APPENDIX A

LIST OF REFERENCES

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(1) Texas Water Development Board: "Chapter 357, Regional Water Planning Guidelines," Austin, October 1999.

(2) Dallas Morning News: *1998-99 Texas Almanac*, Dallas, 1997.

(3) Texas State Data Center: Estimated 1998 Populations for Texas Cities and Counties, [Online], (May 1999), Available URL: http://www.txsdc.tamu.edu/txmsa97.html.

(4) U.S. Census Bureau: 1995 Economic Data, [Online], (May 1999), Available URL: http://www.census.gov./datamap/www/48.html.

(5) Rainfall developed by Freese and Nichols from National Climatic Data Center Weather Data and runoff from http://www.ce.utexas.edu/prof/maidment/gishyd97/library/wbtexas/wbtexas.htm.

(6) Developed by Freese and Nichols from Texas Water Development Board Quadrangle Evaporation Data, [online], (April 1998) at URL: ftp://rio.twdb.state.tx.us/evap_data/.

(7) U.S. Geological Survey: Streamflow Gage Records, [online], (May 1999), Available URL: http://tx.usgs.gov/cgi-bin/txnwis.

(8) Texas Water Development Board GIS Data.

(9) Texas Water Development Board: *Historical and Projected Population and Water Use Data for Regional Planning Groups, Updated Version, 4/26/99, with 1997 Data Included*, published as a CD, Austin, 1999.

(10) Texas Natural Resource Conservation Commission: Water Rights Database, Austin, 1999.

(11) Texas Water Development Board: *Water for Texas, A Consensus-Based Update to the State Water Plan*, Austin, 1997.

(12) Texas Natural Resource Conservation Commission: Water Right Permits and Certificates of Adjudication, Austin, various dates.

(13) Texas Natural Resource Conservation Commission: 1996 Water Use Records, Austin, 1999.

(14) HDR Infrastructure, Inc.: *Yield Studies for Lost Creek Dam And Reservoir Supportive to Water Rights Permit Application*, prepared for City of Jacksboro, Austin, 1986.

(15) Texas Department of Water Resources Report 269: *Occurrence, Availability, and Chemical Quality of Groundwater in the Cretaceous Aquifers of North-Central Texas*, Austin, 1982.

(16) Gunnar Brune: *Springs of Texas, Volume I*, Branch-Smith, Inc., Fort Worth, 1981.

(17) Texas Parks and Wildlife Department: *Evaluation of Selected Natural Resources in Part of the North-Central Texas Area*, Austin, 1999.

(18) Wetland Training Institute, Inc.: *Field Guide for Wetland Delineation*, 1987 U.S. Army Corps of Engineers Manual, Glenwood, NM, WTI91-2, 1991.

(19) Soil Conservation Service: *Hydric Soils of the State of Texas*, published in cooperation with the National Technical Committee for Hydric Soils, U.S. Department of Agriculture, Washington, D.C., 1985.

(20) Texas Parks and Wildlife Department: *A Natural Resource Survey for Proposed Reservoir Sites and Selected Stream Segments in Texas*, Austin, 1991.

(21) Texas Parks and Wildlife Department: Threatened and Endangered Species Listings, [online], (January 2000), Available URL: http://www.tpwd.state.tx.us/nature/endang/endang.htm.

(22) U.S. Fish and Wildlife Service: Listed Species Information Central, [online], (January 2000), Available URL: http://www.endangered.fws.gov/lsppinfo.html.

(23) U.S. Department of Agriculture: 1997 Agricultural Data for Texas Counties, [Online], (May 1999), Available URL: http://www.usda.gov/census/census97/highlights/tx/tx.html.

(24) Natural Resources Conservation Service: National Soil Survey Handbook, title 430-VI, [online], (May 1999), http://www.statlab.iastate.edu/soils/nssh/

(25) Texas Railroad Commission: Maps of Oil and Gas Wells and Fields, [Online], (April 1999), Available URL: http://www.rrc.state.tx.us/divisions/og/activity/oilprod.html.

(26) Texas Center for Policy Studies: *Texas Environmental Almanac*, Austin, 1995.

(27) Texas Natural Resource Conservation Commission Publication SFR-046: *Texas Water Quality, a Summary of River Basin Assessments*, Austin, 1996.

(28) Texas Natural Resource Conservation Commission: *The State of Texas Water Quality Inventory*, [Online], (April 1999), http://www.tnrc.state.tx.us/water/quality/data/wqm/305b_ind.html.

(29) Texas Natural Resource Conservation Commission: *State of Texas 1999 Clean Water Act Section 303(d) List (April 1, 1999)*, Austin, 1999.

(30) U.S. Environmental Protection Agency: *Stage 1 Disinfectants and Disinfection Byproducts Rule*, EPA 815-F-98-010, December 1998.

(31) HDR Engineering, Inc.: *Trinity River Authority SDWA Issues*, prepared for the Trinity River Authority, Austin, November 1995.

(32) Texas Natural Resource Conservation Commission: *The State of Texas Water Quality Inventory*, Austin, 1996.

(33) Texas Water Development Board Report 345: *Aquifers of Texas*, Austin, 1996.

(34) Freese and Nichols, Inc.: *Freestone County Regional Water Supply Study*, prepared for the Trinity River Authority and the Texas Water Development Board, Fort Worth, 1997.

(35) Texas Water Development Board: "Guidelines and Data Requirements for Revisions of the Consensus-Based Population and Water Demand Projections, Senate Bill One," Austin.

(36) North Central Texas Council of Governments: "1999 Current Population Estimates," Arlington, 1999.

(37) Texas Water Development Board: Previous yield estimates developed by the TWDB and provided to Regional Planning Groups, Austin, 1999.

(38) Texas Water Development Board: Previous groundwater availability figures developed by the TWDB and provided to Regional Planning Groups, Austin, 1999.

(39) Freese and Nichols, Inc., and Alan Plummer and Associates, Inc.: *Regional Water Supply Plan, Tarrant County Water Control and Improvement District Number One*, prepared in conjunction with the Texas Water Development Board, Fort Worth, 1990.

(40) Freese and Nichols, Inc.: *Report on Sources of Additional Water Supply*, prepared for Tarrant County Water Control and Improvement District Number One, Fort Worth, 1979.

(41) HDR Engineering, Inc.: *Draft Water Management Plan*, prepared for Tarrant Regional Water District, Austin, March 1999.

(42) Chiang, Patel, and Yerby, Inc.: draft results from ongoing update to Dallas' long range water supply plan provided by Dallas Water Utilities staff, 1999.

(43) Freese and Nichols, Inc., Brown and Root Services, Inc., and LBG-Guyton, Inc: *Comprehensive Sabine Watershed Management Plan*, prepared for the Sabine River Authority and the Texas Water Development Board, Fort Worth, December 1999.

(44) Freese and Nichols, Inc: Computations of Yield for Various Parties in Lake Grapevine, Fort Worth, 1999.

(45) Freese and Nichols, Inc.: *Report on Development of a Surface Water Supply on Fish Creek*, prepared for the City of Gainesville, Fort Worth, 1961.

(46) Dallas and Denton: "Untreated Water Purchase Treatment Contract," August 7, 1985, and Supplemental Agreements 1 and 2.

(47) Texas Water Development Board: *Volumetric Survey of Bardwell Lake,* prepared for U.S. Army Corps of Engineers, Fort Worth District in cooperation with Trinity River Authority, Austin, August 1999.

(48) Forrest and Cotton, Inc.: *Report on Big Brown Creek Dam and Reservoir on Big Brown Creek, Trinity River Basin, Freestone County, Texas;* prepared for presentation at public hearing, Texas Water Rights Commission; prepared for Texas Power and Light Company, Texas Electric Service Company, and Dallas Power and Light Company; Dallas; January 1968.

(49) Texas Water Development Board: Data on Municipal Wastewater Reuse in Texas, [Online], (August 1999), Available URL:http://www.twdb.state.tx.us/conservation/altsource/reuse1.html.

(50) Texas Natural Resource Conservation Commission: Data on authorizations for direct reuse of wastewater, Austin, 1999.

(51) R.J. Brandes Company, Inc.: *Draft Report, Water Availability Modeling for the Sulphur River Basin,* prepared for Texas Natural Resource Conservation Commission, Austin, January 1999.

(52) Telephone Conversation with Wesley Young of R.J. Brandes Company and faxed information on shortages of supply from Lake Chapman, Austin, 1999.

(53) U.S. Army Corps of Engineers Fort Worth District: Basic *Project Information,* Fort Worth, various dates.

(54) Brown and Root Services, Freese and Nichols, Espey-Padden, and Crespo Consultants: *Water Availability Modeling for the Neches River Basin,* prepared for the Texas Natural Resource Conservation Commission, Houston, August 1999.

(55) U.S. Army Corps of Engineers Tulsa District: *A Survey Report and Environmental Impact Statement on the Restudy of Lake Texoma,* Red River, Oklahoma and Texas, Tulsa, January 1981.

(56) Texas Water Development Board: *Exhibit B, Data and Format Guidelines for SB1 Regional Water Plan – Technical Reports,* Austin, 1999.

(57) City of Fort Worth: Information regarding customer contract data, Fort Worth, 1999.

(58) Dallas Water Utilities: Information regarding customer contract data, Dallas, 1999.

(59) Trinity River Authority: Information regarding customer contract data, Arlington, 1999.

(60) Tarrant Regional Water District: Information regarding customer contract data, Fort Worth, 2000.

(61) North Texas Municipal Water District: Information regarding customer contract data, Wylie, 1999.

(62) Dallas Water Utilities: Information regarding permit #5414 and TXU Industrial use, Dallas, 2000.

(63) Freese and Nichols, Inc.: *Preliminary Study of Sources of Additional Water Supply,* prepared for North Texas Municipal Water District, Fort Worth, 1996.

(64) Texas Parks and Wildlife Department, by Roy G. Fry and David A. Curtis: Texas Water and Wildlife - *An Assessment of Direct Impacts to Wildlife Habitat from Future Water Development Projects,* Austin, 1990.

(65) U.S. Fish and Wildlife Service: *Texas Bottomland Hardwood Protection Program*, Albuquerque, 1984.

(66) Espey-Huston Associates, Inc., Alan Plummer Associates, Inc., and Rone Engineering: *Regional Water Study for Ellis County and Southern Dallas County,* prepared for Trinity River Authority in Conjunction with Texas Water Development Board, Austin, 1989.

(67) Burns and McDonnell: *Bedias Project Inventory, Texas, Plan Formulation Working Document*, prepared for the U.S. Bureau of Reclamation, 1989.

(68) Texas Water Development Board, Report GP-5-1: *Water for Texas, Today and Tomorrow - 1990*, Austin, 1990.

(69) Peter W. Mayer, William B. DeOreo, et al.: *Residential End Uses of Water*, Sponsored by American Water Works Association Research Foundation and American Water Works Association, 1999.

(70) Texas Parks and Wildlife Department, Chang Xian Liu, Alison L. Baird, Craig Schofield, and A. Kim Ludcke: *An Analysis of Bottomland Hardwood Areas at Three Proposed Reservoir Sites in Northeast Texas*, prepared for Texas Water Development Board, Austin, 1997.

(71) Turner Collie and Braden, Inc., ECI: Northeast Texas Regional Water Plan Reservoir Site Assessment Study, provided for the North East Texas Regional Water Planning Group - Region D, under contract with Bucker, Willis and Ratliff, Houston, 2000.

(72) Freese and Nichols, Inc.: Work papers entitled "Forest Grove Water Quality," prepared for Texas Utilities Services, Inc., Fort Worth, 1974.

(73) Texas Parks and Wildlife Department, Chad W. Norris and Gordon W. Linam: *Ecologically Significant River and Stream Segments of Region C, Regional Water Planning Area*, Houston/San Marcos, 2000.

(74) Office Memorandum from Bruce Hysmith to Clell Guest, "Ecological Unique Stream Segments D2A," 2000.

APPENDIX B

BIBLIOGRAPHY OF PREVIOUS REGION C WATER PLANS

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(1) Alvord, Burdick and Howson: *Report on Water Supply for Tarrant County*, prepared for the Tarrant County Water Control and Improvement District No. 1, Chicago, July, 1957.

(2) Bauer, J., R. Frye, and B. Spain: *A Natural Resource Survey for Proposed Reservoir Sites and Selected Stream Segments in Texas*, Texas Parks and Wildlife Department, Austin, August, 1991.

(3) Benbrook Water and Sewer Authority: *Emergency Water Demand Management Plan*, includes Water Conservation Plan, Benbrook, September, 1994.

(4) Black and Veatch: *Report on Water Service Policy Considerations*, prepared for the Tarrant County Water Control and Improvement District Number One, Kansas City, October, 1987.

(5) The C.T. Brannon Corporation: *Water Conservation and Drought Contingency Plan – Ongoing Wastewater Collection System Analysis and Water Conservation Plan*, prepared for the City of Italy, Tyler, July, 1993.

(6) Bridgeport, City of: *Water Conservation and Drought Contingency Plans*, prepared for the Texas Water Development Board State Revolving Loan Program, Bridgeport, August, 1990.

(7) Brown, Linda: "Texas Supreme Court to hear Rohr Springs water rights case," *Van Zandt News*, August 29, 1998.

(8) Carter and Burgess, Inc.: *Iron Bridge Pump Station Design Report- Draft*, prepared for the City of Dallas, June, 1998.

(9) Cates, Johnston and Associates: *Water Conservation Plan*, includes Drought Contingency Plan, prepared for Rose Hill Water Supply Corporation, Dallas, December, 1987.

(10) Cates, Johnston and Associates: *Water Conservation Plan*, includes Drought Contingency Plan, prepared for College Mound Water Supply Corporation, Dallas, January, 1988.

(11) Cates, Johnston and Associates: *Water Conservation Plan*, includes Drought Contingency Plan, prepared for Gastonia-Scurry Water Supply Corporation, Dallas, February, 1988.

(12) CH2M Hill: *Long-Range Water Demand Forecasts, Dallas Water Utilities Service Area*, August, 1984.

(13) CH2M Hill: *Preliminary Engineering Design for a Lake Texoma Surface Water Supply System*, prepared for the Greater Texoma Utility Authority, Dallas, January, 1986.

(14) CH2M Hill: *Draft of Reverse Osmosis and Electrodialysis Performance Results: Lake Texoma Pilot Test Program*, prepared for the Greater Texoma Utility Authority, Dallas, September, 1987.

(15) CH2M Hill: *DWU Reclaimed Water Study*, August, 1993.

(16) The Colony, City of: *Water Conservation and Drought Contingency Plans*, prepared for Texas Water Development Board State Revolving Loan Program, The Colony, August, 1990.

(17) Dallas Water Utilities: *Survey of the Elm Fork of the Trinity River Watershed from Lewisville and Grapevine Lakes to Frazier Dam*, February, 1985.

(18) Dannenbaum Engineering Corp. and Gutierrez, Smouse, Wilmut & Associates, Inc.: *Lake Palestine, Dallas Water Utilities, Utilization and Pipeline Right of Way Study*, June, 1989.

(19) Davis, J. R.: *Analysis of Fish Kills and Associated Water Quality Conditions in the Trinity River, Texas-Assessment of Biotic Integrity*, Texas Water Commission Report LP-91-03, Austin, 1991.

(20) El-Hage, A., D.W. Moulton, and P.D. Sorensen: *Evaluation of Selected Natural Resources in Part of the North-Central Texas Area*, Texas Parks and Wildlife Department, Austin, February, 1999.

(21) Engineering Advisory Committee to the Red River Compact Commission: *Report of the Engineering Advisory Committee to the Red River Compact Commission*, June, 1970.

(22) Espey, Huston & Associates, Inc.: *Trinity River Yield Study Phase I: Data Collection and Methodology Review*, Houston, August, 1982.

(23) Espey, Huston & Associates, Inc.: *Trinity River Yield Study Phase II: Streamflow Data Manipulations and Basin Model Review*, Houston, January, 1984.

(24) Espey, Huston & Associates, Inc.: *Lake Fork Reservoir Yield Determination*, 1985.

(25) Espey, Huston & Associates, Inc.: *Lake Tawakoni Yield Determination*, 1985.

(26) Espey, Huston & Associates, Inc.: *Trinity River Yield Study Phase III: Yield Analysis*, Houston, September, 1986.

(27) Espey, Huston & Associates, Inc.: *Long-Range Water Plan Park Cities*, October, 1987.

(28) Espey, Huston & Associates, Inc., Chiang, Patel and Associates, Inc., and Hutchison, Price, Boyle and Brooks: *Denton County Water and Wastewater Study Regional Master Plan for the Year 2010*, prepared for the Denton County Commissioners Court, Dallas, March, 1988.

(29) Espey, Huston & Associates, Inc., Alan Plummer and Associates, Inc., and Rone Engineers: *Regional Water Study for Ellis County and Southern Dallas County*,

prepared for the Trinity River Authority and the Texas Water Development Board, September, 1989.

(30) Espey, Huston & Associates, Inc., and Alan Plummer Associates, Inc.: *Ellis County Regional Water Plan, Preliminary Engineering Report*, prepared for the Trinity River Authority and the Texas Water Development Board, 1993.

(31) Espey, Huston & Associates, Inc., and Tudor Engineering Company: *Report on Update of the Master Plan for Sabine River and Tributaries in Texas*, three volumes, prepared for the Sabine River Authority of Texas, Austin, March, 1985.

(32) Federal Bureau of Reclamation: *Lake Livingston Sediment Resurvey*, 1991.

(33) Forrest and Cotton, Inc.: *Report on Water Supply*, prepared for the City of Arlington, Dallas, August, 1958.

(34) Forrest and Cotton, Inc.: *Report on Long-Range Water Supply*, prepared for the City of Dallas, Dallas, January, 1959.

(35) Forrest and Cotton, Inc.: *Report on Water and Sanitary Sewage Systems*, prepared for the City of Irving, Dallas, June, 1962.

(36) Forrest and Cotton, Inc.: *Report on Water Supply, Treatment and Transmission Facilities to Meet Estimated 1980 Demands*, prepared for the North Texas Municipal Water District, Dallas, July, 1964.

(37) Forrest and Cotton, Inc.: *Report on Water Supply, Consumption and Proposed Improvements*, prepared for the North Texas Municipal Water District, Dallas, November, 1968.

(38) Forrest and Cotton, Inc.: *Sherman-Denison Metropolitan Area Regional Planning-Regional Water Supply*, prepared for the City of Sherman, Dallas, September, 1969.

(39) Forrest and Cotton, Inc.: *Water Quality Monitoring Plan Upper Trinity River Basin*, prepared for the North Central Texas Council of Governments, Dallas, 1970.

(40) Forrest and Cotton, Inc.: *Water Service to Irving*, prepared for the City of Irving and the North Texas Municipal Water District, Dallas, 1971.

(41) Forrest and Cotton, Inc.: *Report on Long Range Water Supply*, prepared for the North Texas Municipal Water District, Dallas, 1974.

(42) Forrest and Cotton, Inc.: *Report on Choctaw Creek Dam and Reservoir as a Surface Water Supply*, prepared for the City of Sherman, Dallas, August, 1985.

(43) Fort Worth Water Department: *Summary of Water Supply Projects*, prepared for the City of Fort Worth, Fort Worth, November, 1963.

(44) Fort Worth Water Department: *Water Conservation and Drought Contingency Plan*, 1989.

(45) Fort Worth Water Department: *Draft Water Conservation and Emergency Water Demand Management Plan*, prepared for the Texas Water Development Board, Fort Worth, October, 1992.

(46) Freese and Nichols, Inc.: *Engineering Report on Feasibility of Lake Texoma as Water Supply*, prepared for the City of Sherman, Fort Worth, 1946.

(47) Freese and Nichols, Inc.: *Supplement to Water Supply Report*, prepared for the City of Jacksboro, Fort Worth, 1947.

(48) Freese and Nichols, Inc.: *Water Supply Report*, prepared for the City of Jacksboro, Fort Worth, 1947.

(49) Freese and Nichols, Inc.: *Water Works System - Richland Hills Addition*, prepared for Baker Brothers, Fort Worth, August, 1947.

(50) Freese and Nichols, Inc.: *Water Works System - Richland Hills Addition*, prepared for Baker Brothers, Fort Worth, May, 1950.

(51) Freese and Nichols, Inc.: *Report on Water Supply*, prepared for the City of Denton, Fort Worth, October, 1950.

(52) Freese and Nichols, Inc.: *Water Works and Sanitary Sewerage System*, prepared for the City of Grapevine, Fort Worth, September, 1953.

(53) Freese and Nichols, Inc.: *Report on Water Supply and Water System Improvements*, prepared for the City of Arlington, prepared in Fort Worth, June, 1954.

(54) Freese and Nichols, Inc.: *Study and Report of Sanitary Sewer System Facilities to Serve Areas Adjacent to Richland Hills*, prepared for Smithfield Water Co., Fort Worth, August, 1954.

(55) Freese and Nichols, Inc.: *Report on Water Supply*, prepared for the City of Denton, Fort Worth, September, 1954.

(56) Freese and Nichols, Inc.: *Study and Report of Sanitary Sewer System, Richland Hills-Hurst Area*, prepared for Smithfield Water Co., Fort Worth, February, 1955.

(57) Freese and Nichols, Inc.: *Tentative Findings and Recommendations of Report on Water Supply for Fort Worth and Tarrant County*, prepared for the City of Fort Worth, Fort Worth, September, 1956.

(58) Freese and Nichols, Inc.: *Engineering Report on Lake Texoma as a Supplemental Water Supply*, prepared for the City of Sherman, Fort Worth, January, 1957.

(59) Freese and Nichols, Inc.: *Report on Water Supply for Fort Worth and Tarrant County*, two volumes, prepared for the City of Fort Worth and the Tarrant County Water Control and Improvement District Number One, Fort Worth, May, 1957.

(60) Freese and Nichols, Inc.: *Report on Water Supply and Street Improvements (Revised)*, prepared for the City of Grapevine, Fort Worth, March, 1958.

(61) Freese and Nichols, Inc.: *Report on Water Supply for Fort Worth and Tarrant County*, four volumes including Revisions and Supplemental Appendices, prepared for the City of Fort Worth and the Tarrant County Water Control and Improvement District Number One, Fort Worth, 1959.

(62) Freese and Nichols, Inc.: *Report on Development of a Surface Water Supply on Fish Creek*, prepared for the City of Gainesville, Fort Worth, October, 1961.

(63) Freese and Nichols, Inc.: *Report on Water Supply Investigations*, prepared for the City of Richland Hills, Fort Worth, February, 1963.

(64) Freese and Nichols, Inc.: *Inventory of Water Related Systems and Facilities*, prepared for the North Central Texas Council of Governments, Fort Worth, 1968.

(65) Freese and Nichols, Inc.: *Report on Sewage Facilities to Serve Big Bear Creek Watershed*, prepared for the City of Grapevine, Fort Worth, June, 1968.

(66) Freese and Nichols, Inc.: *Report on Sewage Treatment Facilities*, prepared for the City of Grapevine, Fort Worth, June, 1968.

(67) Freese and Nichols, Inc.: *Comprehensive Water and Sewerage Planning*, prepared for the Kaufman County Planning Commission, Fort Worth, October, 1969.

(68) Freese and Nichols, Inc.: *Upper Trinity River Basin, Comprehensive Sewerage Plan*, four volumes, prepared for the North Central Texas Council of Governments, 1970.

(69) Freese and Nichols, Inc.: *Report on Long Range Water Supply*, prepared for the City of Garland, Fort Worth, February, 1970.

(70) Freese and Nichols, Inc.: *Comprehensive Sewerage Plan and Water Quality Study in Montague, Cooke, Grayson Counties*, prepared for the Red River Authority and the Texoma Regional Planning Commission, Fort Worth, November, 1970.

(71) Freese and Nichols, Inc.: *Report on Cooling Water Sources and Power Plant Sites*, prepared for Texas Utilities Services Inc., Fort Worth, 1973.

(72) Freese and Nichols, Inc.: *Report on Water Supply System*, prepared for the City of Denton, Fort Worth, July, 1974.

(73) Freese and Nichols, Inc.: *Report on Long-Range Water Supply*, prepared for the City of Denton, Fort Worth, 1975.

(74) Freese and Nichols, Inc.: *Report on Water Supply System*, prepared for the City of Denton, Fort Worth, 1975.

(75) Freese and Nichols, Inc.: *Engineering Report to Accompany Application for Certificates of Convenience and Necessity Water and Sewer*, prepared for the City of Denton, Fort Worth, July, 1976.

(76) Freese and Nichols, Inc.: *Basic Perspective on the Water Resource Potential for the Cypress Creek Basin*, prepared for the Northeast Texas Municipal Water District, Fort Worth, August, 1977.

(77) Freese and Nichols, Inc.: *Study of Additional Surface Water Supply, Phase I Report*, prepared for the City of Wichita Falls, Texas and Texas Electric Service Company, Fort Worth, 1979.

(78) Freese and Nichols, Inc.: *Report on Sources of Additional Water Supply*, prepared for the Tarrant County Water Control and Improvement District Number One, Fort Worth, March, 1979.

(79) Freese and Nichols, Inc.: *Fort Worth 1978 Water Distribution Study*, three volumes, prepared for the City of Fort Worth, Fort Worth, April, 1979.

(80) Freese and Nichols, Inc.: *Study of Potential Sources of Additional Surface Water Supply in the Red River Basin and the Cypress Creek Basin*, prepared for the North Texas Municipal Water District, Fort Worth, September, 1979.

(81) Freese and Nichols, Inc.: *Evaluation of Alternative Water Supply Sources (Draft)*, prepared for the City of Denton, Fort Worth, March, 1980.

(82) Freese and Nichols, Inc.: *Study of Additional Surface Water Supply, Phase II, Engineering Report on Ringgold Reservoir*, prepared for the City of Wichita Falls, Texas and Texas Electric Service Company, Fort Worth, 1981.

(83) Freese and Nichols, Inc.: *Report on Long-Range Water Supply*, prepared for the City of Denton, Fort Worth, June, 1982.

(84) Freese and Nichols, Inc.: *Groundwater Monitoring Plan-Kaufman Division*, prepared for Falcon Steel Company Kaufman Division, Fort Worth, May, 1983.

(85) Freese and Nichols, Inc.: *Engineering Report on New Bonham Reservoir*, prepared for the North Texas Municipal Water District and the Red River Authority, Fort Worth, January, 1984.

(86) Freese and Nichols, Inc.: *Summary of Water Supply Reports*, prepared for the North Texas Municipal Water District, Fort Worth, March, 1985.

(87) Freese and Nichols, Inc.: *Wastewater Collection System Master Plan*, prepared for the City of Denton, Fort Worth, July, 1985.

(88) Freese and Nichols, Inc.: *Upper Sabine Basin Regional Water Supply Plan*, prepared for the Sabine River Authority of Texas, Fort Worth, May, 1986.

(89) Freese and Nichols, Inc.: *Engineering Report on South Bend Reservoir (Draft)*, prepared for the Brazos River Authority, Fort Worth, July, 1987.

(90) Freese and Nichols, Inc.: *Conservation and Drought Contingency Plan*, prepared for the Tarrant County Water Control and Improvement District Number One, Fort Worth, October, 1987.

(91) Freese and Nichols, Inc.: *Feasibility Report on the Belzora Landing Dam and Reservoir*, prepared for the Sabine River Authority of Texas, Fort Worth, May, 1988.

(92) Freese and Nichols, Inc.: *Supplemental Memorandum Report on the Use of Lake Benbrook for Regulating Storage,* prepared for the Tarrant County Water Control and Improvement District Number One, Fort Worth, August, 1988.

(93) Freese and Nichols, Inc.: *City of Grand Prairie, Texas, Long Range Water Supply Plan,* prepared for the City of Grand Prairie, Fort Worth, August, 1988.

(94) Freese and Nichols, Inc.: *Wastewater Master Plan,* prepared for the City of Grand Prairie, Fort Worth, August, 1988.

(95) Freese and Nichols, Inc.: *Lake Bridgeport-Eagle Mountain Lake Sedimentation Survey,* Fort Worth, December, 1988.

(96) Freese and Nichols, Inc.: *Wastewater Treatment Facilities Master Plan*, prepared for the City of Denton, Fort Worth, December, 1989.

(97) Freese and Nichols, Inc.: Memorandum Report on Model Studies of Energy Cost for Raw Water Pumping, prepared for the Tarrant County Water Control and Improvement District Number One, Fort Worth, February, 1990.

(98) Freese and Nichols, Inc.: *Cooper Lake Water Transmission System: Raw Water Pipeline Route Study Cooper Lake to Lake Lavon,* prepared for the City of Irving and North Texas Municipal Water District, Fort Worth, October, 1990.

(99) Freese and Nichols, Inc.: *Water Supply for the Superconducting Super Collider*, prepared for the Texas National Research Laboratory Commission, Fort Worth, 1991.

(100) Freese and Nichols, Inc.: *Memorandum Report on Operating Policy for Pumping from Lake Texoma*, prepared for the North Texas Municipal Water District, Fort Worth, November, 1991.

(101) Freese and Nichols, Inc.: *Preliminary Study of Sources of Additional Water Supply,* prepared for the North Texas Municipal Water District, Fort Worth, May, 1996.

(102) Freese and Nichols, Inc.: *Response to Request for Proposals for Regional Water Supply Planning (TRD #9605689) Submitted to the Texas Water Development Board*, prepared for the City of Terrell and participating Water Supply Corp., Fort Worth, July, 1996.

(103) Freese and Nichols, Inc.: *Freestone County Regional Water Supply Study. Participants: Cities of Fairfield, Teague, Streetman, Wortham, Pleasant Grove; and the Texas Department of Criminal Justice Boyd Prison Unit*, prepared for the Trinity River Authority and the Texas Water Development Board, Fort Worth, September, 1997.

(104) Freese and Nichols, Inc.: *Memorandum to File: Review of Proposed Lake Lewisville Pass-Through Agreement between Upper Trinity Regional Water District and City of Denton*, prepared for the City of Denton, Fort Worth, May, 1998.

(105) Freese and Nichols, Inc., and James M. Montgomery Engineers, Inc.: *Lake Ray Roberts Water Treatment Plant, Final Preliminary Report*, prepared for the City of Denton, Fort Worth, November, 1989.

(106) Freese and Nichols, Inc., and Alan Plummer and Associates, Inc.: *Environmental Effects of the Texoma Diversion Project*, prepared for the North Texas Municipal Water District and the Greater Texoma Utility Authority, Fort Worth, 1986.

(107) Freese and Nichols, Inc., and Alan Plummer and Associates, Inc.: *Regional Water Supply Study Water Reuse Tour*, prepared for the Tarrant County Water Control and Improvement District Number One, Fort Worth, September, 1989.

(108) Freese and Nichols, Inc., and Alan Plummer and Associates, Inc.: *Regional Water Supply Plan, Vols. 1-2*, prepared for the Tarrant County Water Control and Improvement District Number One and the Texas Water Development Board, Fort Worth, October, 1990.

(109) Freese and Nichols, Inc., and Red River Authority: *Lake Texoma Septic Tank Study, Interim Report: Inventory of Existing Conditions*, prepared for the Texas Department of Water Resources, Fort Worth, February, 1981.

(110) Freese and Nichols, Inc., and Red River Authority: *Lake Texoma Septic Tank Study, Interim Report: Existing and Potential Septic Tank Problem Areas*, prepared for the Texas Department of Water Resources, Fort Worth, October, 1981.

(111) Freese and Nichols, Inc., and Red River Authority: *Lake Texoma Septic Tank Study, Interim Report: Identification and Impact Assessment of Wastewater Treatment Alternatives*, prepared for the Texas Department of Water Resources, Fort Worth, March, 1982.

(112) Freese and Nichols, Inc., and Red River Authority: *Summary Report Lake Texoma Septic Tank Study Red River Basin*, prepared for the Texas Department of Water Resources, Fort Worth, June, 1983.

(113) Freese and Nichols, Inc., and URS/Forrest and Cotton, Inc.: *North Central Texas Regional Water Supply Study*, prepared for the North Central Texas Council of Governments, Trinity River Authority, North Texas Municipal Water District, Tarrant County Water Control and Improvement District No. 1, and the Cities of Dallas, Denton, and Fort Worth, prepared in Fort Worth and Dallas, November, 1974.

(114) Freese, Nichols and Endress, Inc.: *Interim Report on Water and Sanitary Sewerage Facilities*, prepared for the City of Denton, Fort Worth, November, 1959.

(115) Freese, Nichols and Endress, Inc.: *Revised Interim Report on Water and Sanitary Sewerage Facilities*, prepared for the City of Denton, Fort Worth, December, 1959.

(116) Freese, Nichols and Endress, Inc.: *Report on Water Supply Service Throughout Tarrant County, Part A*, prepared for the Tarrant County Water Control and Improvement District Number One, Fort Worth, June, 1960.

(117) Freese, Nichols and Endress, Inc.: *Water Supply Facilities*, prepared for the City of Corsicana, Fort Worth, February, 1963.

(118) Freese, Nichols and Endress, Inc.: *Report on Water Supply Investigations*, prepared for the City of Richland Hills, Fort Worth, February, 1963.

(119) Freese, Nichols and Endress, Inc.: *Denton Water System Study*, prepared for the City of Denton, Fort Worth, December, 1965.

(120) Freese, Nichols and Endress, Inc.: *Supplemental Investigation- Water Supply Study*, prepared for the City of Denton, Fort Worth, October, 1966.

(121) Freese, Nichols and Endress, Inc.: *Water Supply Study*, prepared for the City of Grapevine, Fort Worth, August, 1970.

(122) Freese, Nichols and Endress, Inc.: *Comprehensive Sewerage Plan and Water Quality Study in Montague, Cooke, Grayson Counties, Appendix*, prepared for the Red River Authority of Texas and the Texoma Regional Planning Commission, Fort Worth, November, 1970.

(123) Freese, Nichols and Endress, Inc.: Northwest Grapevine Sewage Study, prepared for the City of Grapevine, Fort Worth, March, 1971.

(124) Freese, Nichols and Endress, Inc.: *Report on Water System Improvements*, prepared for the City of Richland Hills, Fort Worth, March, 1972.

(125) Freese, Nichols and Endress, Inc.: *Comprehensive Water and Sewerage Planning-Grayson County*, prepared for the Texoma Regional Planning Commission, Fort Worth, May, 1972.

(126) Freese, Nichols and Endress, Inc., and Caldwell and Caldwell: *Comprehensive Plan 1960-1985, Phase 4, Water, Sewage, Drainage*, prepared for the City of Denton, Fort Worth, 1959.

(127) Freese, Nichols and Endress, Inc., and Rady and Associates, Inc.: *Comprehensive Water and Sewer Plan*, prepared for the Wise County Planning Commission, Fort Worth, December, 1969.

(128) Fretwell, J. D., J.S. Williams, and P.J. Redman: *National Water Summary on Wetland Resources*, USGS Water-Supply Paper 2425, 1996.

(129) Frye, R.G. and D.A. Curtis: *Texas Water and Wildlife: An Assessment of Direct Impacts to Wildlife Habitat from Future Water Development Projects*, Texas Parks and Wildlife Department Publication PWD-BK-7108-147-5/90, Austin, May, 1990.

(130) Gilbert, C.R., B.N. Myers, E.R. Leggat, C.T. Welborn and U.S. Geological Survey: *Hydrologic Studies of Small Watersheds, Elm Fork Trinity River Basin, Montague and Cooke Counties, Texas 1956-60*, December, 1962.

(131) Graham Associates: *Phase 2 Design Report on Raw Water Transmission Facilities from Lake Fork Reservoir to Lake Tawakoni*, May, 1984.

(132) Graham Associates: *Phase 1 Engineering Report on Raw Water Transmission Facilities from Lake Fork Reservoir to Lake Tawakoni*, prepared for the City of Dallas, May, 1984.

(133) Greater Texoma Utility Authority and the City of Gainesville: *Water Conservation and Emergency Water Demand Management Plan*, prepared for the Texas Water Development Board, January, 1995.

(134) W.F. Guyton and Associates, Inc.: *Groundwater Conditions in Anderson, Cherokee, Freestone, and Henderson Counties, Texas*, prepared for the Texas Water Development Board, Houston and Austin, August, 1972.

(135) William F. Guyton and Associates, Inc.: *Letter Memorandum on Availability of Groundwater for Proposed Superconducting Super Collider Facility near Waxahachie, Texas*, prepared for the Texas National Research Laboratory Commission, Austin, June, 1987.

(136) Hardin, R.W.: *Occurrence of Groundwater in the Trinity Group Near Gainesville, Cooke County, Texas, Report of Preliminary Investigation*, prepared for the Texas Water Development Board, October, 1960.

(137) Hartwell Engineers: *Water Conservation and Drought Contingency Report*, prepared for the City of Celina, Celina, May, 1987.

(138) Hawley and Freese: *Report on Investigation for a Water Supply and Flood Control*, prepared for the Tarrant County Water Control and Improvement District Number One, June, 1927.

(139) HDR Engineering, Inc.: *Trinity River Authority SDWA Issues*, prepared for the Trinity River Authority, Austin, November, 1995.

(140) HDR Engineering, Inc.: *Water Conservation and Emergency Demand Management Plan*, prepared for the Tarrant Regional Water District, 1997.

(141) HDR Engineering, Inc., and Alan Plummer Associates, Inc.: *Water Management Plan*, interim review draft, prepared for the Tarrant Regional Water District, August, 1998.

(142) HDR Infrastructure, Inc.: *Yield Studies for Lost Creek Dam and Reservoir Supportive to Water Rights Permit Application*, prepared for the City of Jackboro, Dallas, May, 1986.

(143) Henningson, Durham and Richardson and the North Central Texas Council of Governments: *Joint County, Cities Resource Recovery Project for Tarrant County, the City of Arlington, and the City of Fort Worth*, prepared for Tarrant County, City of Arlington and City of Fort Worth, prepared in Dallas, June, 1980.

(144) Hogan and Rasor, Inc.: *Water Distribution System Study*, prepared for the City of Denton, Dallas, May, 1981.

(145) Hogan and Rasor, Inc.: *Water Supply and Distribution Study*, prepared for the City of Gainesville, Dallas, June, 1981.

(146) Hogan and Rasor, Inc.: *Draft of Proposed Water Distribution System: Flow Analysis, Preliminary Report*, prepared for the City of Denton, Dallas, March, 1983.

(147) Hogan and Rasor, Inc.: *Water Distribution System Flow Analysis for Alternative Water Supply sources*, prepared for the City of Denton, Dallas, July, 1983.

(148) Hogan and Rasor, Inc.: *Proposed Wastewater System Improvements Muddy Creek Drainage Area in the Texas Counties of Dallas and Collin*, Dallas, March, 1990.

(149) Horner and Shifrin: *The Boyd Project- Present Status for Flood Control and Water Supply to Serve Fort Worth (Review of Prior Studies)*, prepared for the City of Fort Worth, St. Louis, March, 1960.

(150) Homer Hunter and Associates, Inc.: *Groundwater Supply Study for the City of Grand Prairie*, prepared for the City of Grand Prairie, Dallas, September, 1964.

(151) Hunter Associates, Inc.: *Water Distribution System Analysis, Vols. 1-2*, prepared for the City of Grand Prairie, Dallas, 1976.

(152) Hunter Associates, Inc.: *Water Conservation and Drought Contingency Plan*, prepared for the City of Runaway Bay, Dallas, February, 1988.

(153) Irving, City of: *Cooper Reservoir Water Supply Study*, 1985 and 1986.

(154) Irwin, R. J.: *Impacts of Toxic Chemicals on Trinity River Fish and Wildlife*, prepared for the U.S. Fish and Wildlife Service, Fort Worth, November, 1988.

(155) Jacksboro, City of: *Water Conservation and Drought Contingency Plans*, Jacksboro, June, 1988.

(156) Kindle, Stone & Associates, Inc.: *Richland-Chambers Reservoir: Impact Study*, prepared for the Tarrant County Water Control and Improvement District Number One, Longview, 1985.

(157) Kindle, Stone & Associates, Inc.: *Preliminary Engineering Report for Little Cypress Reservoir*, prepared for the Little Cypress Utility District, Longview, February, 1986.

(158) Knowlton, English, and Flowers, Inc.: *Tarrant County Water Project, Master Plan Modification to Serve Bedford, Euless, Colleyville, Grapevine and North Richland Hills*, prepared for the Trinity River Authority, Fort Worth, October, 1976.

(159) Knowlton, English, and Flowers, Inc.: *Water Distribution System Analysis*, two volumes, prepared for the City of Grand Prairie, May, 1980.

(160) Knowlton, Ratliff, English and Collins: *Report to the Cities of Bedford and Euless on Feasibility of Water Purchase from Tarrant County Water Control and Improvement District Number One out of Lake Arlington*, prepared for the Cities of Bedford and Euless, 1969.

(161) KSA Engineers, Inc.: *Wortham Water Supply Alternatives*, 1996.

(162) KSA Engineers, Inc.: *Water Conservation and Emergency Water Demand Management Plan*, prepared for the City of Wortham, Lufkin, July, 1998.

(163) Lake Worth, City of: *Water Conservation and Emergency Water Demand Management Plan*, Lake Worth, February, 1994.

(164) Land, L.F.: *National Water Quality Assessment Program – The Trinity River Basin*, USGS Open-File Report 91-158, 1991.

(165) Land, L.F.: *Water-Quality Assessment of the Trinity River Basin, Texas -- Data Collection 1992-1995*, USGS Fact Sheet 95-090, 1995.

(166) Land, L.F.: *Water-Quality Assessment of the Trinity River Basin, Texas: Nutrients in Streams Draining an Agricultural and an Urban Area*, USGS Fact Sheet 96-322, 1996.

(167) Land, L.F.: *Water-Quality Assessment of the Trinity River Basin, Texas: Pesticides in Urban and Agricultural Streams, 1993-1995*, USGS Fact Sheet 96-178, 1996.

(168) Land, L.F.: *Water-Quality Assessment of the Trinity River Basin, Texas: Nutrients and Pesticides in the Watersheds of Richland and Chambers Creeks, 1993-1995*, USGS Water Resources Investigation Report 97-4132, 1997.

(169) Land, L.F. et al: *Water Quality in the Trinity River Basin, Texas, 1992-1995*, USGS Circular 1171, 1998.

(170) Land, L.F. and M.F. Brown: *Water-Quality Assessment of the Trinity River Basin, Texas: Pesticides in Streams Draining an Urban and an Agricultural Area, 1993-1995*, USGS Water Resources Investigation Report 96-4114, 1996.

(171) Jerry W. Lands, Inc.: *Water Conservation Plan*, prepared for Walnut Creek Water Supply Corporation, Dallas, January, 1988.

(172) Leibbrand, N.F.: *Water Quality of Cedar Creek Reservoir in Northeast Texas, 1977-1984*, USGS Technical Report, 1987.

(173) Little Elm, Town of: *Little Elm Project: Texas Water Plan Water Conservation and Drought Contingency Plan*, prepared for the Texas Water Development Board, Little Elm, March, 1991.

(174) Liu, C., A.L. Baird, C. Scofield, and A.K. Ludeke: *An Analysis of Bottomland Hardwood Areas at Three Proposed Reservoir Sites in Northeast Texas*, Texas Parks and Wildlife Department, Austin, 1997.

(175) Lockwood and Andrews: *Report on Emergency Water Supply*, prepared for the City of Dallas, Houston, February, 1953.

(176) Nagle, J.C. and R.A. Thompson: *Report of Investigations for an additional Water Supply for the City of Dallas, Texas*, prepared for the City of Dallas, January, 1924.

(177) National Weather Service: *Disastrous Floods on the Trinity, Brazos, Colorado, and Guadalupe Rivers*, 1995.

(178) The Nelson Corporation: *Water Conservation and Drought Contingency Plan*, prepared for the City of Crandall, Dallas, November, 1989.

(179) Nordstrom, P.L. and the Texas Department of Water Resources: *Occurrence, Availability, and Chemical Quality of Groundwater in the Cretaceous Aquifers of North-Central Texas*, Report 269, Austin, 1982.

(180) Nordstrom, P.L. and the Texas Water Development Board: *Occurrence and Quality of Groundwater in Jack County, Texas*, Report 308, Austin, August, 1988.

(181) North Central Texas Council of Governments: *Summary of Regional Sewerage Systems, East Fork of Trinity River*, Arlington, 1973.

(182) North Central Texas Council of Governments: *Trinity River Water Quality*, Arlington, 1981.

(183) North Central Texas Council of Governments: *Draft 1998 Annual Water Quality Management Plan of North Central Texas*, Arlington, 1998.

(184) North Richland Hills, City of: *Water Conservation and Emergency Water Demand Management Plan*, North Richland Hills, March, 1994.

(185) North Texas State University: *Water Quality Study, Lake Texoma, 2nd Annual Report*, prepared for the U.S. Army Corps of Engineers, Tulsa District, Denton, February, 1977.

(186) North Texas State University: *Water Quality Study, Lake Texoma, Red River, Texas and Oklahoma*, prepared for the U.S. Army Corps of Engineers, Tulsa District, Denton, February, 1977.

(187) Ovilla, City of: *Water Conservation Plan*, prepared for Texas Water Development Board, Ovilla, October, 1991.

(188) Peat, Marwick, and Mitchell: *Analysis of Water Service Area City of Dallas*, May, 1980.

(189) Alan Plummer and Associates, Inc.: *Reconnaissance Study of Wastewater Reuse for Irrigation at Las Colinas*, prepared for Southland Real Estate Resources, Inc., Arlington, October, 1980.

(190) Alan Plummer and Associates, Inc.: *Feasibility Study of Wastewater Reuse for Irrigation at Las Colinas*, Arlington, July, 1981.

(191) Alan Plummer and Associates, Inc.: Trinity River Fish Kills Mitigation Study, prepared for the Trinity River Authority, Arlington, 1986.

(192) Alan Plummer and Associates, Inc.: *Draft of Lake Lavon Water Quality Assessment Program*, prepared for the North Texas Municipal Water District, Arlington, June, 1989.

(193) Alan Plummer and Associates, Inc.: *Regional Assessment of Water Quality, Trinity River Basin*, prepared for the Trinity River Authority, 1992.

(194) Alan Plummer and Associates, Inc.: *Water Conservation and Emergency Water Demand Management Plan for the Proposed Rehabilitation and Expansion of the Wastewater Treatment Plant*, prepared for the City of Kaufman, Fort Worth, March, 1993.

(195) Alan Plummer Associates, Inc.: *Northeast Tarrant County Regional Water Supply Planning Report*, prepared for the Fort Worth Water Department, January, 1995.

(196) Prosper, City of: *Water Conservation and Emergency Water Demand Plan*, Prosper, May, 1996.

(197) Rady and Associates, Inc.: *Engineering Report for the City of Grand Prairie, Texas, Covering Potential Sources of Water Supply*, prepared for the City of Grand Prairie, Fort Worth, August, 1964.

(198) Joe J. Rady and Company: *Preliminary Report Water Supply and Treatment Facilities: Clear Fork Project*, prepared for the City of Weatherford, Fort Worth, 1954.

(199) Donald G. Rauschuber and Associates, Inc.: *Water Conservation and Drought Contingency Plan*, prepared for the City of Argyle, submitted to Texas Water Development Board, Austin, September, 1993.

(200) Red River Compact Commission: *Red River Compact with Supplemental Comments of Legal Advisory Committee*, September, 1979.

(201) Sabine River Authority: *Comprehensive Sabine Watershed Management Plan*, 1985.

(202) Sanger, City of: *Water Conservation and Drought Contingency Plan*, prepared for TNRCC, Sanger, 1996.

(203) I.W. Santry, Inc.: *Rural Water and Sewer Plan for Denton County, Preliminary Report*, prepared for the North Central Texas Council of Governments, Dallas, 1973.

(204) I.W. Santry, Inc.: *Rural Water and Sewer Plan for Collin County, Preliminary Report*, prepared for the North Central Texas Council of Governments, Dallas, 1974.

(205) I.W. Santry, Inc.: *Denton County Rural Water and Wastewater Plan*, Dallas, 1975.

(206) I.W. Santry, Inc.: *Rural Water and Sewer Plan for Ellis County*, prepared for the North Central Texas Council of Governments, Dallas, 1975.

(207) I.W. Santry, Inc.: *Rural Water and Sewer Plan for Denton County*, prepared for the North Central Texas Council of Governments, Dallas, January, 1975.

(208) I.W. Santry, Inc.: *Rural Water and Sewer Plan for Collin County*, prepared for the North Central Texas Council of Governments, Dallas, January, 1975.

(209) Schrickel, Rollins and Associates, Inc.: *Preliminary Interim Report Lake Joe Pool-Peninsula Water and Sewer Study for the City of Grand Prairie*, prepared for the City of Grand Prairie, Arlington, 1986.

(210) Shawn Engineering/Environmental Corp., O'Brien Engineering and Eichert Engineering: *Flood Protection for the West Fork of the Trinity River above Eagle Mountain Lake: Executive Summary, Draft Report*, June, 1993.

(211) Shimek, Jacobs and Finklea: *Report on Supplemental Water Supply from Pat Mayse Reservoir and Proposed Big Pine Reservoir*, prepared for the North Texas Municipal Water District, Dallas, September, 1979.

(212) Smoth, S. A. and G. Kirke: "Development of Tucson Metropolitan Wastewater Reuse Program," *Proceedings of the Water Reuse Symposium*, Volume 1, American Water Works Association Research Foundation, Denver, August, 1984.

(213) State Board of Water Engineers: *Record of Wells, Henderson County, Texas*, prepared for Henderson County, September, 1936.

(214) Stephens, V.: *Preliminary Studies Water Supply Northeast-Central Tarrant County Municipalities*, prepared for the City of Fort Worth, 1960.

(215) Stephens, V. with Municipal Advisory Services: *A Report for the Wise County Water Control and Improvement District Number One*, prepared for the Wise County Water Control and Improvement District Number One, Fort Worth, July, 1965.

(216) Stramel, G.J.: *Groundwater Resources of Parker County, Texas*, prepared for the Texas Board of Water Engineers, November, 1951.

(217) Teague Nall and Perkins Consulting Engineers, Inc.: *Water Conservation and Emergency Water Demand Management Plan*, prepared for the City of Colleyville, Fort Worth, May, 1994.

(218) Teague Nall and Perkins Consulting Engineers, Inc.: *Water Distribution System Master Plan*, prepared for the City of Weatherford Municipal Utility Board, Fort Worth, 1997.

(219) Terrell, City of and College Mound Water Supply Corporation: *Water Supply Contract*, Terrell, October, 1987.

(220) Texas Administrative Code: *30 TAC 290.101-121, Drinking Water Standards Governing Drinking Water Quality and Reporting Requirements for Public Water Supply Systems*, Austin, April, 1994.

(221) Texas Center for Policy Studies: *Texas Environmental Almanac*, Austin, 1995.

(222) Texas Department of Water Resources: *Water for Texas- A Comprehensive Plan for the Future*, Austin, November, 1984.

(223) Texas Natural Resource Conservation Commission: *The State of Texas Water Quality Inventory*, four volumes, 1996.

(224) Texas Natural Resource Conservation Commission: *Texas Water Quality, A Summary of River Basin Assessments*, Publication SFR-046, Austin, December, 1996.

(225) Texas Natural Resource Conservation Commission: *The State of Texas Water Quality Inventory*, available online at http://www.tnrcc.state.tx.us/water/quality/data/wqm/305b_ind.htm, Austin, 1998.

(226) Texas Natural Resource Conservation Commission: *Draft 1999 Clean Water Act Section 303(d) List*, Austin, January, 1999.

(227) Texas State Soil and Water Conservation Board: *A Comprehensive Study of Texas Watersheds and Their Impacts on Water Quality and Water Quantity,* January, 1991.

(228) Texas Water Commission: *Modified Final Determination of All Claims of Water Rights in the Upper Trinity River Segment of the Trinity River Basin*, Austin, December, 1980.

(229) Texas Water Commission: *Modified Final Determination of All Claims of Water Rights in the West Fork of the Trinity River Watershed of the Trinity River Basin,* Austin, December, 1981.

(230) Texas Water Commission: *Final Determination of All Claims of Water Rights in the Brazos I Segment Except the Salt Fork and Double Mountain Fork Watersheds of the Brazos River Basin,* Austin, February, 1982.

(231) Texas Water Commission: *Modified Final Determination of All Claims of Water Rights in the Brazos II Segment of the Brazos River Basin*, Austin, September, 1983.

(232) Texas Water Commission: *Modified Final Determination of All Claims of Water Rights in the Sulphur River Basin*, Austin, February, 1985.

(233) Texas Water Commission: *Modified Final Determination of All Claims of Water Rights in the Upper Sabine Segment of the Sabine River Basin*, Austin, May, 1985.

(234) Texas Water Commission: *Final Determination of All Claims of Water Rights in the Lower Trinity River Segment of the Trinity River Basin and the Western Portion of the Neches-Trinity Coastal Basin,* Austin, May, 1985.

(235) Texas Water Commission: *Modified Final Determination of All Claims of Water Rights in the Brazos IV Segment of the Brazos River Basin,* Austin, May, 1985.

(236) Texas Water Commission: *Final Determination of All Claims of Water Rights in the Lower Red River Segment of the Red River Basin*, Austin, May, 1985.

(237) Texas Water Commission: *Final Determination of All Claims of Water Rights in the Brazos River Basin and the San Jacinto-Brazos Coastal Basin Maintained by the Brazos River Authority, Fort Bend County W.C.I.D. No. 1, and Galveston County Water Authority,* Austin, June, 1985.

(238) Texas Water Commission: *Modified Final Determination of All Claims of Water Rights in the Middle Trinity River Segment of the Trinity River Basin,* Austin, July, 1985.

(239) Texas Water Commission: *31 Texas Administrative Code, Section 305.126(b), Texas Register,* Austin, December, 1989.

(240) Texas Water Commission: *Revised Interim Report of Water Availability in the Trinity River Basin, Run VI,* Austin, July, 1990.

(241) Texas Water Development Board: *Summary of the Preliminary Plan for Proposed Water Resources Development in the Red River Basin,* Austin, June, 1966.

(242) Texas Water Development Board: *Summary of the Preliminary Plan for Proposed Water Resources Development in the Neches River Basin,* Austin, June, 1966.

(243) Texas Water Development Board: *The Texas Water Plan,* Publication P32, Austin, November, 1968.

(244) Texas Water Development Board: *Report 126: Engineering Data on Dams and Reservoirs in Texas,* three volumes, Austin, November, 1973.

(245) Texas Water Development Board: *Sediment Resurvey of White Rock Lake,* Austin, March, 1993.

(246) Texas Water Development Board: *Sediment Resurvey of Lake Arlington,* Austin, August, 1994.

(247) Texas Water Development Board: *Sediment Resurvey of Cedar Creek Reservoir,* Austin, February, 1995.

(248) Texas Water Development Board: *Aquifers of Texas,* Report 345, Austin, 1996.

(249) Texas Water Development Board: *Water for Texas,* August, 1997.

(250) Texas Water Development Board, the Navarro County Commissioner's Court, and the Trinity River Authority: *Regional Water and Wastewater Facilities Planning for the Richland-Chambers Reservoir Area,* May, 1988.

(251) Texas Water Development Board and the Texas Natural Resource Conservation Commission: *Municipal Water Conservation Savings,* Staff Files, 1993.

(252) Thompson, G. L. of the U.S. Geological Society and the Texas Water Development Board: *Groundwater Resources of Navarro County, Texas,* Report No. 160, Austin, November, 1972.

(253) Trinity River Authority of Texas: *Report on Water Supply Suitability and Comparative Cost Analysis for Tennessee Colony and Richland Tehucana Lakes,* Arlington, March, 1976.

(254) Trinity River Authority of Texas: *Bardwell Reservoir Water Conservation Plan,* Arlington, July, 1994.

(255) Trinity River Authority of Texas: *Regional Assessment of Water Quality Trinity River Basin*, Arlington, 1996.

(256) Trinity River Authority of Texas: *Water Conservation and Emergency Water Demand Management Plan*, prepared for Trinity River Authority of Texas Ten Mile Creek Regional Wastewater System, Arlington, June, 1996.

(257) Trinity River Authority of Texas: *Trinity River Basin Master Plan*, February, 1997.

(258) Trinity River Authority of Texas: *Water Conservation and Emergency Water Demand Management Plan*, prepared for Trinity River Authority of Texas Central Regional Wastewater System, Arlington, January, 1998.

(259) Turner, Collie, and Braden, Inc.: *Long-Range Water Supply Plan, 1990-2050*, two volumes, prepared for the City of Dallas, Dallas Water Utilities, December, 1989.

(260) U.S. Army Corps of Engineers, Fort Worth District: *Trinity River Project, Texas, Project Memorandum No. 4, General Design Memorandum*, 5 volumes, Fort Worth, 1979.

(261) U.S. Army Corps of Engineers, Fort Worth District: *Trinity River Project, Texas, Project Memorandum No. 2, Hydrology, Part B (Tennessee Colony Lake)*, Fort Worth, March, 1979.

(262) U.S. Army Corps of Engineers, Fort Worth District: *Feasibility Report, Lignite Resource Recovery, Richland and Tehuacana Lake Sites, Freestone and Navarro Counties, Texas*, Fort Worth, August, 1982.

(263) U.S. Army Corps of Engineers, Fort Worth District: *Pertinent Data, Civil Projects in the Fort Worth District*, Fort Worth, 1983.

(264) U.S. Army Corps of Engineers, Fort Worth District: *Water Resources Development in Texas*, 1989.

(265) U.S. Army Corps of Engineers, Fort Worth District: *Reallocation and Sedimentation Survey Report Bardwell Reservoir*, 1989.

(266) U.S. Army Corps of Engineers, Fort Worth District: *Lower Trinity River Basin Reconnaissance Report*, 1992.

(267) U.S. Army Corps of Engineers, Tulsa District: *Pertinent Data Sheets for Tulsa District Projects*, Tulsa, 1977.

(268) U.S. Army Corps of Engineers, Tulsa District: *A Survey Report and Environmental Statement on the Study of Lake Texoma, Red River, Oklahoma, and Texas*, Tulsa, January, 1981.

(269) U.S. Bureau of Reclamation Austin Development Office: *Runoff, Brazos River Basin*, prepared for the United States Study Commission-Texas, Austin, September, 1960.

(270) U.S. Bureau of Reclamation Austin Development Office: *Runoff, Trinity River Basin,* two volumes, prepared for the United States Study Commission-Texas, Austin, September, 1960.

(271) U.S. Department of Agriculture: *National Soils Handbook*, prepared by the Soil Conservation Service, July, 1993.

(272) U.S. Department of the Interior, Bureau of Mines: *Evaluation of Lignite Resources at Proposed Richland and Tehuacana Reservoir Sites, Freestone and Navarro Counties, Texas*, Denver, March, 1980.

(273) U.S. Department of the Interior, Geological Survey: *Disastrous Floods on the Trinity, Red, and Arkansas Rivers*, May, 1990.

(274) U.S. Department of the Interior, Geological Survey: *Water Resources Data, Texas*, published annually in Austin, prior to 1960 these records appeared in the USGS Water Supply Papers.

(275) U.S. Environmental Protection Agency: *Interim Enhanced Surface Water Treatment Rule*, EPA 815-F-98-009, December, 1998.

(276) U.S. Environmental Protection Agency: *Stage 1 Disinfectants and Disinfection Byproducts*, EPA 815-F-98-010, December, 1998.

(277) Upper Trinity Regional Water District: *Draft of Little Elm Project: Water Conservation and Drought Management Plan*, Lewisville, March, 1990.

(278) Upper Trinity Regional Water District: *Water Conservation Plan and Emergency Water Demand Management Plan (Revised)*, prepared for Upper Trinity Regional Water District Regional Surface Water Supply, Lewisville, May, 1993.

(279) URS/Forrest and Cotton, Inc.: *Summary of Semi-Final Report on Long-Range Water Supply Study to Meet Anticipated Requirements to the Year 2050*, prepared for the City of Dallas, Dallas, July, 1973.

(280) URS/Forrest and Cotton, Inc.: *Semi-Final Report on Long-Range Water Supply Study to Meet Anticipated Requirements to the Year 2050*, prepared for the City of Dallas, Dallas, September, 1973.

(281) URS/Forrest and Cotton, Inc.: *Water Supply and Recreation Studies on Lake Ray Hubbard*, prepared for the City of Dallas, Dallas, March, 1975.

(282) URS/Forrest and Cotton, Inc.: *Report on Long-Range Water Supply Study to Meet Anticipated Requirements to the Year 2050*, (including appendix and supplement), prepared for the City of Dallas, Dallas, March, 1975.

(283) URS/Forrest and Cotton, Inc.: *Feasibility Study for Aubrey Lake*, prepared for the City of Dallas, 1977.

(284) URS/Forrest and Cotton, Inc.: *Water Supply and Recreation Studies on Lake Ray Hubbard*, prepared for the City of Dallas, Dallas, June, 1979.

(285) URS/Forrest and Cotton, Inc.: *Report on Potential Water Supply from Sabine River Basin*, prepared for the North Texas Municipal Water District, Dallas, August, 1979.

(286) Velvin and Weeks Consulting Engineers, Inc.: *East Cedar Creek Fresh Water Supply District: Water Conservation and Drought Contingency Plan (Amended)*, prepared for the Texas Water Development Board, Athens, July, 1993.

(287) Veselka Engineering Consultants, Inc.: *Water Conservation and Emergency Water Demand Management Plan (First Revised Draft)*, prepared for the City of River Oaks, submitted to the Texas Water Development Board, Arlington, March, 1993.

(288) Wasteline Engineering, Inc.: *Water Conservation Plan and Emergency Water Demand Management Plan*, prepared for Lake Cities Municipal Utility Authority, Fort Worth, September, 1993.

(289) Wasteline Engineering, Inc.: *Water Conservation Plan and Emergency Water Demand Management Plan*, prepared for City of Pelican Bay, Fort Worth, July, 1997.

(290) Waxahachie, City of: *Emergency Water Plan*, Waxahachie, 1996.

(291) Wesner, G.M. and M.V. Hughes: "The Potential for Wastewater Reuse in the United States," *Proceedings of the Water Reuse Symposium, Volume 1*, American Water Works Association Research Foundation, Denver, August, 1984.

(292) White, Lohrke, and Associates, Inc.: *Water Conservation Plan and Drought Contingency Plan (Revised Draft)*, prepared for the City of Justin, Fort Worth, February, 1989.

(293) Wilson, Lee: "Potable Reuse Criteria Established for El Paso, Texas," *Proceedings of the Water Reuse Symposium, Volume 1*, American Water Works Association Research Foundation, Denver, August, 1984.

(294) Wisenbaker, Fix and Associates: *Master Plan for the Water and Sewerage Systems*, prepared for the City of Hurst, Tyler, December, 1961.

APPENDIX C

QUESTIONNAIRES ON WATER PLANNING ISSUES

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QUESTIONNAIRES ON WATER PLANNING ISSUES

This appendix includes copies of the population and water demand surveys sent to a multitude of water user groups in Region C. The surveys were mailed to county judges, cities with populations greater than 500, regional water suppliers, non-city retail suppliers, and industries in order to get their input in the Region C planning process.

Region C Water Planning Group

Population and Water Use Projections Survey of Counties

PLEASE RETURN BY APRIL 23, 1999

County: _____

Contact Person: _____

Telephone Number: _____ FAX: _____E-Mail_____

Address: _____ Date Completed_____

1. Are the TWDB projections of population for your county reasonable? If not, what quantitative projections would you suggest? What is the basis for your suggested changes?

2. Are the TWDB projections of water use for your county reasonable? If not, what quantitative projections would you suggest? What is the basis for your suggested changes?

3. Are you aware of plans to develop additional source(s) of water supply for your county in the future? If so, please provide quantity in each source and location?

4. Please provide copies of any water supply plans for your county which you would like to have considered in the development of a regional water supply plan.

5. Please give any other comments you have on the regional water planning process. Use the back (or other sheets) if needed.

Please return to:
Larry D. Rivers, P.E.
Chiang, Patel & Yerby, Inc.
4100 Amon Carter Blvd., Suite 104
Ft. Worth, Texas 76155
TEL: (817) 540-4220
FAX: (817) 354-4935

Region C Water Planning Group

Population and Water Use Projections Survey of Cities

RETURN BY APRIL 23, 1999

City: _____

Contact Person: _____

Telephone Number: _____ FAX: _____E-Mail_____

Address: _____ Date Completed_____

5. Are the TWDB projections of population for your city reasonable? If not, what quantitative projections would you suggest? What is the basis for your suggested changes?

6. Are the TWDB projections of municipal water use for your city reasonable? If not, what quantitative projections would you suggest? What is the basis for your suggested changes?

7. Please give your comments on the TWDB projections for county population and water use.

8. What source(s) of water supply does your city use currently?

9. Is your city planning to develop additional source(s) of water supply in the future? If so, please provide quantity in each source and location?

10. Do you currently provide raw water or treated water to any other water suppliers? Please list other suppliers for which you provide raw water and the amount you provided to each of them in 1998. Please list other suppliers for which you provide treated water and the amount you provided to each of them in 1998.

11. Do you expect to discontinue providing water to any of these suppliers or to begin providing water to any additional suppliers? If so, what changes do you expect?

12. Please provide copies of any water supply plans your city has prepared which you would like to have considered in the development of a regional water supply plan.

9. Does your city have a conservation and drought contingency plan? If so, please provide a copy.

10. Please give any other comments you have on the regional water planning process. Use the back (or other sheets) if needed.

Please return to:
Larry D. Rivers, P.E.
Chiang, Patel & Yerby, Inc.
4100 Amon Carter Blvd., Suite 104
Ft. Worth, Texas 76155
TEL: (817) 540-4220
FAX: (817) 354-4935

Region C Water Planning Group

Population and Water Use Projections Survey of Regional Water Suppliers

PLEASE RETURN BY APRIL 23, 1999

Supplier: _____

Contact Person: _____

Telephone Number _____ FAX: _____ E-Mail_____

Address: _____ Date Completed_____

13. Are the TWDB projections of population for Region C counties reasonable? If not, please give any suggested quantitative changes on a separate sheet along with the basis for your suggested changes.

14. Are the TWDB projections of water use for Region C counties reasonable? If not, please give any suggested quantitative changes on a separate sheet along with the basis for your suggested changes.

15. Please provide your entity's projections of future water use, if available.

16. What source(s) of water supply does your entity use currently?

17. Is your entity planning to develop additional source(s) of water supply in the future? If so, please provide quantity and location?

18. Please list other suppliers for which you provide raw water and the amount you provided to each of them in 1998. Please list other suppliers for which you provide treated water and the amount you provided to each of them in 1998.

19. Do you expect to discontinue providing water to any of these suppliers or to begin providing water to any additional suppliers? If so, what changes do you expect?

20. Please provide copies of any reports or water supply plans your entity has prepared which you would like to have considered in the development of a water supply plan for your region.

21. Does your entity have a conservation and drought contingency plan? If so, please provide a copy.

10. Please give any other comments you have on the regional water planning process. Use the back (or other sheets) if needed.

Please return to:
Larry D. Rivers, P.E.
Chiang, Patel and Yerby
4100 Amon Carter Blvd., Suite 104
Ft. Worth, Texas 76155
TEL: (817) 540-4220
FAX: (817) 354-4935

Region C Water Planning Group

Population and Water Use Projections Survey of Non-City Retail Suppliers

PLEASE RETURN BY APRIL 23, 1999

Entity: _____

Contact Person: _____

Telephone Number _____ FAX: _____ E-Mail_____

Address: _____ Date Completed_____

22. Are the TWDB projections of population for the Region C counties you serve reasonable? If not, what quantitative projections would you suggest? What is the basis for your suggested changes?

23. Are the TWDB projections of water use for the Region C counties you serve reasonable? If not, what quantitative projections would you suggest? What is the basis for your suggested changes?

24. Please provide your entity's projections of future water use, if available.

25. What source(s) of water supply does your entity use currently?

26. Is your entity planning to develop additional source(s) of water supply in the future? If so, please provide quantity and location?

27. Do you currently provide raw water or treated water to any other water suppliers? Please list other suppliers for which you provide raw water and the amount you provided to each of them in 1998. Please list other suppliers for which you provide treated water and the amount you provided to each of them in 1998.

28. Do you expect to discontinue providing water to any of these suppliers or to begin providing water to any additional suppliers? If so, what changes do you expect?

29. Please provide a copy of any water supply plans your entity has prepared which you would like to have considered in the development of a regional water supply plan.

30. Does your entity have a conservation and drought contingency plan? If so, please provide a copy.

10. Please give any other comments you have on the regional water planning process. Use the back (or other sheets) if needed.

Please return to:
Larry D. Rivers, P.E.
Chiang, Patel & Yerby, Inc.
4100 Amon Carter Blvd., Suite 104
Ft. Worth, Texas 76155
TEL: (817) 540-4220
FAX: (817) 354-4935

Region C Water Planning Group

Population and Water Use Projections Survey of Industries

PLEASE RETURN BY APRIL 23, 1999

Company/Facility: _____

Contact Person: _____

Telephone Number: _____ FAX: _____ E-Mail_____

Address: _____ Date Completed_____

31. Are the TWDB projections of industrial water use for your county reasonable? If not, what quantitative projections would you suggest? What is the basis for your suggested changes?

32. How much water did your company/facility use in 1995, 1996, 1997, and 1998?

33. What are your quantitative projections of consumptive water use for your company/facility in 2000, 2010, 2020, 2030, 2040, 2050?

34. What source(s) of water supply does your company/facility use currently?

35. Is your company/facility planning to develop additional source(s) of water supply in the future? If so, please provide the quantity in each source and location?

36. Please provide a copy of any water supply plans for your company/facility which you would like to have considered in the development of a regional water supply plan.

7. Does your company/facility have a conservation and drought contingency plan? If so, please provide a copy.

8. Please give any other comments you have on the regional water planning process. Use the back (or other sheets) if needed.

Please return to:
Larry D. Rivers, P.E.
Chiang, Patel & Yerby, Inc.
4100 Amon Carter Blvd., Suite 104
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APPENDIX D

BACK-UP DATA FOR POPULATION AND

WATER DEMAND PROJECTIONS

APPENDIX D
BACK-UP DATA FOR POPULATION AND
WATER DEMAND PROJECTIONS

Table D-1 lists cities with historical per capita water use in the 1990s higher than the TWDB projected demand for the year 2000.

Table D-2 lists the reasons for the adjustments made to those cities whose projected population estimates were changed.

Table D-3 lists the reasons for the adjustments made to those cities whose projected water demands were changed.

Table D-4 shows the amount of unaccounted water in 1997 by entity.

Figures D-1 through D-16 shows the historical and projected population by county.

Table D-1 Cities with Per Capita Higher than TWDB Year 2000 Projections						
County	City	Actual per Capita Use			TWDB Year 2000	% Difference
		1998	Highest, 1988-98	Year of Highest		
Collin	Allen	209	209	1998	157	33.1%
Collin	Blue Ridge	N/A	121	1996	110	10.0%
Collin	Celina	N/A	151	1993	135	11.9%
Collin	Fairview	N/A	265	1996	212	25.0%
Collin	Frisco*	269	269	1998	198	35.9%
Collin	McKinney	263	263	1998	169	55.6%
Collin	Parker	256	256	1998	180	42.2%
Collin	Plano*	257	257	1998	211	21.8%
Collin	Princeton	128	128	1998	94	36.2%
Collin	Prosper	N/A	161	1995	117	37.6%
Cooke	Gainesville	N/A	201	1994	149	34.9%
Cooke	Lindsay	N/A	122	1997	113	8.0%
Cooke	Valley View	N/A	90	1996	84	7.1%
Dallas	Addison	475	475	1998	442	7.5%
Dallas	Balch Springs	112	116	1996	94	23.4%
Dallas	Cockrell Hill	139	139	1998	99	40.4%
Dallas	DeSoto	190	190	1998	170	11.8%
Dallas	Duncanville	182	182	1998	162	12.3%
Dallas	Grapevine	N/A	191	1996	180	6.1%
Dallas	Hutchins	220	220	1998	176	25.0%
Dallas	Lancaster	157	157	1998	131	19.8%
Dallas	Lewisville	231	231	1998	215	7.4%
Dallas	Richardson*	275	275	1998	233	18.0%
Dallas	Sachse*	171	171	1998	142	20.4%
Dallas	Seagoville	144	144	1998	125	15.2%
Dallas	Sunnyvale	269	269	1998	225	19.6%
Dallas	Wilmer	N/A	104	1993	88	18.2%
Denton	Argyle	N/A	209	1996	151	38.4%
Denton	Aubrey	N/A	99	1997	88	12.5%
Denton	Double Oak	N/A	142	1996	125	13.6%
Denton	Flower Mound	195	195	1998	183	6.6%
Denton	Hebron	N/A	120	1993	102	17.6%
Denton	Justin	N/A	135	1996	110	22.7%
Denton	Little Elm	N/A	131	1997	114	14.9%
Denton	Pilot Point	N/A	135	1996	123	9.8%
Denton	Shady Shores	N/A	90	1996	66	36.4%

Table D-1 Cities with Per Capita Higher than TWDB Year 2000 Projections						
County	City	Actual per Capita Use			TWDB Year 2000	% Difference
		1998	Highest, 1988-98	Year of Highest		
Denton	Trophy Club	N/A	275	1996	164	67.7%
Ellis	Ferris	N/A	133	1995	121	9.9%
Ellis	Maypearl	N/A	147	1997	72	104.2%
Ellis	Midlothian	N/A	176	1992	149	18.1%
Ellis	Oak Leaf	N/A	140	1997	121	15.7%
Ellis	Pecan Hill	N/A	141	1997	121	16.5%
Ellis	Waxahachie	N/A	296	1989	224	32.1%
Fannin	Honey Grove	N/A	203	1995	118	72.0%
Freestone	Fairfield	N/A	166	1996	152	9.2%
Freestone	Wortham	N/A	202	1995	145	39.3%
Grayson	Collinsville	N/A	115	1996	104	10.6%
Grayson	Denison	N/A	198	1996	160	23.8%
Grayson	Howe	N/A	144	1993	124	16.1%
Grayson	Luella	N/A	133	1996	121	9.9%
Grayson	Pottsboro	N/A	140	1993	107	30.8%
Grayson	Sherman	N/A	193	1996	136	41.9%
Grayson	Tioga	N/A	167	1997	106	57.5%
Grayson	Tom Bean	N/A	182	1996	143	27.3%
Grayson	Whitesboro	N/A	167	1997	121	38.0%
Grayson	Whitewright	N/A	163	1997	135	20.7%
Henderson	Gun Barrel City	N/A	200	1996	93	115.1%
Henderson	Malakoff	N/A	161	1995	133	21.1%
Henderson	Payne Springs	N/A	185	1997	63	193.7%
Henderson	Seven Points	N/A	110	1996	95	15.8%
Henderson	Tool	N/A	150	1996	108	38.9%
Jack	Jacksboro	N/A	150	1996	118	27.1%
Kaufman	Crandall	N/A	143	1996	125	14.4%
Kaufman	Forney	160	160	1998	105	52.4%
Kaufman	Kaufman	122	122	1998	100	22.0%
Kaufman	Kemp	N/A	133	1992	108	23.1%
Navarro	Corsicana	N/A	195	1997	179	8.9%
Navarro	Dawson	N/A	188	1996	164	14.6%
Parker	Springtown	N/A	151	1993	131	15.3%
Parker	Weatherford	N/A	157	1997	136	15.4%
Rockwall	Heath	N/A	172	1997	122	41.0%
Rockwall	Rockwall	193	193	1998	164	17.7%

Table D-1 Cities with Per Capita Higher than TWDB Year 2000 Projections						
County	**City**	**Actual per Capita Use**			**TWDB Year 2000**	**% Difference**
		1998	**Highest, 1988-98**	**Year of Highest**		
Rockwall	Royse City*	148	175	1995	128	36.7%
Tarrant	Arlington	185	185	1998	168	10.1%
Tarrant	Azle	135	135	1998	106	27.4%
Tarrant	Bedford	N/A	194	1988	177	9.6%
Tarrant	Benbrook	191	191	1998	167	14.4%
Tarrant	Burleson*	131	131	1998	107	22.4%
Tarrant	Colleyville	269	269	1998	214	25.7%
Tarrant	Dalworthington Gardens	245	245	1998	227	7.9%
Tarrant	Edgecliff Village	171	171	1998	141	21.3%
Tarrant	Fort Worth	219	219	1998	202	8.4%
Tarrant	Haltom City	145	145	1998	122	18.9%
Tarrant	Haslet	179	179	1996	139	28.8%
Tarrant	Lake Worth Village	135	177	1992	129	37.2%
Tarrant	Mansfield*	195	195	1998	143	36.4%
Tarrant	North Richland Hills	154	154	1998	120	28.3%
Tarrant	Saginaw	151	151	1998	135	11.9%
Tarrant	Sansom Park Village	121	121	1998	97	24.7%
Tarrant	Watauga	N/A	137	1998	122	12.3%
Wise	Boyd	N/A	141	1992	121	16.5%
Wise	Bridgeport	N/A	213	1997	122	74.6%

Notes:

a. Cities marked (*) have population in more than one county.

b. Cities listed had recent per capita water use exceed the TWDB projection by 5% or more.

c. N/A means data not available.

Table D-2 Comparison of Adopted City Population Projections and Previous TWDB Population Projections with Reasons

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Allen	Collin		125,136	125,136	0	0.0%	X						
Anna	Collin		1,622	1,622	0	0.0%	X						
Blue Ridge	Collin		789	789	0	0.0%	X						
Celina	Collin		5,255	39,952	34,697	660.3%					X		
Dallas	Collin	P	44,832	44,832	0	0.0%	X						
Fairview	Collin		6,028	6,538	510	8.5%		X	X		X		
Farmersville	Collin		7,361	7,729	368	5.0%		X	X				
Frisco	Collin	P	52,232	272,000	219,768	420.8%		X	X		X		
Garland	Collin	P	48	48	0	0.0%	X						
Lucas	Collin		8,439	8,439	0	0.0%	X						
Mckinney	Collin		74,698	277,200	202,502	271.1%		X	X		X		
Melissa	Collin		1,579	1,579	0	0.0%	X						
Murphy	Collin		4,370	18,600	14,230	325.6%		X	X		X		
New Hope	Collin		669	720	51	7.6%		X	X				
Parker	Collin		3,936	34,000	30,064	763.8%		X	X		X		
Plano	Collin	P	457,841	276,000	-181,841	-39.7%						X	
Princeton	Collin		1,898	7,500	5,602	295.2%		X	X		X		
Prosper	Collin		3,642	30,000	26,358	723.7%		X	X		X		
Richardson	Collin	P	17,981	17,981	0	0.0%	X						
Royse City	Collin	P	886	886	0	0.0%	X						
Sachse	Collin	P	839	839	0	0.0%	X						
Wylie	Collin	P	30,251	69,120	38,869	128.5%					X		
County-Other	Collin		312,150	259,885	-52,265	-16.7%							Adjust for County total.
Gainesville	Cooke		18,302	22,388	4,086	22.3%		X	X				
Lindsay	Cooke		1,087	1,087	0	0.0%	X						
Muenster	Cooke		1,828	2,175	347	19.0%		X	X				City input
Valley View	Cooke		564	1,039	475	84.2%					X		
County-Other	Cooke		16,040	15,811	-229	-1.4%							Adjust for County total.
Addison	Dallas		21,246	22,156	910	4.3%		X	X				
Balch Springs	Dallas		26,420	24,704	-1,716	-6.5%						X	Early growth too high/ Buildout.
Carrollton	Dallas	P	54,527	64,343	9,816	18.0%		X	X				
Cedar Hill	Dallas	P	101,196	87,318	-13,878	-13.7%		X	X				
Cockrell Hill	Dallas		3,882	4,442	560	14.4%		X	X				
Combine	Dallas	P	937	937	0	0.0%	X						

Reasons:
1. Current Population Exceeds TWDB Year 2000 Projections.
2. Recent Growth Trends Exceed TWDB's Projected Trends.
3. City Limit Growth Through Annexation.
4. Urbanization.
5. Buildout.
6. Other.

Table D-2 Comparison of Adopted City Population Projections and Previous TWDB Population Projections with Reasons

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Coppell	Dallas		89,118	44,689	-44,429	-49.9%		X				X	
Dallas	Dallas	P	1,189,062	1,211,933	22,871	1.9%		X	X				
De Soto	Dallas		80,944	82,923	1,979	2.4%		X	X				
Duncanville	Dallas		43,989	43,985	-4	0.0%	X						
Farmers Branch	Dallas		37,815	39,629	1,814	4.8%		X	X				
Garland	Dallas	P	217,516	234,904	17,388	8.0%		X	X				
Glenn Heights	Dallas	P	9,459	10,089	630	6.7%		X	X				
Grand Prairie	Dallas	P	104,243	106,586	2,343	2.2%		X	X				
Grapevine	Dallas	P	156	156	0	0.0%	X						
Highland Park	Dallas		11,858	11,858	0	0.0%	X						
Hutchins	Dallas		7,935	7,603	-332	-4.2%							Population adjusted for NCTCOG.
Irving	Dallas		279,929	289,423	9,494	3.4%		X	X				
Lancaster	Dallas		30,740	31,993	1,253	4.1%						X	No decline in population.
Lewisville	Dallas	P	2,168	2,168	0	0.0%	X						
Mesquite	Dallas		221,454	221,454	0	0.0%	X						
Ovilla	Dallas	P	586	586	0	0.0%	X						
Richardson	Dallas	P	99,739	99,739	0	0.0%	X						
Rowlett	Dallas	P	77,924	77,924	0	0.0%	X						
Sachse	Dallas	P	25,423	25,423	0	0.0%	X						
Seagoville	Dallas		27,761	25,474	-2,287	-8.2%			X				Early growth too high.
Sunnyvale	Dallas		8,595	8,595	0	0.0%	X						
University Park	Dallas		27,319	27,319	0	0.0%	X						
Wilmer	Dallas		2,966	3,159	193	6.5%			X				No decline after 2030.
County-Other	Dallas		455,088	448,483	-6,605	-1.5%							Adjust for County total.
Argyle	Denton		4,586	18,282	13,696	298.6%		X	X		X		
Aubrey	Denton		4,733	7,739	3,006	63.5%		X	X		X		
Bartonville	Denton		2,287	12,085	9,798	428.4%		X	X		X		
Carrollton	Denton	P	65,719	65,719	0	0.0%	X						
Copper Canyon	Denton		2,987	6,900	3,913	131.0%					X		
Corinth	Denton		30,632	30,632	0	0.0%	X						
Crossroads	Denton		0	18,902	18,902	0.0%							Missing from TWDB database.
Dallas	Denton	P	32,192	32,192	0	0.0%	X						
Denton	Denton		142,813	298,700	155,887	109.2%		X	X		X		
Double Oak	Denton		6,004	4,500	-1,504	-25.0%		X	X			X	

Reasons:
1. Current Population Exceeds TWDB Year 2000 Projections.
2. Recent Growth Trends Exceed TWDB's Projected Trends.
3. City Limit Growth Through Annexation.
4. Urbanization.
5. Buildout.
6. Other.

Table D-2 Comparison of Adopted City Population Projections and Previous TWDB Population Projections with Reasons

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Flower Mound	Denton		147,635	147,762	127	0.1%		X	X				
Frisco	Denton	P	2,271	2,271	0	0.0%	X						
Haslet	Denton		2,321	0	-2,321	-100.0%							In Tarrant County not Denton County.
Hebron	Denton		4,727	4,727	0	0.0%	X						
Hickory Creek	Denton		7,062	8,409	1,347	19.1%					X		
Highland Village	Denton		29,649	20,500	-9,149	-30.9%			X			X	
Justin	Denton		6,846	14,112	7,266	106.1%					X		
Krugerville	Denton		2,372	2,560	188	7.9%		X	X		X		
Krum	Denton		7,058	7,058	0	0.0%	X						
Lake Dallas	Denton		7,585	11,544	3,959	52.2%		X	X		X		
Lewisville	Denton	P	174,930	171,462	-3,468	-2.0%		X					
Lincoln Park	Denton		0	2,772	2,772	0.0%							Missing from TWDB database.
Little Elm	Denton		7,505	12,385	4,880	65.0%		X	X		X		
Northlake	Denton		0	40,000	40,000	0.0%							Missing from TWDB database.
Oak Point	Denton		1,873	11,867	9,994	533.6%		X	X		X		
Pilot Point	Denton		10,082	10,082	0	0.0%	X						
Plano	Denton	P	175	175	0	0.0%	X						
Ponder	Denton		0	8,350	8,350	0.0%							Missing from TWDB database.
Roanoke	Denton		6,910	7,518	608	8.8%		X	X				
Sanger	Denton		12,961	23,998	11,037	85.2%		X	X		X		
Shady Shores	Denton		3,303	4,770	1,467	44.4%		X	X		X		
Southlake	Denton	P	2,865	2,865	0	0.0%	X						
The Colony	Denton		32,665	65,145	32,480	99.4%		X	X		X		
Trophy Club	Denton		17,908	23,374	5,466	30.5%		X	X		X		
County-Other	Denton		354,910	250,642	-104,268	-29.4%							Adjust for County total.
Cedar Hill	Ellis	P	230	230	0	0.0%	X						
Ennis	Ellis		22,338	23,895	1,557	7.0%		X	X				
Ferris	Ellis		4,078	3,994	-84	-2.1%							Population overestimated.
Glenn Heights	Ellis	P	1,734	1,734	0	0.0%	X						
Grand Prairie	Ellis	P	220	220	0	0.0%	X						
Italy	Ellis		4,289	4,289	0	0.0%	X						
Mansfield	Ellis	P	2,071	2,071	0	0.0%	X						
Maypearl	Ellis		965	1,063	98	10.1%		X	X				
Midlothian	Ellis		20,815	20,815	0	0.0%	X						

Reasons:
1. Current Population Exceeds TWDB Year 2000 Projections.
2. Recent Growth Trends Exceed TWDB's Projected Trends.
3. City Limit Growth Through Annexation.
4. Urbanization.
5. Buildout.
6. Other.

Table D-2 Comparison of Adopted City Population Projections and Previous TWDB Population Projections with Reasons

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Milford	Ellis		996	1,051	55	5.5%		X	X				
Oak Leaf	Ellis		2,020	2,089	69	3.4%		X	X				
Ovilla	Ellis	P	3,792	4,626	834	22.0%		X	X		X		Anticipate urbanization.
Palmer	Ellis		4,556	4,047	-509	-11.2%							Current population overestimated.
Pecan Hill	Ellis		739	822	83	11.2%		X	X				
Red Oak	Ellis		10,009	10,725	716	7.2%		X	X				
Venus	Ellis		1,331	-1,637	-2,968	-223.0%		X	X				Not in Region C, but in Region G.
Waxahachie	Ellis		40,681	45,041	4,360	10.7%					X		Growth rate continues through 2050.
County-Other	Ellis		83,859	58,652	-25,207	-30.1%							Adjust for County total.
Bonham	Fannin		5,777	9,820	4,043	70.0%							Used county growth rate instead of decline.
Honey Grove	Fannin		1,431	2,577	1,146	80.1%		X	X				Used county growth rate instead of decline.
Leonard	Fannin		1,970	2,796	826	41.9%							Used county growth rate instead of decline.
Savoy	Fannin		1,096	974	-122	-11.2%							Growth estimated too high.
Trenton	Fannin		691	991	300	43.4%		X	X				Used county growth rate.
County-Other	Fannin		17,431	23,843	6,412	36.8%							Adjust for County total.
Fairfield	Freestone		5,238	5,238	0	0.0%	X						
Teague	Freestone		3,714	4,199	485	13.1%		X	X				
Wortham	Freestone		1,656	1,656	0	0.0%	X						
County-Other	Freestone		8,825	9,207	382	4.3%							Adjust for County total.
Bells	Grayson		896	1,597	701	78.2%			X				No decline-1% growth reflecting 90-97.
Collinsville	Grayson		1,441	1,652	211	14.6%		X	X				
Denison	Grayson		23,466	27,114	3,648	15.5%							Adjusted for no decline in growth rate.
Gunter	Grayson		1,546	1,546	0	0.0%	X						
Howe	Grayson		2,918	3,066	148	5.1%		X	X				
Luella	Grayson		731	801	70	9.6%		X	X				
Pottsboro	Grayson		2,382	3,331	949	39.9%		X	X				
Sherman	Grayson		37,295	45,048	7,753	20.8%		X	X		X		
Southmayd	Grayson		1,156	1,275	119	10.3%		X	X				
Tioga	Grayson		541	912	371	68.5%		X	X				No decline in population projected.
Tom Bean	Grayson		1,165	1,279	114	9.8%		X	X				
Van Alstyne	Grayson		3,696	8,134	4,438	120.1%		X	X		X		
Whitesboro	Grayson		3,196	4,500	1,304	40.8%		X	X				
Whitewright	Grayson		2,078	2,078	0	0.0%	X						
County-Other	Grayson		38,475	19,667	-18,808	-48.9%							Adjust for County total.

Reasons:
1. Current Population Exceeds TWDB Year 2000 Projections.
2. Recent Growth Trends Exceed TWDB's Projected Trends.
3. City Limit Growth Through Annexation.
4. Urbanization.
5. Buildout.
6. Other.

Table D-2 Comparison of Adopted City Population Projections and Previous TWDB Population Projections with Reasons

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Athens	Henderson		14,717	17,406	2,689	18.3%		X	X				
Berryville	Henderson		1,158	-1,366				X	X				Not in Region C, but in Region I.
Eustace	Henderson		1,034	1,112	78	7.5%		X	X				
Gun Barrel City	Henderson		6,257	6,915	658	10.5%		X	X				
Mabank	Henderson	P	621	621	0	0.0%	X						
Malakoff	Henderson		2,945	3,071	126	4.3%		X	X				
Payne Springs	Henderson		950	1,081	131	13.8%		X	X				
Seven Points	Henderson		971	1,128	157	16.2%		X	X				
Tool	Henderson		2,626	2,920	294	11.2%		X	X				
Trinidad	Henderson		1,325	1,428	103	7.8%		X	X				
County-Other	Henderson		27,872	23,428	-4,444	-15.9%							Adjust for County total.
Bryson	Jack		565	612	47	8.3%		X	X				
Jacksboro	Jack		5,061	5,139	78	1.5%		X	X				
County-Other	Jack		3,726	3,611	-115	-3.1%							Adjust for County total.
Combine	Kaufman	P	1,893	2,793	900	47.5%		X	X				
Crandall	Kaufman		6,164	6,164	0	0.0%	X						
Dallas	Kaufman	P	8	8	0	0.0%	X						
Forney	Kaufman		7,209	35,000	27,791	385.5%					X		
Kaufman	Kaufman		10,711	16,560	5,849	54.6%		X	X		X		
Kemp	Kaufman		3,684	3,684	0	0.0%	X						
Mabank	Kaufman	P	4,748	4,748	0	0.0%	X						
Oak Grove	Kaufman		979	1,067	88	9.0%		X	X				
Terrell	Kaufman		25,430	26,338	908	3.6%		X	X				
County-Other	Kaufman		52,138	66,055	13,917	26.7%							Adjust for County total.
Blooming Grove	Navarro		687	1,007	320	46.6%		X	X				
Corsicana	Navarro		28,435	40,215	11,780	41.4%		X	X		X		
Dawson	Navarro		674	674	0	0.0%	X						
Frost	Navarro		479	700	221	46.2%		X	X				
Kerens	Navarro		2,173	1,700	-473	-21.8%							Historical trends say no growth.
Rice	Navarro		764	871	107	14.0%		X	X				Moved from Ellis County.
County-Other	Navarro		20,864	15,833	-5,031	-24.1%							Adjust for County total.
Aledo	Parker		4,218	3,346	-872	-20.7%							2000 too high.
Annetta	Parker		1,465	1,465	0	0.0%	X						
Azle	Parker	P	2,576	3,207	631	24.5%							No decline predicted.

Reasons:
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6. Other.

Table D-2 Comparison of Adopted City Population Projections and Previous TWDB Population Projections with Reasons

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Briar	Parker	P	1,324	1,324	0	0.0%	X						
Hudson Oaks	Parker		2,437	2,437	0	0.0%	X						
Mineral Wells	Parker		946	946	0	0.0%	X						
Reno	Parker		5,001	5,318	317	6.3%		X	X				
Springtown	Parker		5,970	5,970	0	0.0%	X						
Weatherford	Parker		43,248	45,824	2,576	6.0%		X	X				
Willow Park	Parker		7,687	7,687	0	0.0%	X						
County-Other	Parker		96,344	93,692	-2,652	-2.8%							Adjust for County total.
Dallas	Rockwall	P	131	131	0	0.0%	X						
Heath	Rockwall		13,847	17,856	4,009	29.0%		X	X				
Rockwall	Rockwall		96,076	96,076	0	0.0%	X						
Rowlett	Rockwall	P	42,258	42,258	0	0.0%	X						
Royse City	Rockwall	P	18,747	31,963	13,216	70.5%					X		
Wylie	Rockwall	P	84	84	0	0.0%	X						
County-Other	Rockwall		32,387	15,161	-17,226	-53.2%							Adjust for County total.
Arlington	Tarrant		413,986	413,986	0	0.0%	X						
Azle	Tarrant	P	18,477	18,477	0	0.0%	X						
Bedford	Tarrant		50,000	56,200	6,200	12.4%		X	X				Buildout est. too low.
Benbrook	Tarrant		33,130	33,130	0	0.0%	X						
Blue Mound	Tarrant		2,910	3,264	354	12.2%		X	X				
Briar	Tarrant	P	6,597	6,597	0	0.0%	X						
Burleson	Tarrant		3,364	3,364	0	0.0%	X						
Colleyville	Tarrant		53,560	44,771	-8,789	-16.4%			X				2000 too high.
Crowley	Tarrant		16,387	15,182	-1,205	-7.4%			X				2000 too high.
Dalworthington Gard.	Tarrant		5,052	5,052	0	0.0%	X						
Edgecliff	Tarrant		2,800	3,000	200	7.1%		X	X				Buildout est. too low.
Euless	Tarrant		53,634	58,848	5,214	9.7%		X	X				Buildout est. too low.
Everman	Tarrant		5,721	6,500	779	13.6%		X	X				Buildout est. too low.
Forest Hill	Tarrant		13,811	13,811	0	0.0%	X						
Fort Worth	Tarrant		671,067	671,067	0	0.0%	X						
Grand Prairie	Tarrant	P	57,485	57,485	0	0.0%	X						
Grapevine	Tarrant	P	61,535	61,969	434	0.7%			X				Used NCTCOG population estimate.
Haltom City	Tarrant		39,456	44,412	4,956	12.6%		X	X				
Haslet	Tarrant		2,321	2,808	487	21.0%		X	X				Moved from Denton County.

Reasons:
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6. Other.

Table D-2 Comparison of Adopted City Population Projections and Previous TWDB Population Projections with Reasons														
City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons						
								1	2	3	4	5	6	
Hurst	Tarrant		40,175	41,129	954	2.4%		X	X					
Keller	Tarrant		44,818	44,818	0	0.0%	X							
Kennedale	Tarrant		19,725	19,725	0	0.0%	X							
Lake Worth Village	Tarrant		5,976	5,976	0	0.0%	X							
Mansfield	Tarrant	P	86,968	86,968	0	0.0%	X							
Newark	Tarrant	P	0	0	0	0.0%	X							Moved to Wise County.
North Richland Hills	Tarrant		112,232	112,232	0	0.0%	X							
Pantego	Tarrant		2,751	2,751	0	0.0%	X							
Pelican Bay	Tarrant		4,112	3,344	-768	-18.7%			X					2000 too high.
Richland Hills	Tarrant		19,985	19,985	0	0.0%	X							
River Oaks	Tarrant		6,838	6,838	0	0.0%	X							
Saginaw	Tarrant		18,144	20,942	2,798	15.4%		X	X					
Sansom Park Village	Tarrant		4,192	4,192	0	0.0%	X							
Southlake	Tarrant	P	59,151	59,151	0	0.0%	X							
Watauga	Tarrant		29,383	29,906	523	1.8%		X	X					
Westworth Village	Tarrant		2,600	2,600	0	0.0%	X							
White Settlement	Tarrant		15,950	15,950	0	0.0%	X							
County-Other	Tarrant		222,344	209,180	-13,164	-5.9%								Adjust for County total.
Alvord	Wise		1,196	1,292	96	8.0%		X	X					
Aurora	Wise		854	1,049	195	22.8%		X	X					
Boyd	Wise		2,285	2,285	0	0.0%	X							
Briar	Wise	P	1,466	1,466	0	0.0%	X							
Bridgeport	Wise		5,605	7,200	1,595	28.4%		X	X					
Chico	Wise		993	1,074	81	8.1%		X	X					
Decatur	Wise		7,420	7,420	0	0.0%	X							
Newark	Wise	P	1,294	1,509	215	16.6%		X	X					Moved from Tarrant County.
Rhome	Wise		1,116	1,172	56	5.0%		X	X					
County-Other	Wise		35,696	60,535	24,839	69.6%								Adjust for County total.

Reasons:
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6. Other.

Table D-3 Comparison of Approved City Water Demand Projections and Texas Water Development Board Projections with Reasons												
City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons						Comments
						1	2	3	4	5	6	
Allen	Collin		17,101	33,921	16,820	0	7,429	9,391	0	0	0	
Anna	Collin		167	182	15	0	0	0	15	0	0	
Blue Ridge	Collin		78	106	28	0	0	0	0	28	0	
Celina	Collin		671	8,503	7,832	4,431	0	0	0	3,401	0	
Dallas	Collin	P	12,504	13,258	754	0	0	0	0	0	754	Lower conservation decrease
Fairview	Collin		1,013	1,831	818	86	388	344	0	0	0	
Farmersville	Collin		858	1,212	354	43	0	0	0	311	0	
Frisco	Collin	P	9,595	85,005	75,410	40,372	21,632	13,406	0	0	0	
Garland	Collin	P	7	8	1	0	0	0	0	0	1	
Lucas	Collin		1,465	1,560	95	0	0	0	0	95	0	
McKinney	Collin		11,379	86,631	75,252	30,849	29,187	15,216	0	0	0	
Melissa	Collin		99	203	104	0	0	0	0	104	0	
Murphy	Collin		813	3,791	2,978	2,646	0	0	0	332	0	
New Hope	Collin		88	94	6	6	0	0	0	0	0	
Parker	Collin		630	10,816	10,186	4,816	2,894	2,476	0	0	0	
Plano	Collin	P	86,158	79,763	-6,395	-34,221	14,221	13,605	0	0	0	
Princeton	Collin		142	1,176	1,034	420	286	328	0	0	0	
Prosper	Collin		371	5,578	5,207	2,687	1,479	1,041	0	0	0	
Richardson	Collin	P	3,847	5,196	1,349	0	846	503	0	0	0	
Royse City	Collin	P	103	194	91	0	35	56	0	0	0	
Sachse	Collin	P	101	164	63	0	27	36	0	0	0	
Wylie	Collin	P	4,473	10,993	6,520	5,747	0	773	0	0	0	
Other	Collin		42,140	35,445	-6,695	-7,084	0	291	0	0	98	
Gainesville	Cooke		2,563	4,012	1,449	572	652	226	0	0	-1	
Lindsay	Cooke		110	138	28	0	0	0	28	0	0	
Muenster	Cooke		291	346	55	55	0	0	0	0	0	
Valley View	Cooke		39	145	106	33	45	12	17	0	-1	
Other	Cooke		1,677	1,771	94	-24	0	0	124	0	-6	
Addison	Dallas		9,091	13,650	4,559	389	819	1,638	0	0	1,713	Employment growth.
Balch Springs	Dallas		2,012	3,459	1,447	-131	609	969	0	0	0	

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3 Comparison of Approved City Water Demand Projections and Texas Water Development Board Projections with Reasons

City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons						Comments
						1	2	3	4	5	6	
Carrollton	Dallas	P	10,505	12,973	2,468	1,891	0	0	0	0	577	
Cedar Hill	Dallas	P	18,363	18,095	-268	-2,518	0	0	0	2,250	0	
Cockrell Hill	Dallas		317	647	330	46	204	80	0	0	0	
Combine	Dallas	P	109	136	27	0	0	0	0	27	0	
Coppell	Dallas		16,970	11,513	-5,457	-8,460	601	601	0	1,802	-1	
Dallas	Dallas	P	331,648	358,390	26,742	6,379	19,006	1,357	0	0	0	
DeSoto	Dallas		11,968	18,113	6,145	293	2,322	3,530	0	0	0	
Duncanville	Dallas		6,159	9,361	3,202	0	985	985	0	0	1,232	Commercialization
Farmers Branch	Dallas		12,665	15,803	3,138	608	0	0	0	0	2,530	Employment growth
Garland	Dallas	P	30,943	37,101	6,158	2,474	0	0	0	0	3,684	Lower conservation decrease
Glenn Heights	Dallas	P	2,236	1,695	-541	149	0	0	0	0	-690	Decreased per capita
Grand Prairie	Dallas	P	13,545	16,715	3,170	304	358	836	0	0	1,672	Commercial development
Grapevine	Dallas	P	25	32	7	0	3	3	0	0	1	
Highland Park	Dallas		4,290	4,290	0	0	0	0	0	0	0	
Hutchins	Dallas		1,262	2,129	867	-53	409	511	0	0	0	
Irving	Dallas		61,771	70,026	8,255	2,095	0	6,160	0	0	0	
Lancaster	Dallas		3,478	5,017	1,539	142	932	465	0	0	0	
Lewisville	Dallas	P	423	534	111	0	39	39	0	0	33	Commercialization
Mesquite	Dallas		31,256	36,465	5,209	0	2,481	2,728	0	0	0	
Ovilla	Dallas	P	100	128	28	0	0	0	0	28	0	
Richardson	Dallas	P	21,339	28,824	7,485	0	4,692	2,793	0	0	0	
Rowlett	Dallas	P	12,831	14,053	1,222	0	0	0	0	0	1,222	Lower conservation decrease
Sachse	Dallas	P	3,076	4,955	1,879	0	826	1,054	0	0	-1	
Seagoville	Dallas		3,047	4,280	1,233	-251	542	942	0	0	0	
Sunnyvale	Dallas		1,733	2,320	587	0	424	163	0	0	0	
University Park	Dallas		6,304	6,304	0	0	0	0	0	0	0	
Wilmer	Dallas		206	478	272	13	113	71	0	0	75	
Other	Dallas		145,750	143,637	-2,113	-2,113	0	0	0	0	0	
Argyle	Denton		596	4,096	3,500	1,780	1,188	532	0	0	0	
Aubrey	Denton		350	1,300	950	222	95	0	251	382	0	

Notes:
1. Population Change.
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Table D-3 Comparison of Approved City Water Demand Projections and Texas Water Development Board Projections with Reasons												
City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons						Comments
						1	2	3	4	5	6	
Bartonville	Denton		182	2,707	2,525	779	1,313	433	0	0	0	
Carrollton	Denton	P	12,662	13,251	589	0	0	0	0	0	589	
Copper Canyon	Denton		391	1,546	1,155	513	379	263	0	0	0	
Corinth	Denton		4,975	6,519	1,544	0	0	700	0	844	0	Split is approximate
Cross Roads	Denton		0	2,964	2,964	2,964	0	0	0	0	0	Not in TWDB numbers
Dallas	Denton	P	8,979	9,520	541	0	505	36	0	0	0	
Denton	Denton		26,875	61,229	34,354	29,335	0	0	0	0	5,019	Slower conservation
Double Oak	Denton		518	1,008	490	-130	86	86	0	448	0	
Flower Mound	Denton		23,648	31,448	7,800	20	1,986	5,793	0	0	1	
Frisco	Denton	P	417	728	311	0	181	130	0	0	0	
Hebron	Denton		318	794	476	0	0	0	185	291	0	
Hickory Creek	Denton		807	1,601	794	154	0	0	0	640	0	
Highland Village	Denton		4,782	4,133	-649	-1,476	253	505	0	69	0	
Justin	Denton		667	2,608	1,941	708	395	632	0	206	0	
Krugerville	Denton		154	401	247	12	0	0	106	129	0	
Krum	Denton		506	1,265	759	0	0	0	245	514	0	
Lake Dallas	Denton		909	1,810	901	475	0	0	0	426	0	
Lewisville	Denton	P	34,095	42,254	8,159	-676	3,073	3,073	0	0	2,689	Commercial development
Lincoln Park	Denton		0	435	435	435	0	0	0	0	0	Not in TWDB numbers
Little Elm	Denton		757	1,942	1,185	492	236	277	0	180	0	
Northlake	Denton		0	7,393	7,393	7,393	0	0	0	0	0	Not in TWDB numbers
Oak Point	Denton		176	1,861	1,685	940	93	133	0	518	1	
Pilot Point	Denton		1,095	1,694	599	0	136	226	0	237	0	
Plano	Denton	P	33	51	18	0	9	9	0	0	0	
Ponder	Denton		0	1,403	1,403	1,403	0	0	0	0	0	Not in TWDB numbers
Roanoke	Denton		542	1,011	469	48	0	0	211	210	0	
Sanger	Denton		1,205	4,032	2,827	1,026	0	0	323	1,478	0	
Shady Shores	Denton		122	748	626	54	128	214	0	230	0	
Southlake	Denton	P	584	745	161	0	161	0	0	0	0	
The Colony	Denton		2,891	10,946	8,055	2,874	0	0	1,168	4,013	0	

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
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Table D-3 Comparison of Approved City Water Demand Projections and Texas Water Development Board Projections with Reasons												
City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons						Comments
						1	2	3	4	5	6	
Trophy Club	Denton		2,126	6,546	4,420	649	2,906	865	0	0	0	
Other	Denton		35,790	42,113	6,323	-10,862	0	0	562	10,423	6,200	Better supply and growth
Cedar Hill	Ellis	P	42	48	6	0	0	0	0	6	0	
Ennis	Ellis		3,528	4,015	487	246	0	0	0	241	0	Future growth at typical urban
Ferris	Ellis		448	582	134	-9	54	89	0	0	0	
Glenn Heights	Ellis	P	410	291	-119	0	0	0	0	0	-119	
Grand Prairie	Ellis	P	29	35	6	0	1	2	0	0	3	Commercial development
Italy	Ellis		360	673	313	0	0	0	96	217	0	Future growth at typical urban
Mansfield	Ellis	P	255	452	197	0	107	90	0	0	0	
Maypearl	Ellis		55	182	127	6	89	32	0	0	0	
Midlothian	Ellis		2,961	4,080	1,119	0	1,049	70	0	0	0	
Milford	Ellis		91	149	58	6	0	0	5	47	0	Future growth at typical urban
Oak Leaf	Ellis		222	302	80	8	44	28	0	0	0	
Ovilla	Ellis	P	646	1,010	364	142	135	87	0	0	0	
Palmer	Ellis		424	521	97	-47	54	54	0	0	36	
Pecan Hill	Ellis		81	127	46	9	18	0	0	19	0	Future growth at typical urban
Red Oak	Ellis		1,088	1,526	438	78	0	0	0	360	0	
Venus	Ellis		192	-337	145	44	92	9	0	0	-337	Not in Region C, but in Region G.
Waxahachie	Ellis		8,157	8,930	773	874	0	0	0	0	-101	
Other	Ellis		10,457	7,424	-3,033	-3,033	0	0	0	0	0	
Bonham	Fannin		1,145	1,946	801	801	0	0	0	0	0	
Honey Grove	Fannin		156	526	370	125	245	0	0	0	0	
Leonard	Fannin		256	363	107	107	0	0	0	0	0	
Savoy	Fannin		93	104	11	-10	0	0	21	0	0	
Trenton	Fannin		120	172	52	52	0	0	0	0	0	
Other	Fannin		1,510	2,537	1,027	553	187	187	0	0	100	Slower conservation
Fairfield	Freestone		751	880	129	0	82	47	0	0	0	
Teague	Freestone		429	470	41	56	0	0	0	0	-15	
Wortham	Freestone		226	331	105	0	124	0	0	0	-19	
Other	Freestone		899	1,031	132	39	0	0	93	0	0	

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3 Comparison of Approved City Water Demand Projections and Texas Water Development Board Projections with Reasons													
City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons						Comments
						1	2	3	4	5	6	
Bells	Grayson		106	193	87	83	4	0	0	0	0	
Collinsville	Grayson		128	176	48	19	0	0	29	0	0	
Denison	Grayson		3,575	4,131	556	556	0	0	0	0	0	
Gunter	Grayson		184	234	50	0	17	33	0	0	0	
Howe	Grayson		330	426	96	17	69	0	0	0	10	
Louella	Grayson		80	117	37	8	11	18	0	0	0	
Pottsboro	Grayson		219	482	263	87	123	53	0	0	0	
Sherman	Grayson		4,679	8,830	4,151	973	2,876	302	0	0	0	
Southmayd	Grayson		136	160	24	14	0	0	0	0	10	
Tioga	Grayson		50	123	73	34	39	0	0	0	0	
Tom Bean	Grayson		157	215	58	15	56	0	0	0	-13	
Van Alstyne	Grayson		484	1,367	883	582	0	0	0	301	0	
Whitesboro	Grayson		347	731	384	142	232	10	0	0	0	
Whitewright	Grayson		261	302	41	0	41	0	0	0	0	
Other	Grayson		4,590	2,974	-1,616	-2,254	0	0	0	638	0	
Athens	Henderson		3,000	2,925	-75	548	0	0	0	0	-623	
Berryville	Henderson		119	0	-119	0	0	0	0	0	-119	Not in Region C, but in Region I.
Eustace	Henderson		105	125	20	8	0	0	12	0	0	
Gun Barrel City	Henderson		484	1,369	885	52	829	4	0	0	0	
Mabank	Henderson	P	160	115	-45	0	0	0	0	0	-45	
Malakoff	Henderson		366	478	112	16	96	0	0	0	0	
Payne Springs	Henderson		45	199	154	6	148	0	0	0	0	
Seven Points	Henderson		80	120	40	13	19	0	8	0	0	
Tool	Henderson		244	409	165	27	137	0	0	0	1	
Trinidad	Henderson		217	200	-17	17	0	0	0	0	-34	
Other	Henderson		3,003	2,777	-226	-478	0	0	258	0	-6	
Bryson	Jack		54	65	11	4	3	0	4	0	0	
Jacksboro	Jack		550	806	256	8	184	64	0	0	0	
Other	Jack		386	425	39	-13	0	0	13	0	39	
Combine	Kaufman	P	221	454	233	0	0	0	0	233	0	

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3 Comparison of Approved City Water Demand Projections and Texas Water Development Board Projections with Reasons												
City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons						Comments
						1	2	3	4	5	6	
Crandall	Kaufman		621	898	277	0	124	153	0	0	0	
Dallas	Kaufman	P	2	2	0	0	0	0	0	0	0	
Forney	Kaufman		662	7,331	6,669	2,553	2,156	1,960	0	0	0	
Kaufman	Kaufman		924	1,855	931	504	408	19	0	0	0	
Kemp	Kaufman		355	413	58	0	103	0	0	0	-45	
Mabank	Kaufman	P	1,223	878	-345	0	0	0	0	0	-345	
Oak Grove	Kaufman		80	120	40	7	0	0	33	0	0	
Terrell	Kaufman		4,558	4,721	163	163	0	0	0	0	0	
Other	Kaufman		5,813	7,769	1,956	1,574	0	0	0	0	382	Slower conservation
Blooming Grove	Navarro		66	107	41	31	0	0	10	0	0	
Corsicana	Navarro		4,905	7,298	2,393	2,032	721	0	0	0	-360	
Dawson	Navarro		106	121	15	0	18	0	0	0	-3	
Frost	Navarro		49	79	30	23	0	0	7	0	0	
Kerens	Navarro		190	190	0	-41	0	0	41	0	0	
Rice	Navarro		183	209	26	26	0	0	0	0	0	
Other	Navarro		2,045	1,933	-112	-496	0	0	0	0	384	
Aledo	Parker		378	869	491	86	0	0	0	405	0	
Annetta	Parker		128	874	746	419	0	0	0	327	0	
Azle	Parker	P	237	528	291	58	104	104	0	25	0	
Briar	Parker	P	148	172	24	0	0	0	0	24	0	
Hudson Oaks	Parker		213	1,746	1,533	695	0	0	314	525	-1	
Mineral Wells	Parker		150	150	0	0	0	0	0	0	0	
Reno	Parker		336	745	409	21	0	0	328	60	0	
Springtown	Parker		655	1,037	382	0	134	167	0	81	0	
Weatherford	Parker		4,990	15,533	10,543	5,676	2,175	2,692	0	0	0	
Willow Park	Parker		1,007	2,908	1,901	1,261	0	0	0	640	0	
Other	Parker		8,373	4,020	-4,353	-6,327	0	0	456	1,518	0	
Dallas	Rockwall	P	37	39	2	2	0	0	0	0	0	
Heath	Rockwall		1,536	3,000	1,464	445	1,000	19	0	0	0	
Rockwall	Rockwall		14,421	24,426	10,005	0	3,121	6,888	0	0	-4	

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3 Comparison of Approved City Water Demand Projections and Texas Water Development Board Projections with Reasons												
City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons						Comments
						1	2	3	4	5	6	
Rowlett	Rockwall	P	6,958	7,621	663	0	0	0	0	0	663	Slower conservation
Royse City	Rockwall	P	2,184	5,764	3,580	1,540	1,683	357	0	0	0	
Wylie	Rockwall	P	12	13	1	1	0	0	0	0	0	
Other	Rockwall		6,929	3,244	-3,685	-3,685	0	0	0	0	0	
Arlington	Tarrant		62,139	83,470	21,331	0	7,883	13,448	0	0	0	
Azle	Tarrant	P	1,697	3,042	1,345	0	600	745	0	0	0	
Bedford	Tarrant		7,953	9,946	1,993	986	1,007	0	0	0	0	
Benbrook	Tarrant		4,824	6,383	1,559	0	891	668	0	0	0	
Blue Mound	Tarrant		205	347	142	25	29	0	88	0	0	
Briar	Tarrant	P	739	857	118	0	0	0	0	118	0	
Burleson	Tarrant		298	528	230	0	90	140	0	0	0	
Colleyville	Tarrant		10,199	12,136	1,937	-1,674	2,758	853	0	0	0	
Crowley	Tarrant		1,377	2,126	749	-101	136	0	0	714	0	Future growth at typical urban
Dalworthington Gardens	Tarrant		1,053	1,251	198	0	102	96	0	0	0	
Edgecliff Village	Tarrant		332	518	186	24	101	61	0	0	0	
Euless	Tarrant		8,952	9,492	540	870	0	0	0	0	-330	
Everman	Tarrant		455	692	237	62	0	0	175	0	0	
Forest Hill	Tarrant		1,284	1,779	495	0	124	0	62	0	309	
Fort Worth	Tarrant		127,788	155,600	27,812	0	12,779	15,033	0	0	0	
Grand Prairie	Tarrant	P	7,469	9,015	1,546	0	193	451	0	0	902	Commercial development
Grapevine	Tarrant	P	9,995	11,856	1,861	66	694	694	0	0	407	Commercial development
Haltom City	Tarrant		4,022	6,517	2,495	505	1,144	846	0	0	0	
Haslet	Tarrant		299	503	204	63	126	15	0	0	0	
Hurst	Tarrant		5,445	6,818	1,373	129	230	460	0	0	554	
Keller	Tarrant		8,735	7,882	-853	0	0	0	0	0	-853	
Kennedale	Tarrant		3,712	3,513	-199	0	0	0	0	0	-199	
Lake Worth Village	Tarrant		656	937	281	0	281	0	0	0	0	
Mansfield	Tarrant	P	10,716	16,561	5,845	0	5,706	139	0	0	0	
North Richland Hills	Tarrant		11,314	17,475	6,161	0	4,274	1,887	0	0	0	
Pantego	Tarrant		521	582	61	0	0	0	0	0	61	

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3 Comparison of Approved City Water Demand Projections and Texas Water Development Board Projections with Reasons

City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons						Comments
						1	2	3	4	5	6	
Pelican Bay	Tarrant		143	431	288	-27	34	0	206	75	0	
Richland Hills	Tarrant		2,328	2,709	381	0	0	0	0	0	381	
River Oaks	Tarrant		835	881	46	0	0	0	0	0	46	
Saginaw	Tarrant		2,093	3,519	1,426	323	375	728	0	0	0	
Sansom Park Village	Tarrant		329	512	183	0	113	70	0	0	0	
Southlake	Tarrant	P	12,059	15,383	3,324	0	2,319	1,005	0	0	0	
Watauga	Tarrant		2,995	4,656	1,661	53	1,072	536	0	0	0	
Westworth Village	Tarrant		146	277	131	0	0	0	131	0	0	
White Settlement	Tarrant		1,965	2,055	90	0	0	0	0	0	90	
Other	Tarrant		31,632	30,054	-1,578	-1,825	0	0	0	0	247	
Alvord	Wise		135	166	31	11	0	0	0	0	20	
Aurora	Wise		82	159	77	19	0	0	11	0	47	Better supply and growth
Boyd	Wise		243	346	103	0	0	0	0	0	103	Better supply and growth
Briar	Wise	P	164	190	26	0	26	0	0	0	0	
Bridgeport	Wise		615	1,210	595	175	734	0	0	0	-314	
Chico	Wise		174	168	-6	14	0	0	0	0	-20	
Decatur	Wise		1,346	1,346	0	0	0	0	0	0	0	
Newark	Wise		141	197	56	23	0	0	0	0	33	Better supply and growth
Rhome	Wise		119	237	118	6	0	0	0	0	112	Better supply and growth
Other	Wise		3,291	9,493	6,202	2,282	0	0	882	3,038	0	

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-4 Unaccounted Water for Region C			
County	**Entity**	**1997 WateUse in Acre-Feet**	**1997 Unaccounted Water in Percent**
Collin	Anna	153	28.1%
Collin	Celina	283	20.6%
Collin	Frisco	4,402	11.1%
Collin	McKinney	9,177	22.1%
Collin	Plani	47,144	15.5%
Collin	Desert WSC	113	12.7%
Collin	Frognot WSC	119	9.9%
Collin	Josephine WSC	71	0.9%
Collin	Nevada WSC	122	4.1%
Collin	Verona WSC	171	16.3%
Cooke	Woodbine WSC	429	14.6%
Dallas	Addison	5,477	4.9%
Dallas	Cedar Hill	4,722	21.0%
Dallas	Cockrell Hill	464	33.5%
Dallas	Coppell	5,938	1.0%
Dallas	Dallas	442,960	10.0%
Dallas	De Soto	6,878	18.6%
Dallas	Farmers Branch	9,331	8.8%
Dallas	Garland	33,838	0.7%
Dallas	Glenn Heights	736	14.0%
Dallas	Grand Prairie	18,130	12.8%
Dallas	Mesquite	17,634	4.0%
Dallas	Richardson	24,897	9.0%
Dallas	Wilmer	312	15.5%
Denton	Argyle WSC	605	7.9%
Denton	Denton	16,909	4.2%
Denton	Trophy Club MUD #1	1,427	5.2%
Denton	Highland Village	1,904	1.8%
Denton	Krum	211	6.8%
Denton	Lake Cities MUA	1,003	9.5%
Denton	Lewisville	11,880	14.9%
Denton	Little Elm	228	8.0%
Denton	Ponder	109	0.2%
Denton	Mustang WSC	440	8.8%
Ellis	Ennis	2,643	18.5%
Ellis	Ferris	348	18.3%
Ellis	Midlothian	3,907	1.3%
Ellis	Waxahachie	4,509	17.1%

Table D-4 Unaccounted Water for Region C			
County	**Entity**	**1997 WateUse in Acre-Feet**	**1997 Unaccounted Water in Percent**
Ellis	Buena Vista-Bethel WSC	263	30.9%
Ellis	Mountain Peak WSC	696	30.3%
Ellis	Nash-Forreston WSC	137	19.9%
Ellis	Rockett SUD	3,114	22.1%
Ellis	South Ellis WSC	110	25.3%
Fannin	Bonham	1,922	37.3%
Fannin	Honey Grove	385	38.2%
Fannin	Savoy	102	4.7%
Fannin	Southwest Fannin WSC	375	27.1%
Fannin	White Shed WSC	194	13.5%
Grayson	Bells	133	28.6%
Grayson	Collinsville	207	25.5%
Grayson	Howe	262	8.0%
Grayson	Pottsboro	181	8.4%
Grayson	Southmayd	32	25.1%
Grayson	Tioga	131	40.4%
Grayson	Whitesboro	654	18.3%
Grayson	Northwest Grayson WCID #1	99	11.9%
Grayson	Gunter Rural WSC	370	15.2%
Grayson	Red River Authority	148	6.5%
Grayson	South Grayson WSC	192	1.2%
Grayson	Two Way WSC	269	15.8%
Henderson	Athens	2,193	11.4%
Henderson	Malakoff	325	22.2%
Henderson	Trinidad	218	25.2%
Henderson	Beachwood/North Trinidad WD	88	35.8%
Henderson	East Cedar Creek FWSD	1,111	28.0%
Henderson	Leagueville WSC	169	14.4%
Henderson	Westwood Beach	53	3.8%
Henderson	Cherokee Shores	241	19.7%
Henderson	West Cedar Creek MUD	1,241	13.6%
Jack	Bryson	74	9.0%
Jack	Jacksboro	568	22.0%
Kaufman	Crandall	404	12.1%
Kaufman	Mabank	971	29.6%
Kaufman	Terrell	3,810	16.1%
Kaufman	Gastonia-Scurry WSC	362	14.9%
Kaufman	Rose Hill WSC	199	5.3%

Table D-4 Unaccounted Water for Region C			
County	**Entity**	**1997 WateUse in Acre-Feet**	**1997 Unaccounted Water in Percent**
Kaufman	Talty WSC	178	13.1%
Navarro	Corsicana	8,711	15.0%
Navarro	Kerens	178	10.4%
Navarro	Angus WSC	95	17.9%
Navarro	Navarro Mills WSC	215	18.0%
Parker	Aledo	159	12.3%
Parker	Willow Park	458	10.0%
Parker	Walnut Creek SUD	705	10.6%
Parker	Western Lake Estates	139	39.9%
Rockwall	Royse City	723	1.1%
Rockwall	Blackland WSC	317	2.7%
Tarrant	Arlington	56,322	10.1%
Tarrant	Azle	1,393	11.2%
Tarrant	Colleyville	4,283	0.7%
Tarrant	Euless	6,608	8.4%
Tarrant	Forest Hill	1,354	16.0%
Tarrant	Grapevine	7,485	0.3%
Tarrant	Hurst	6,085	0.2%
Tarrant	Kennedale	798	10.2%
Tarrant	North Richland Hills	11,022	5.9%
Tarrant	Richland Hills	1,217	3.1%
Tarrant	Saginaw	1,579	9.6%
Tarrant	Sansom Park	497	24.7%
Tarrant	White Settlement	1,990	13.0%
Tarrant	Tarrant County MUD #1	859	10.0%
Tarrant	Tarrant County FWSD #1	169	4.1%
Wise	Birdgeport	1,277	28.6%
Wise	Rhome	62	17.5%
Wise	West Wise Rural WSC	336	19.0%
Weighted Average		816,952	10.1%

Note: Data are from Texas Water Development Board files. Entities with less than 50 acre-feet of water use and entities for which TWDB did not have data are not included.

Figure D-1
Collin County
Historical and Projected Population

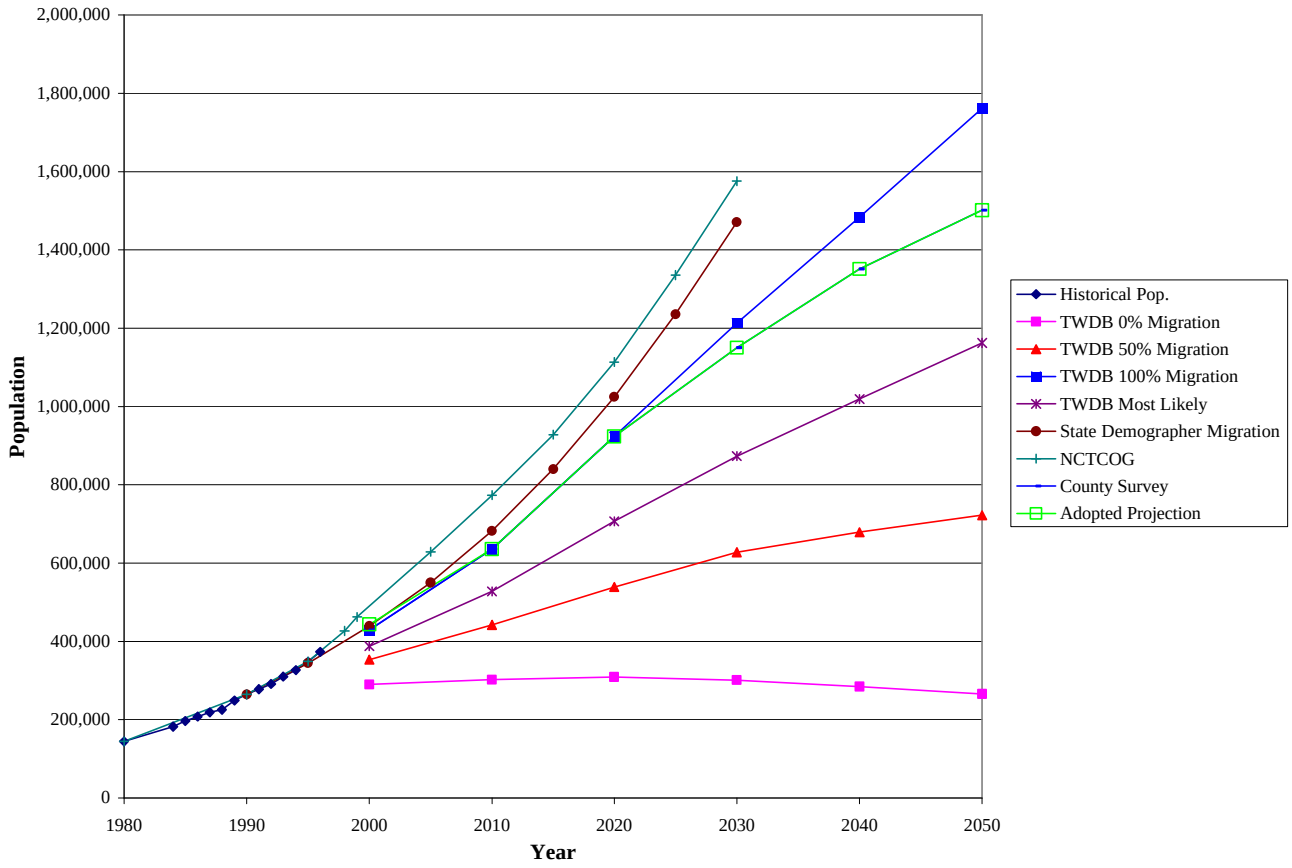

Figure D-2
Cooke County
Historical and Projected Population

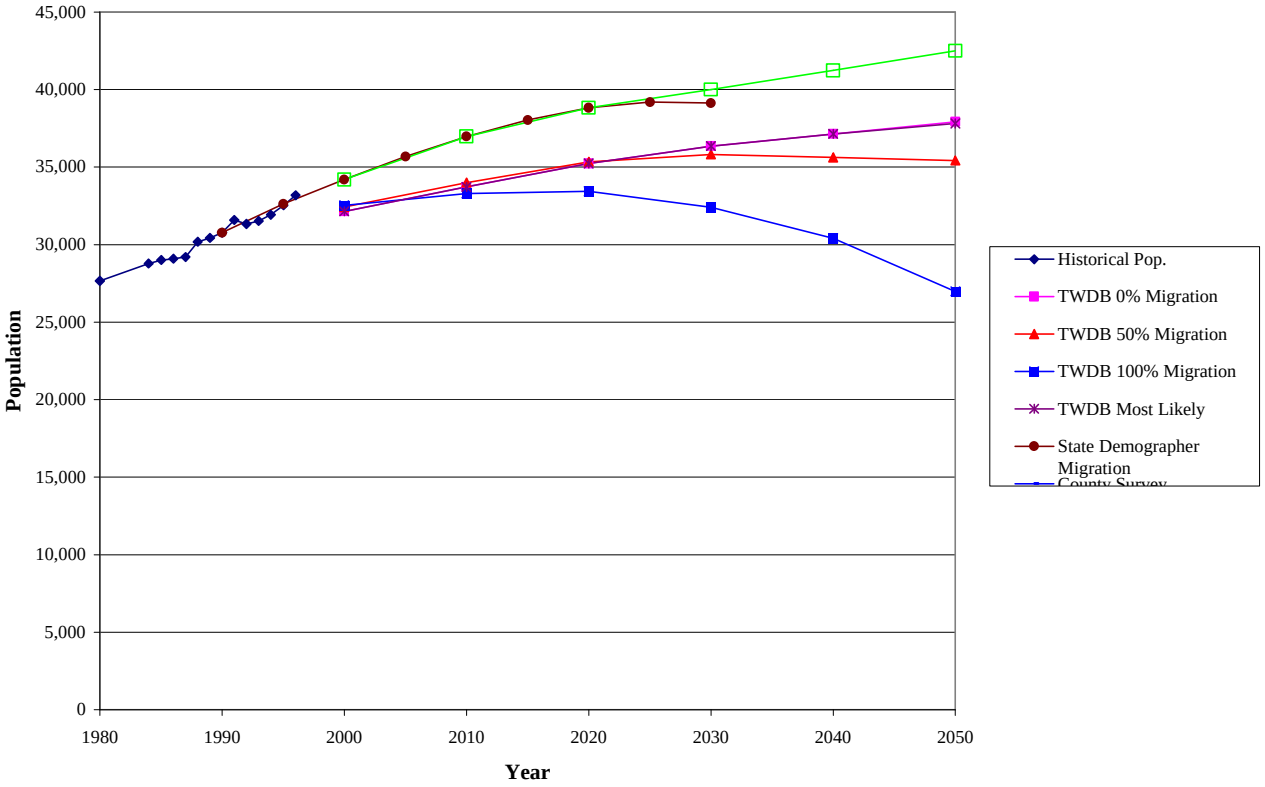

Figure D-3
Dallas County
Historical and Projected Population

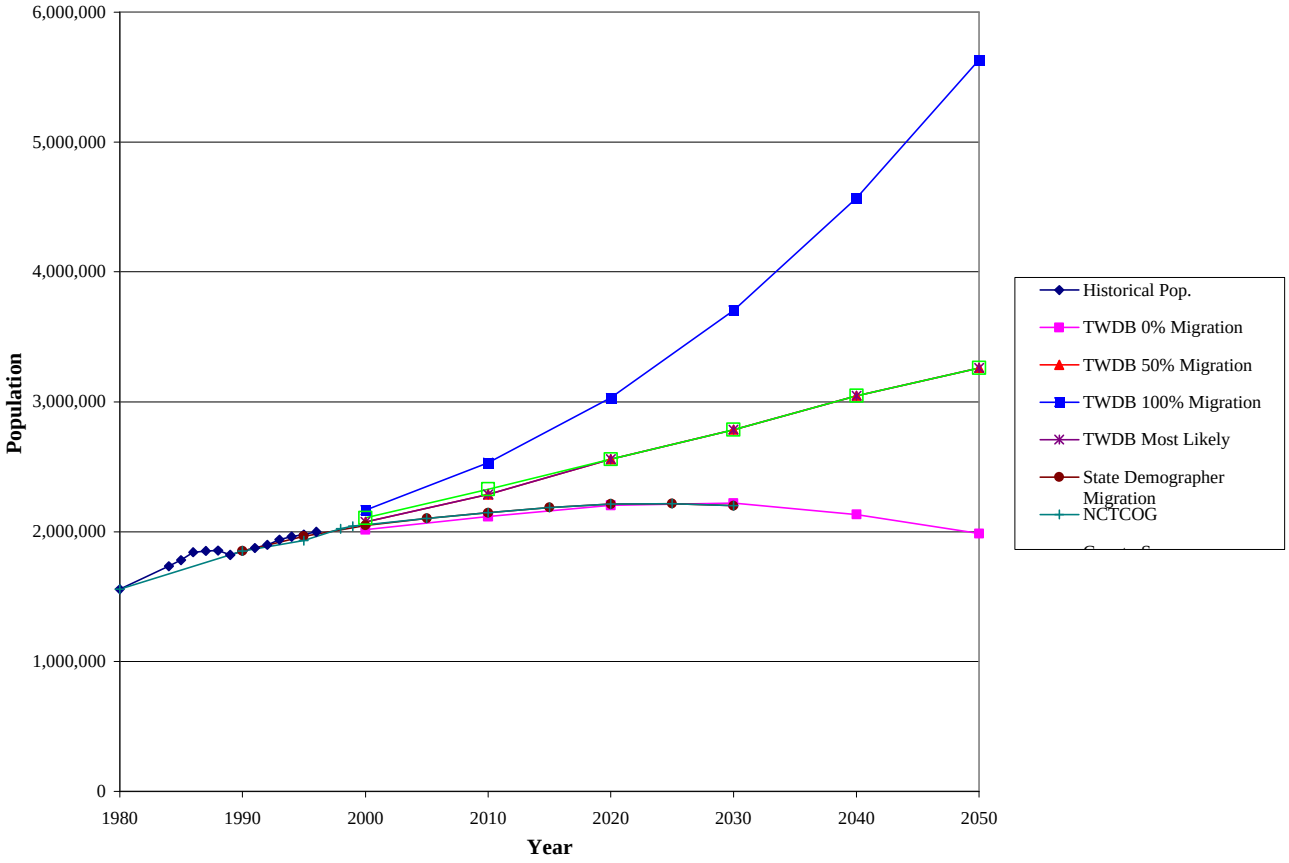

Figure D-4
Denton County
Historical and Projected Population

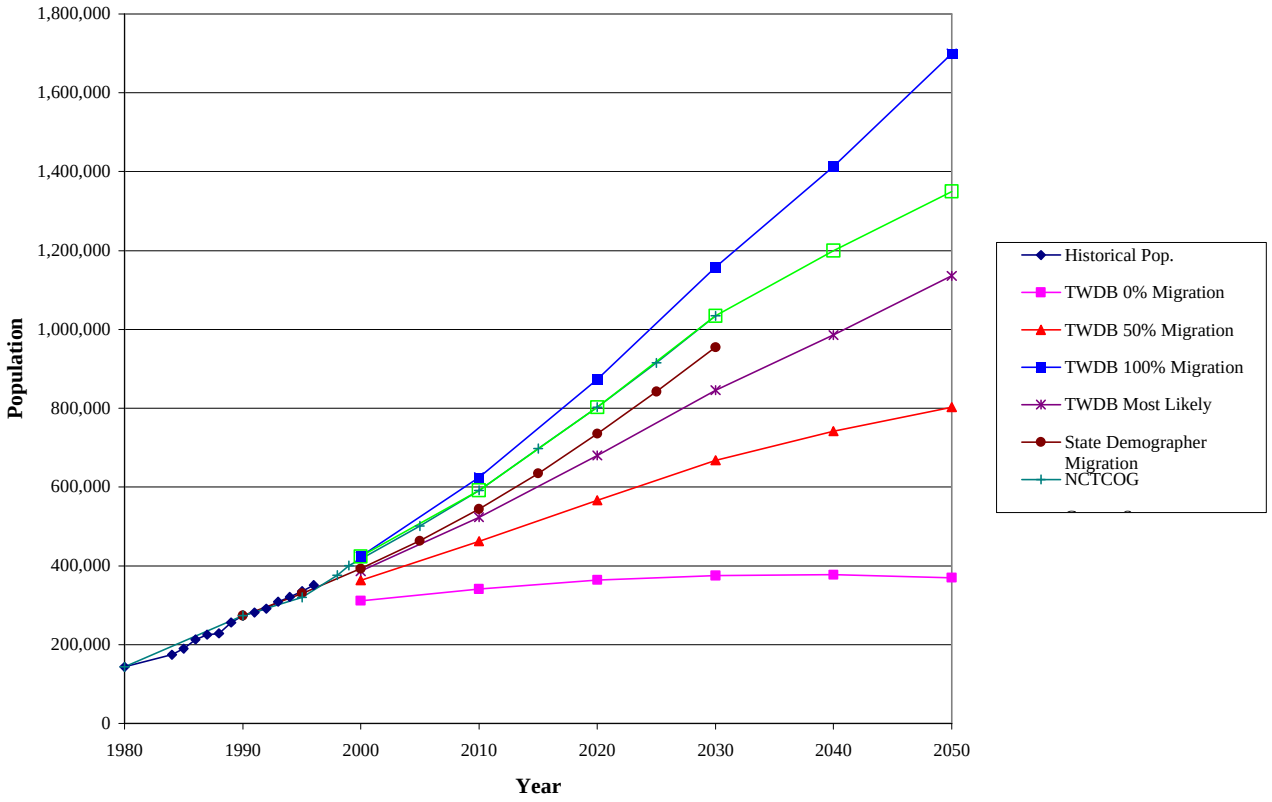

Figure D-5
Ellis County
Historical and Projected Population

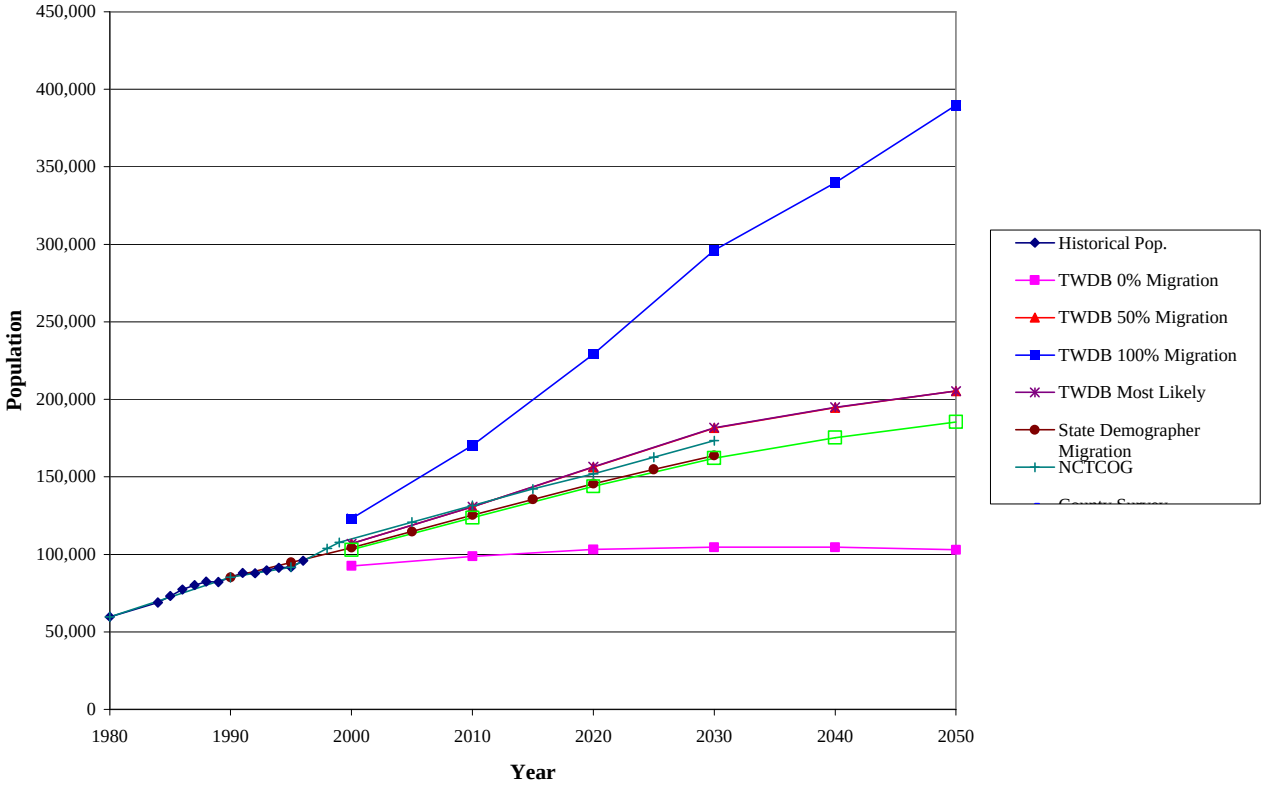

Figure D-6
Fannin County
Historical and Projected Population

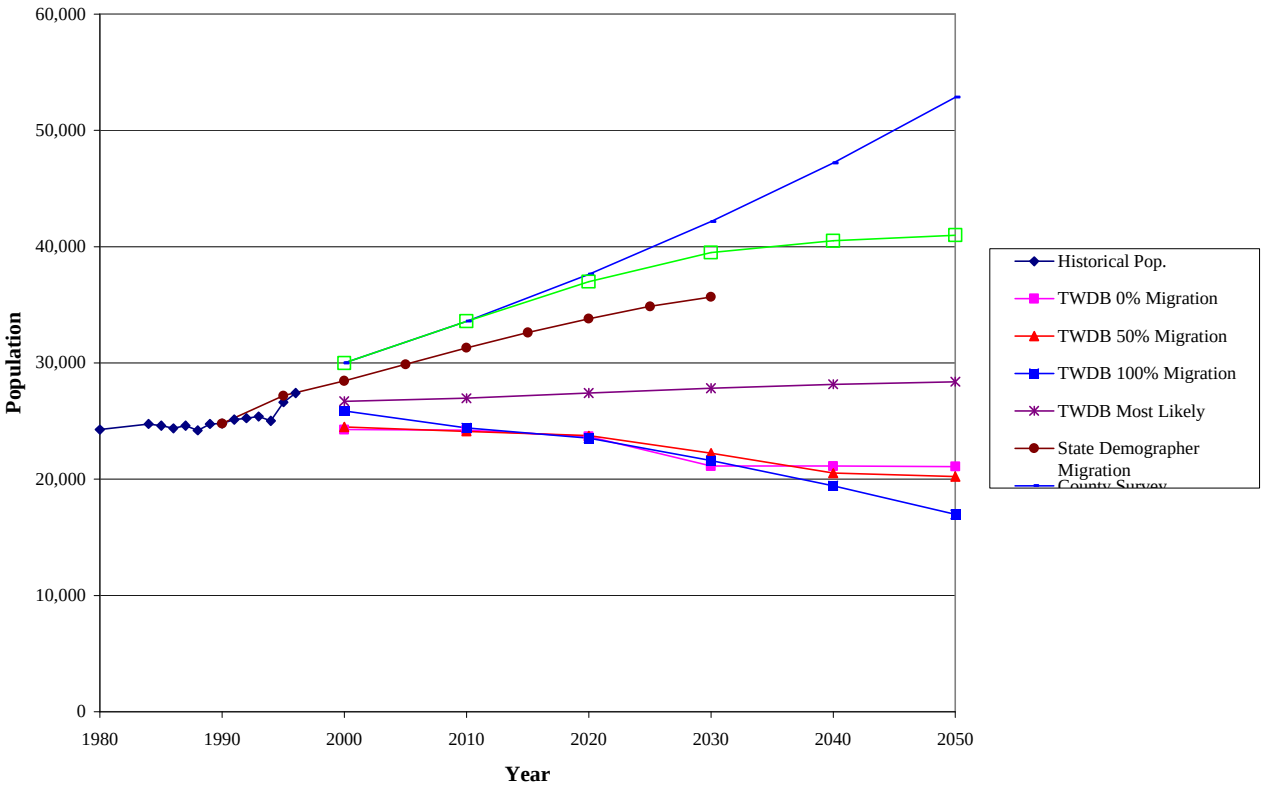

Figure D-7
Freestone County
Historical and Projected Population

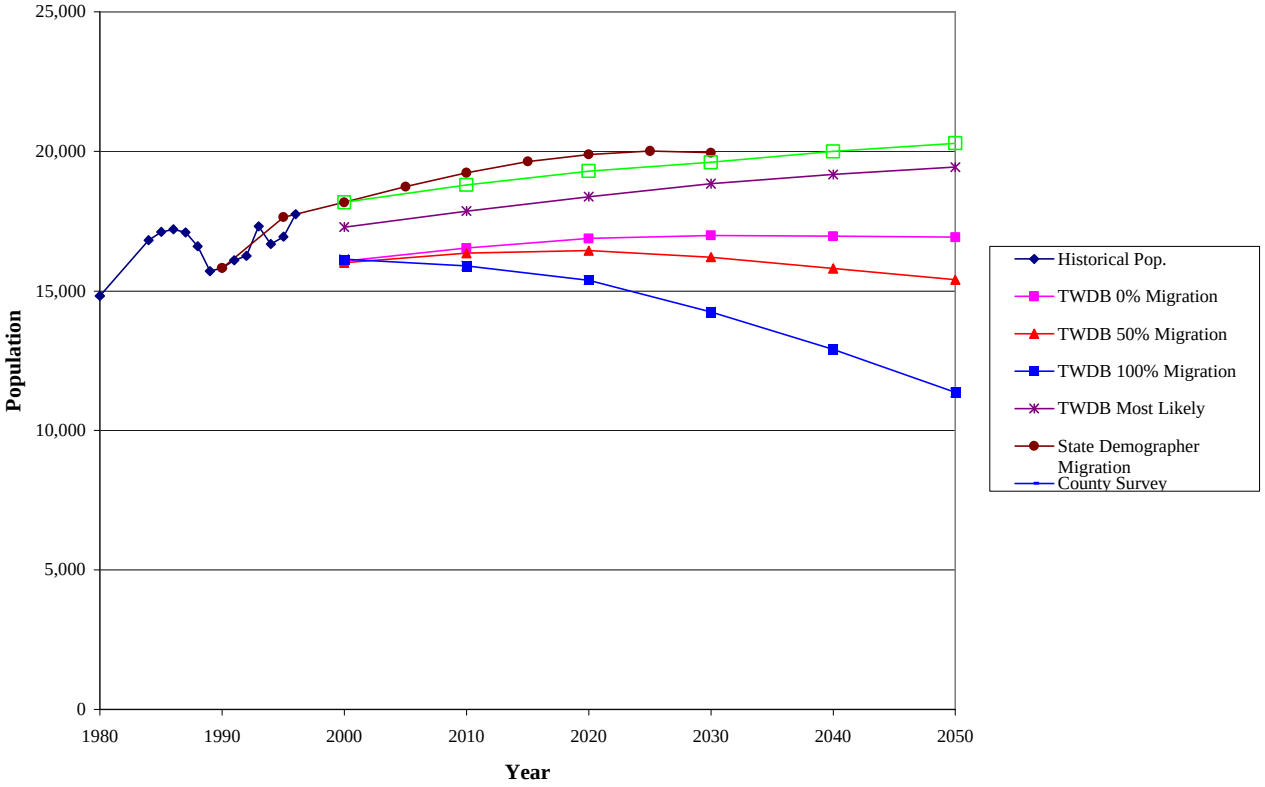

Figure D-8
Grayson County
Historical and Projected Population

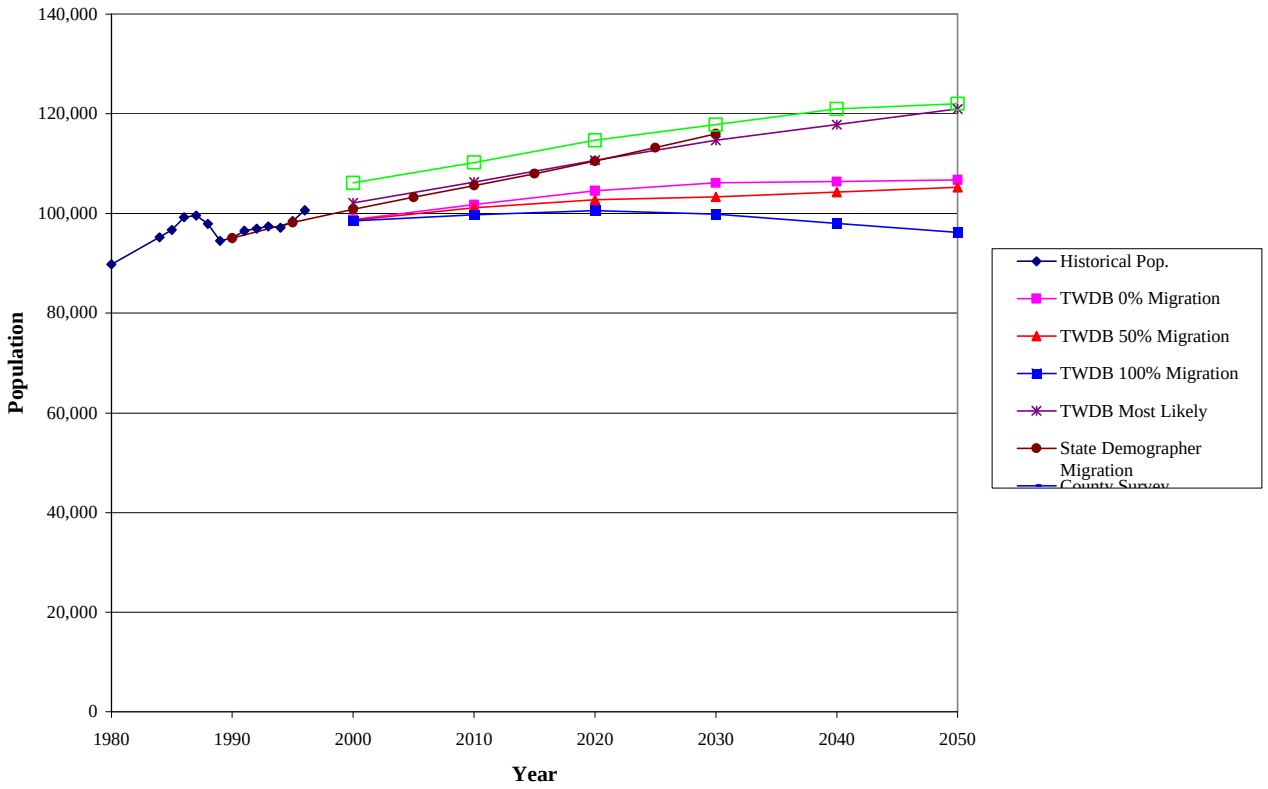

Figure D-9
Henderson County
Historical and Projected Population

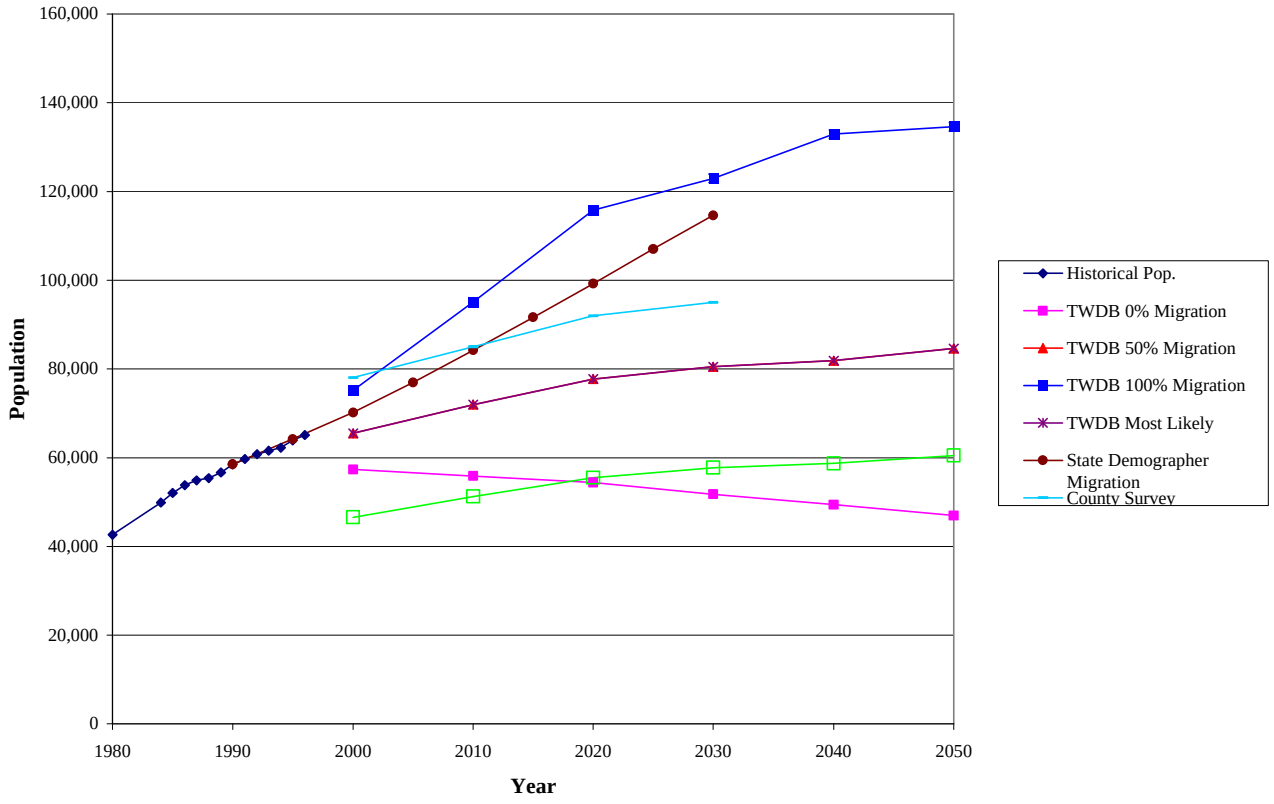

Figure D-10
Jack County
Historical and Projected Population

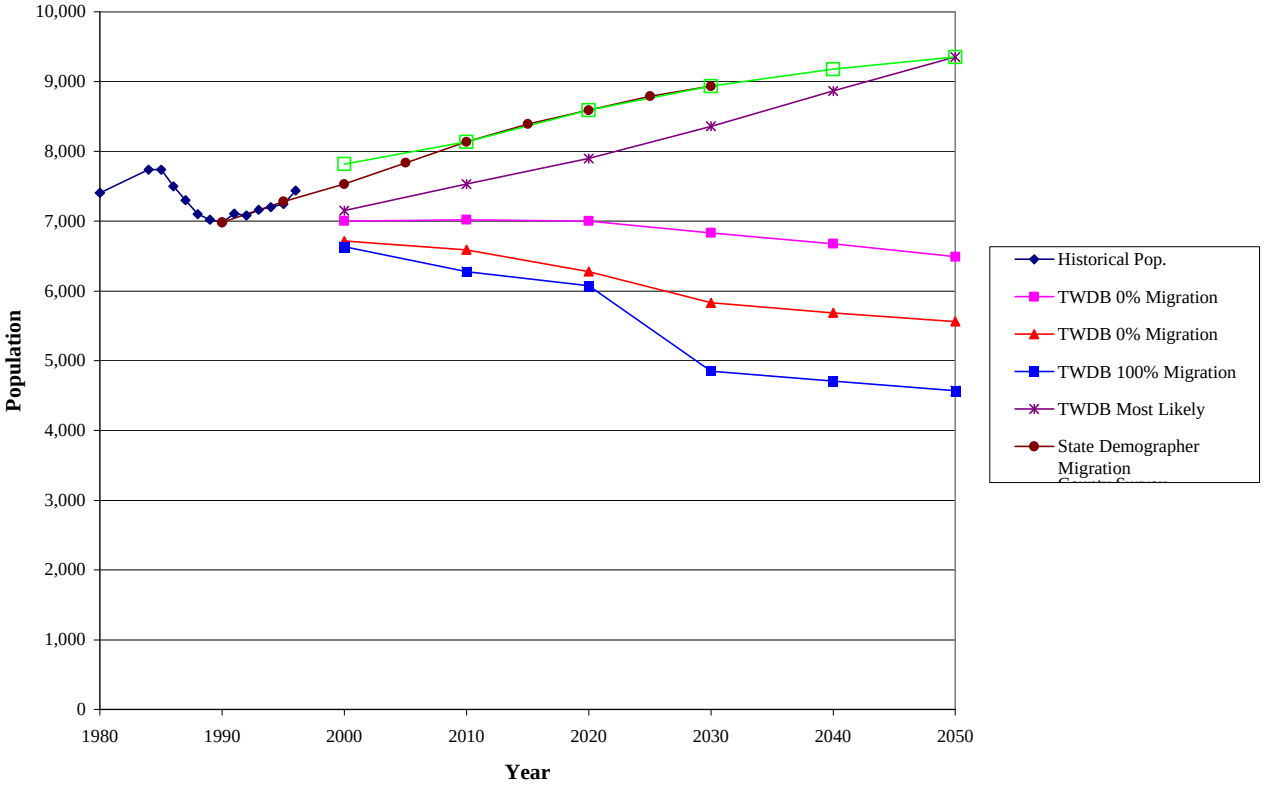

Figure D-11
Kaufman County
Historical and Projected Population

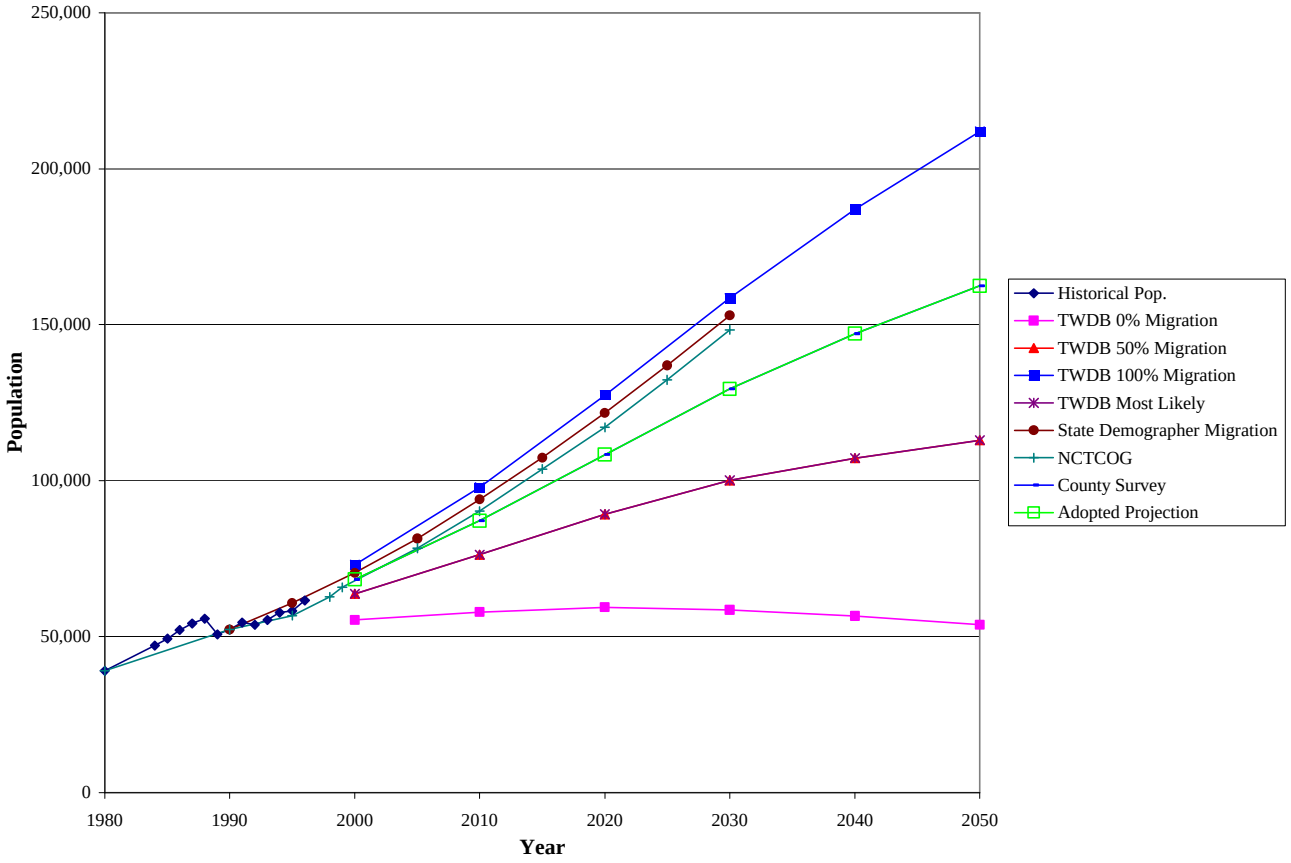

Figure D-12
Navarro County
Historical and Projected Population

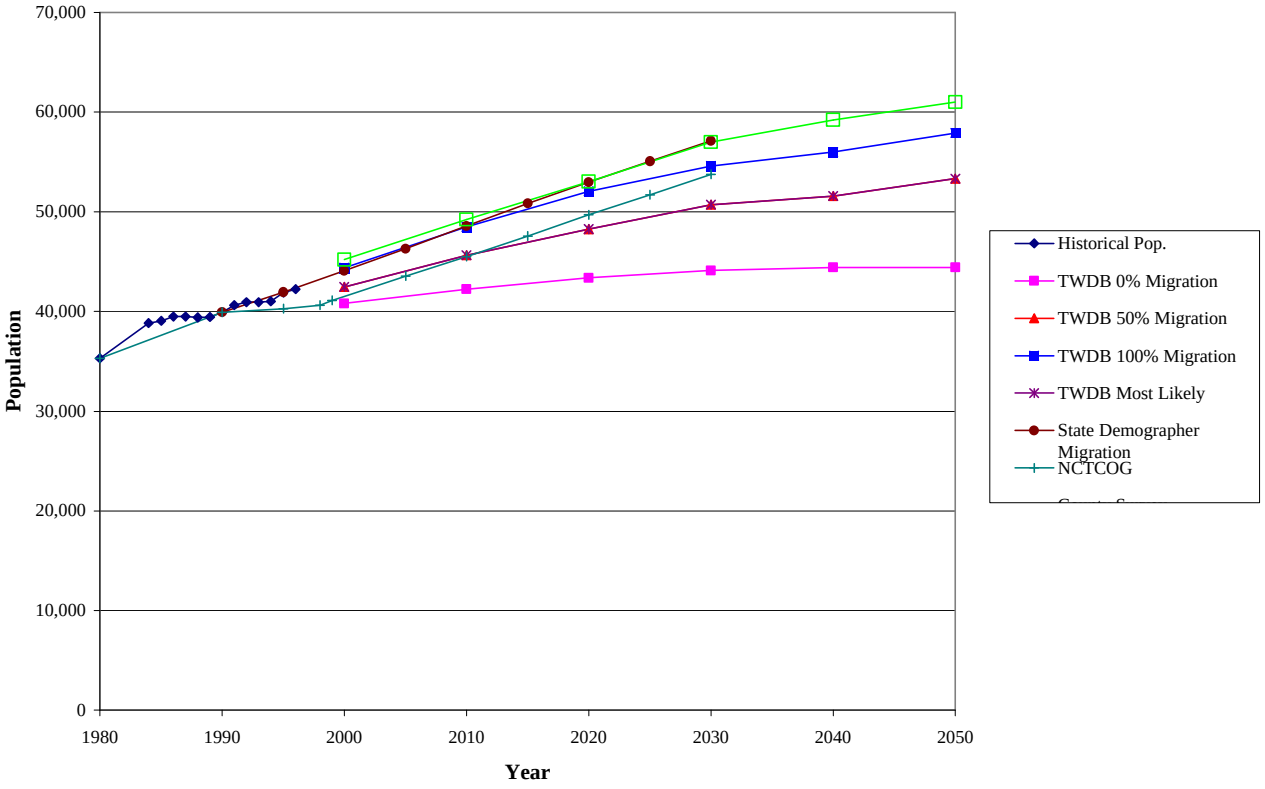

Figure D-13
Parker County
Historical and Projected Population

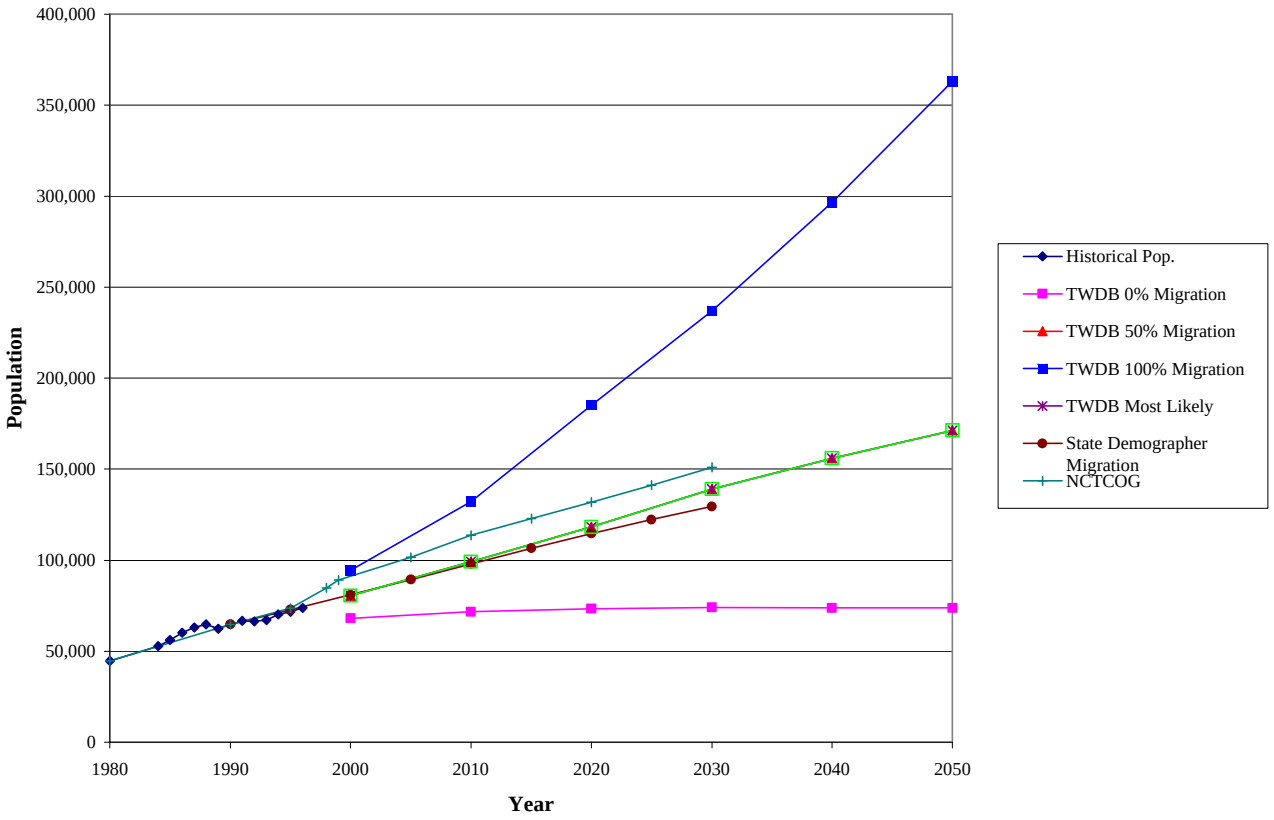

Figure D-14
Rockwall County
Historical and Projected Population

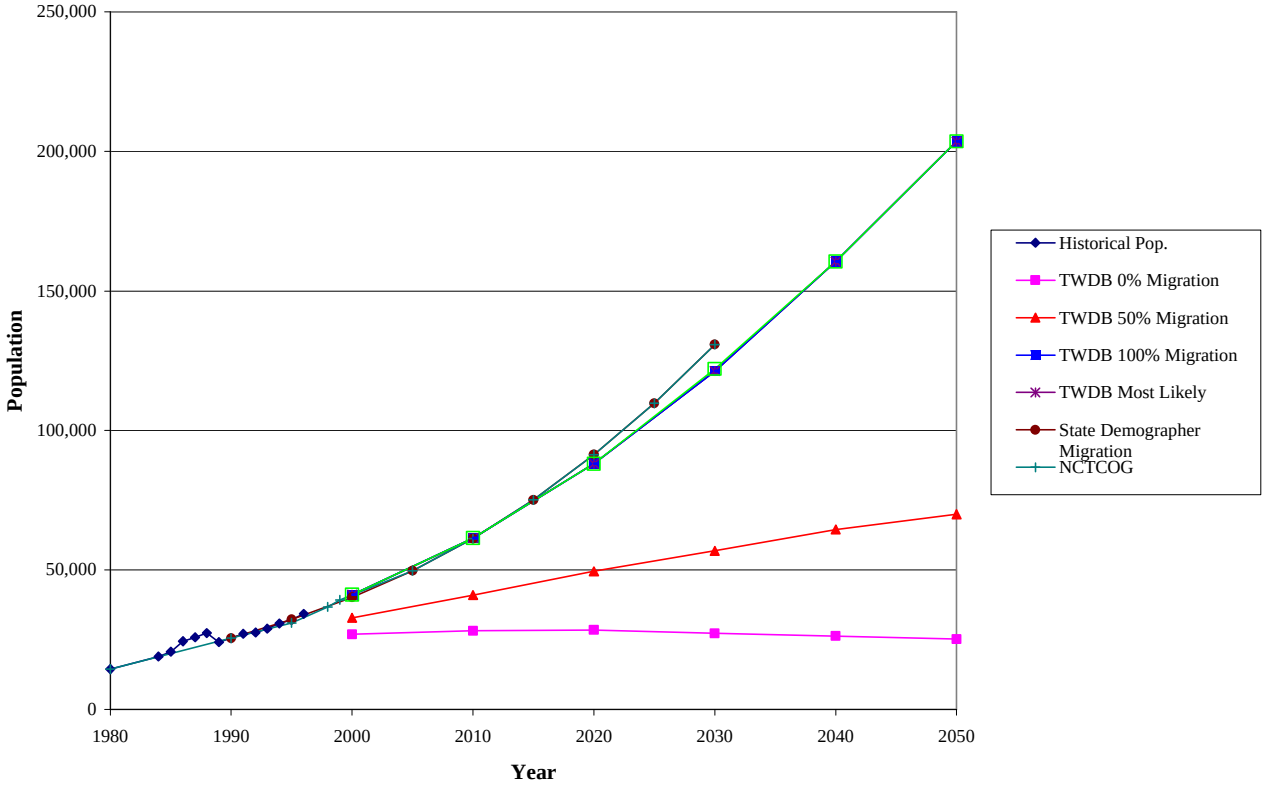

Figure D-15
Tarrant County
Historical and Projected Population

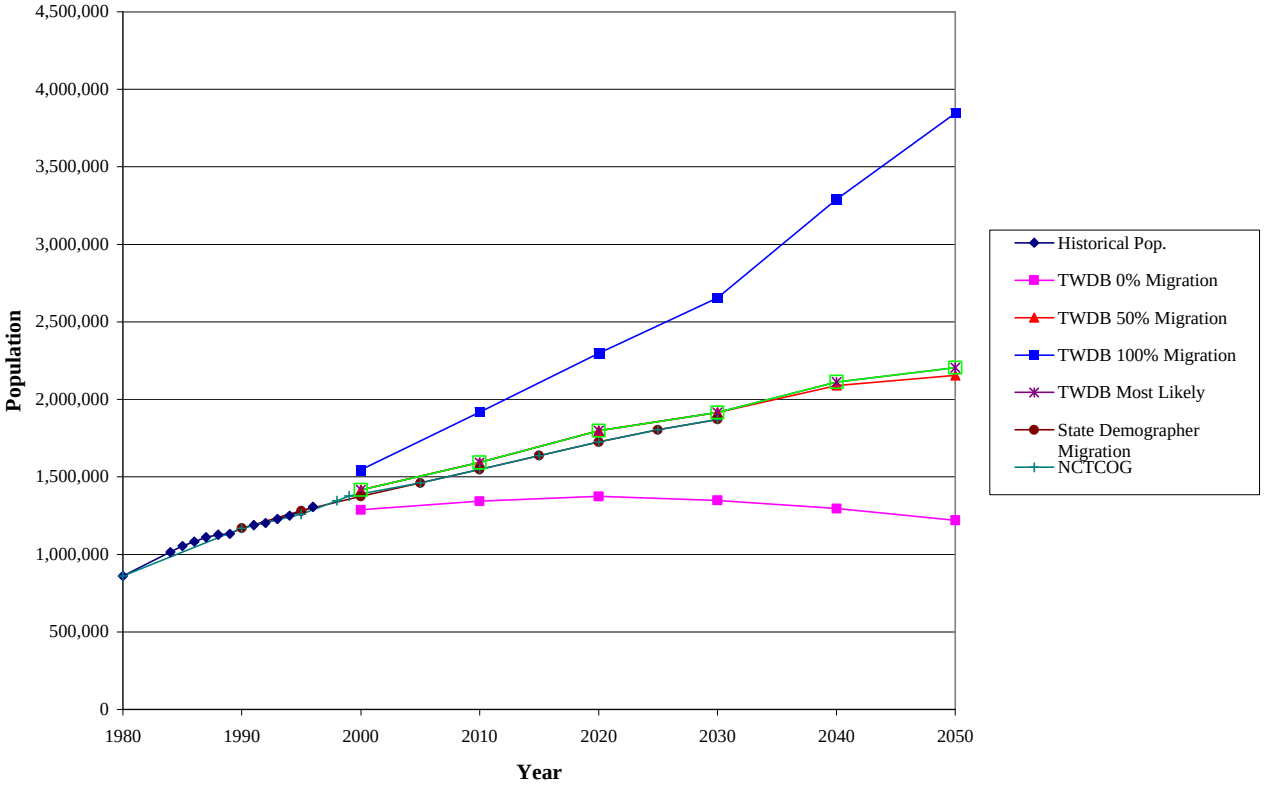

Figure D-16
Wise County
Historical and Projected Population

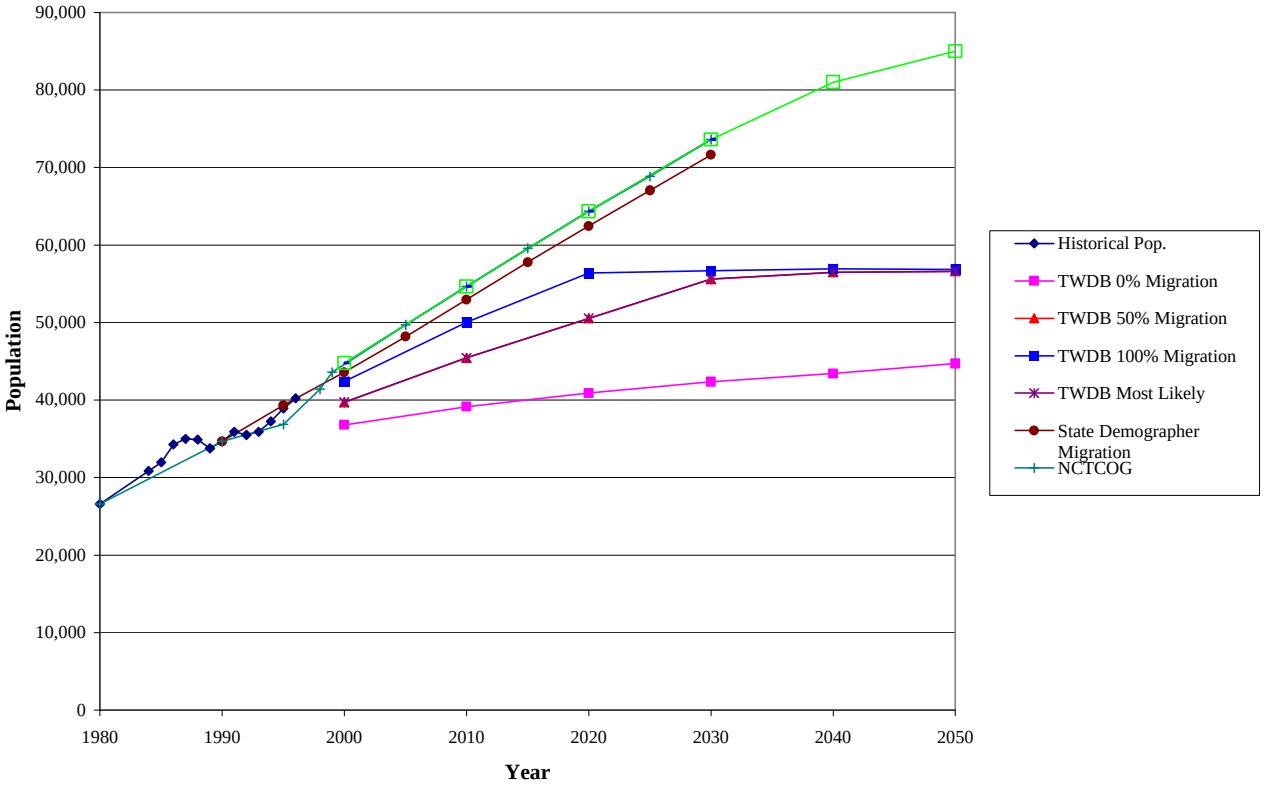

Table D-1
Cities with Per Capita Higher that TWDB Year 2000 Projections

County	City	Actual per Capita Use			TWDB	%
		1998	Highest, 1988-98	Year of Highest	Year 2000	Difference
Collin	Allen	209	209	1998	157	33.1%
Collin	Blue Ridge	N/A	121	1996	110	10.0%
Collin	Celina	N/A	151	1993	135	11.9%
Collin	Fairview	N/A	265	1996	212	25.0%
Collin	Frisco*	269	269	1998	198	35.9%
Collin	McKinney	263	263	1998	169	55.6%
Collin	Parker	256	256	1998	180	42.2%
Collin	Plano*	257	257	1998	211	21.8%
Collin	Princeton	128	128	1998	94	36.2%
Collin	Prosper	N/A	161	1995	117	37.6%
Cooke	Gainesville	N/A	201	1994	149	34.9%
Cooke	Lindsay	N/A	122	1997	113	8.0%
Cooke	Valley View	N/A	90	1996	84	7.1%
Dallas	Addison	475	475	1998	442	7.5%
Dallas	Balch Springs	112	116	1996	94	23.4%
Dallas	Cockrell Hill	139	139	1998	99	40.4%
Dallas	DeSoto	190	190	1998	170	11.8%
Dallas	Duncanville	182	182	1998	162	12.3%
Dallas	Grapevine	N/A	191	1996	180	6.1%
Dallas	Hutchins	220	220	1998	176	25.0%
Dallas	Lancaster	157	157	1998	131	19.8%
Dallas	Lewisville	231	231	1998	215	7.4%
Dallas	Richardson*	275	275	1998	233	18.0%
Dallas	Sachse*	171	171	1998	142	20.4%
Dallas	Seagoville	144	144	1998	125	15.2%
Dallas	Sunnyvale	269	269	1998	225	19.6%
Dallas	Wilmer	N/A	104	1993	88	18.2%
Denton	Argyle	N/A	209	1996	151	38.4%
Denton	Aubrey	N/A	99	1997	88	12.5%
Denton	Double Oak	N/A	142	1996	125	13.6%
Denton	Flower Mound	195	195	1998	183	6.6%
Denton	Hebron	N/A	120	1993	102	17.6%
Denton	Justin	N/A	135	1996	110	22.7%
Denton	Little Elm	N/A	131	1997	114	14.9%
Denton	Pilot Point	N/A	135	1996	123	9.8%
Denton	Shady Shores	N/A	90	1996	66	36.4%

Table D-1, continued

County	City	Actual per Capita Use			TWDB	%
		1998	Highest, 1988-98	Year of Highest	Year 2000	Difference
Denton	Trophy Club	N/A	275	1996	164	67.7%
Ellis	Ferris	N/A	133	1995	121	9.9%
Ellis	Maypearl	N/A	147	1997	72	104.2%
Ellis	Midlothian	N/A	176	1992	149	18.1%
Ellis	Oak Leaf	N/A	140	1997	121	15.7%
Ellis	Pecan Hill	N/A	141	1997	121	16.5%
Ellis	Waxahachie	N/A	296	1989	224	32.1%
Fannin	Honey Grove	N/A	203	1995	118	72.0%
Freestone	Fairfield	N/A	166	1996	152	9.2%
Freestone	Wortham	N/A	202	1995	145	39.3%
Grayson	Collinsville	N/A	115	1996	104	10.6%
Grayson	Denison	N/A	198	1996	160	23.8%
Grayson	Howe	N/A	144	1993	124	16.1%
Grayson	Luella	N/A	133	1996	121	9.9%
Grayson	Pottsboro	N/A	140	1993	107	30.8%
Grayson	Sherman	N/A	193	1996	136	41.9%
Grayson	Tioga	N/A	167	1997	106	57.5%
Grayson	Tom Bean	N/A	182	1996	143	27.3%
Grayson	Whitesboro	N/A	167	1997	121	38.0%
Grayson	Whitewright	N/A	163	1997	135	20.7%
Henderson	Gun Barrel City	N/A	200	1996	93	115.1%
Henderson	Malakoff	N/A	161	1995	133	21.1%
Henderson	Payne Springs	N/A	185	1997	63	193.7%
Henderson	Seven Points	N/A	110	1996	95	15.8%
Henderson	Tool	N/A	150	1996	108	38.9%
Jack	Jacksboro	N/A	150	1996	118	27.1%
Kaufman	Crandall	N/A	143	1996	125	14.4%
Kaufman	Forney	160	160	1998	105	52.4%
Kaufman	Kaufman	122	122	1998	100	22.0%
Kaufman	Kemp	N/A	133	1992	108	23.1%
Navarro	Corsicana	N/A	195	1997	179	8.9%
Navarro	Dawson	N/A	188	1996	164	14.6%
Parker	Springtown	N/A	151	1993	131	15.3%
Parker	Weatherford	N/A	157	1997	136	15.4%
Rockwall	Heath	N/A	172	1997	122	41.0%
Rockwall	Rockwall	193	193	1998	164	17.7%

Table D-1, continued

County	City	Actual per Capita Use			TWDB	%
		1998	Highest, 1988-98	Year of Highest	Year 2000	Difference
Rockwall	Royse City*	148	175	1995	128	36.7%
Tarrant	Arlington	185	185	1998	168	10.1%
Tarrant	Azle	135	135	1998	106	27.4%
Tarrant	Bedford	N/A	194	1988	177	9.6%
Tarrant	Benbrook	191	191	1998	167	14.4%
Tarrant	Burleson*	131	131	1998	107	22.4%
Tarrant	Colleyville	269	269	1998	214	25.7%
Tarrant	Dalworthington Gardens	245	245	1998	227	7.9%
Tarrant	Edgecliff Village	171	171	1998	141	21.3%
Tarrant	Fort Worth	219	219	1998	202	8.4%
Tarrant	Haltom City	145	145	1998	122	18.9%
Tarrant	Haslet	179	179	1996	139	28.8%
Tarrant	Lake Worth Village	135	177	1992	129	37.2%
Tarrant	Mansfield*	195	195	1998	143	36.4%
Tarrant	North Richland Hills	154	154	1998	120	28.3%
Tarrant	Saginaw	151	151	1998	135	11.9%
Tarrant	Sansom Park Village	121	121	1998	97	24.7%
Tarrant	Watauga	N/A	137	1998	122	12.3%
Wise	Boyd	N/A	141	1992	121	16.5%
Wise	Bridgeport	N/A	213	1997	122	74.6%

Notes:

a. Cities marked (*) have population in more than one county.

b. Cities listed had recent per capita water use exceed the TWDB projection by 5% or more.

c. N/A means data are not available.

Table D-2
Comparison of Adopted City Population Projections and Previous TWDB Population Projections with Reasons

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Allen	Collin		125,136	125,136	0	0.0%	X						
Anna	Collin		1,622	1,622	0	0.0%	X						
Blue Ridge	Collin		789	789	0	0.0%	X						
Celina	Collin		5,255	39,952	34,697	660.3%					X		
Dallas	Collin	P	44,832	44,832	0	0.0%	X						
Fairview	Collin		6,028	6,538	510	8.5%		X	X		X		
Farmersville	Collin		7,361	7,729	368	5.0%		X	X				
Frisco	Collin	P	52,232	272,000	219,768	420.8%		X	X		X		
Garland	Collin	P	48	48	0	0.0%	X						
Lucas	Collin		8,439	8,439	0	0.0%	X						
Mckinney	Collin		74,698	277,200	202,502	271.1%		X	X		X		
Melissa	Collin		1,579	1,579	0	0.0%	X						
Murphy	Collin		4,370	18,600	14,230	325.6%		X	X		X		
New Hope	Collin		669	720	51	7.6%		X	X				
Parker	Collin		3,936	34,000	30,064	763.8%		X	X		X		
Plano	Collin	P	457,841	276,000	-181,841	-39.7%						X	
Princeton	Collin		1,898	7,500	5,602	295.2%		X	X		X		
Prosper	Collin		3,642	30,000	26,358	723.7%		X	X		X		
Richardson	Collin	P	17,981	17,981	0	0.0%	X						
Royse City	Collin	P	886	886	0	0.0%	X						
Sachse	Collin	P	839	839	0	0.0%	X						
Wylie	Collin	P	30,251	69,120	38,869	128.5%					X		
County-Other	Collin		312,150	259,885	-52,265	-16.7%							Adjust for County total.
Gainesville	Cooke		18,302	22,388	4,086	22.3%		X	X				
Lindsay	Cooke		1,087	1,087	0	0.0%	X						
Muenster	Cooke		1,828	2,175	347	19.0%		X	X				City input
Valley View	Cooke		564	1,039	475	84.2%					X		
County-Other	Cooke		16,040	15,811	-229	-1.4%							Adjust for County total.
Addison	Dallas		21,246	22,156	910	4.3%		X	X				
Balch Springs	Dallas		26,420	24,704	-1,716	-6.5%						X	Early growth too high/ Buildout.
Carrollton	Dallas	P	54,527	64,343	9,816	18.0%		X	X				
Cedar Hill	Dallas	P	101,196	87,318	-13,878	-13.7%		X	X				
Cockrell Hill	Dallas		3,882	4,442	560	14.4%		X	X				
Combine	Dallas	P	937	937	0	0.0%	X						

Reasons:
1. Current Population Exceeds TWDB Year 2000 Projections.
2. Recent Growth Trends Exceed TWDB's Projected Trends.
3. City Limit Growth Through Annexation.
4. Urbanization.
5. Buildout.
6. Other.

Table D-2, continued

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Coppell	Dallas		89,118	44,689	-44,429	-49.9%		X				X	
Dallas	Dallas	P	1,189,062	1,211,933	22,871	1.9%		X	X				
De Soto	Dallas		80,944	82,923	1,979	2.4%		X	X				
Duncanville	Dallas		43,989	43,985	-4	0.0%	X						
Farmers Branch	Dallas		37,815	39,629	1,814	4.8%		X	X				
Garland	Dallas	P	217,516	234,904	17,388	8.0%		X	X				
Glenn Heights	Dallas	P	9,459	10,089	630	6.7%		X	X				
Grand Prairie	Dallas	P	104,243	106,586	2,343	2.2%		X	X				
Grapevine	Dallas	P	156	156	0	0.0%	X						
Highland Park	Dallas		11,858	11,858	0	0.0%	X						
Hutchins	Dallas		7,935	7,603	-332	-4.2%							Population adjusted for NCTCOG.
Irving	Dallas		279,929	289,423	9,494	3.4%		X	X				
Lancaster	Dallas		30,740	31,993	1,253	4.1%						X	No decline in population.
Lewisville	Dallas	P	2,168	2,168	0	0.0%	X						
Mesquite	Dallas		221,454	221,454	0	0.0%	X						
Ovilla	Dallas	P	586	586	0	0.0%	X						
Richardson	Dallas	P	99,739	99,739	0	0.0%	X						
Rowlett	Dallas	P	77,924	77,924	0	0.0%	X						
Sachse	Dallas	P	25,423	25,423	0	0.0%	X						
Seagoville	Dallas		27,761	25,474	-2,287	-8.2%			X				Early growth too high.
Sunnyvale	Dallas		8,595	8,595	0	0.0%	X						
University Park	Dallas		27,319	27,319	0	0.0%	X						
Wilmer	Dallas		2,966	3,159	193	6.5%			X				No decline after 2030.
County-Other	Dallas		455,088	448,483	-6,605	-1.5%							Adjust for County total.
Argyle	Denton		4,586	18,282	13,696	298.6%		X	X		X		
Aubrey	Denton		4,733	7,739	3,006	63.5%		X	X		X		
Bartonville	Denton		2,287	12,085	9,798	428.4%		X	X		X		
Carrollton	Denton	P	65,719	65,719	0	0.0%	X						
Copper Canyon	Denton		2,987	6,900	3,913	131.0%					X		
Corinth	Denton		30,632	30,632	0	0.0%	X						
Crossroads	Denton		0	18,902	18,902	0.0%							Missing from TWDB database.
Dallas	Denton	P	32,192	32,192	0	0.0%	X						
Denton	Denton		142,813	298,700	155,887	109.2%		X	X		X		
Double Oak	Denton		6,004	4,500	-1,504	-25.0%		X	X			X	

Reasons:
1. Current Population Exceeds TWDB Year 2000 Projections.
2. Recent Growth Trends Exceed TWDB's Projected Trends.
3. City Limit Growth Through Annexation.
4. Urbanization.
5. Buildout.
6. Other.

Table D-2, continued

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Flower Mound	Denton		147,635	147,762	127	0.1%		X	X				
Frisco	Denton	P	2,271	2,271	0	0.0%	X						
Haslet	Denton		2,321	0	-2,321	-100.0%							In Tarrant County not Denton County.
Hebron	Denton		4,727	4,727	0	0.0%	X						
Hickory Creek	Denton		7,062	8,409	1,347	19.1%					X		
Highland Village	Denton		29,649	20,500	-9,149	-30.9%			X			X	
Justin	Denton		6,846	14,112	7,266	106.1%					X		
Krugerville	Denton		2,372	2,560	188	7.9%		X	X		X		
Krum	Denton		7,058	7,058	0	0.0%	X						
Lake Dallas	Denton		7,585	11,544	3,959	52.2%		X	X		X		
Lewisville	Denton	P	174,930	171,462	-3,468	-2.0%		X					
Lincoln Park	Denton		0	2,772	2,772	0.0%							Missing from TWDB database.
Little Elm	Denton		7,505	12,385	4,880	65.0%		X	X		X		
Northlake	Denton		0	40,000	40,000	0.0%							Missing from TWDB database.
Oak Point	Denton		1,873	11,867	9,994	533.6%		X	X		X		
Pilot Point	Denton		10,082	10,082	0	0.0%	X						
Plano	Denton	P	175	175	0	0.0%	X						
Ponder	Denton		0	8,350	8,350	0.0%							Missing from TWDB database.
Roanoke	Denton		6,910	7,518	608	8.8%		X	X				
Sanger	Denton		12,961	23,998	11,037	85.2%		X	X		X		
Shady Shores	Denton		3,303	4,770	1,467	44.4%		X	X		X		
Southlake	Denton	P	2,865	2,865	0	0.0%	X						
The Colony	Denton		32,665	65,145	32,480	99.4%		X	X		X		
Trophy Club	Denton		17,908	23,374	5,466	30.5%		X	X		X		
County-Other	Denton		354,910	250,642	-104,268	-29.4%							Adjust for County total.
Cedar Hill	Ellis	P	230	230	0	0.0%	X						
Ennis	Ellis		22,338	23,895	1,557	7.0%		X	X				
Ferris	Ellis		4,078	3,994	-84	-2.1%							Population overestimated.
Glenn Heights	Ellis	P	1,734	1,734	0	0.0%	X						
Grand Prairie	Ellis	P	220	220	0	0.0%	X						
Italy	Ellis		4,289	4,289	0	0.0%	X						
Mansfield	Ellis	P	2,071	2,071	0	0.0%	X						
Maypearl	Ellis		965	1,063	98	10.1%		X	X				
Midlothian	Ellis		20,815	20,815	0	0.0%	X						

Reasons:
1. Current Population Exceeds TWDB Year 2000 Projections.
2. Recent Growth Trends Exceed TWDB's Projected Trends.
3. City Limit Growth Through Annexation.
4. Urbanization.
5. Buildout.
6. Other.

Table D-2, continued

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Milford	Ellis		996	1,051	55	5.5%		X	X				
Oak Leaf	Ellis		2,020	2,089	69	3.4%		X	X				
Ovilla	Ellis	P	3,792	4,626	834	22.0%		X	X		X		Anticipate urbanization.
Palmer	Ellis		4,556	4,047	-509	-11.2%							Current population overestimated.
Pecan Hill	Ellis		739	822	83	11.2%		X	X				
Red Oak	Ellis		10,009	10,725	716	7.2%		X	X				
Venus	Ellis		1,331	-1,637	-2,968	-223.0%		X	X				Not in Region C, but in Region G.
Waxahachie	Ellis		40,681	45,041	4,360	10.7%					X		Growth rate continues through 2050.
County-Other	Ellis		83,859	58,652	-25,207	-30.1%							Adjust for County total.
Bonham	Fannin		5,777	9,820	4,043	70.0%							Used county growth rate instead of decline.
Honey Grove	Fannin		1,431	2,577	1,146	80.1%		X	X				Used county growth rate instead of decline.
Leonard	Fannin		1,970	2,796	826	41.9%							Used county growth rate instead of decline.
Savoy	Fannin		1,096	974	-122	-11.2%							Growth estimated too high.
Trenton	Fannin		691	991	300	43.4%		X	X				Used county growth rate.
County-Other	Fannin		17,431	23,843	6,412	36.8%							Adjust for County total.
Fairfield	Freestone		5,238	5,238	0	0.0%	X						
Teague	Freestone		3,714	4,199	485	13.1%		X	X				
Wortham	Freestone		1,656	1,656	0	0.0%	X						
County-Other	Freestone		8,825	9,207	382	4.3%							Adjust for County total.
Bells	Grayson		896	1,597	701	78.2%			X				No decline-1% growth reflecting 90-97.
Collinsville	Grayson		1,441	1,652	211	14.6%		X	X				
Denison	Grayson		23,466	27,114	3,648	15.5%							Adjusted for no decline in growth rate.
Gunter	Grayson		1,546	1,546	0	0.0%	X						
Howe	Grayson		2,918	3,066	148	5.1%		X	X				
Luella	Grayson		731	801	70	9.6%		X	X				
Pottsboro	Grayson		2,382	3,331	949	39.9%		X	X				
Sherman	Grayson		37,295	45,048	7,753	20.8%		X	X		X		
Southmayd	Grayson		1,156	1,275	119	10.3%		X	X				
Tioga	Grayson		541	912	371	68.5%		X	X				No decline in population projected.
Tom Bean	Grayson		1,165	1,279	114	9.8%		X	X				
Van Alstyne	Grayson		3,696	8,134	4,438	120.1%		X	X		X		
Whitesboro	Grayson		3,196	4,500	1,304	40.8%		X	X				
Whitewright	Grayson		2,078	2,078	0	0.0%	X						
County-Other	Grayson		38,475	19,667	-18,808	-48.9%							Adjust for County total.

Reasons:
1. Current Population Exceeds TWDB Year 2000 Projections.
2. Recent Growth Trends Exceed TWDB's Projected Trends.
3. City Limit Growth Through Annexation.
4. Urbanization.
5. Buildout.
6. Other.

Table D-2, continued

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Athens	Henderson		14,717	17,406	2,689	18.3%		X	X				
Berryville	Henderson		1,158	-1,366				X	X				Not in Region C, but in Region I.
Eustace	Henderson		1,034	1,112	78	7.5%		X	X				
Gun Barrel City	Henderson		6,257	6,915	658	10.5%		X	X				
Mabank	Henderson	P	621	621	0	0.0%	X						
Malakoff	Henderson		2,945	3,071	126	4.3%		X	X				
Payne Springs	Henderson		950	1,081	131	13.8%		X	X				
Seven Points	Henderson		971	1,128	157	16.2%		X	X				
Tool	Henderson		2,626	2,920	294	11.2%		X	X				
Trinidad	Henderson		1,325	1,428	103	7.8%		X	X				
County-Other	Henderson		27,872	23,428	-4,444	-15.9%							Adjust for County total.
Bryson	Jack		565	612	47	8.3%		X	X				
Jacksboro	Jack		5,061	5,139	78	1.5%		X	X				
County-Other	Jack		3,726	3,611	-115	-3.1%							Adjust for County total.
Combine	Kaufman	P	1,893	2,793	900	47.5%		X	X				
Crandall	Kaufman		6,164	6,164	0	0.0%	X						
Dallas	Kaufman	P	8	8	0	0.0%	X						
Forney	Kaufman		7,209	35,000	27,791	385.5%					X		
Kaufman	Kaufman		10,711	16,560	5,849	54.6%		X	X		X		
Kemp	Kaufman		3,684	3,684	0	0.0%	X						
Mabank	Kaufman	P	4,748	4,748	0	0.0%	X						
Oak Grove	Kaufman		979	1,067	88	9.0%		X	X				
Terrell	Kaufman		25,430	26,338	908	3.6%		X	X				
County-Other	Kaufman		52,138	66,055	13,917	26.7%							Adjust for County total.
Blooming Grove	Navarro		687	1,007	320	46.6%		X	X				
Corsicana	Navarro		28,435	40,215	11,780	41.4%		X	X		X		
Dawson	Navarro		674	674	0	0.0%	X						
Frost	Navarro		479	700	221	46.2%		X	X				
Kerens	Navarro		2,173	1,700	-473	-21.8%							Historical trends say no growth.
Rice	Navarro		764	871	107	14.0%		X	X				Moved from Ellis County.
County-Other	Navarro		20,864	15,833	-5,031	-24.1%							Adjust for County total.
Aledo	Parker		4,218	3,346	-872	-20.7%							2000 too high.
Annetta	Parker		1,465	1,465	0	0.0%	X						
Azle	Parker	P	2,576	3,207	631	24.5%							No decline predicted.

Reasons:
1. Current Population Exceeds TWDB Year 2000 Projections.
2. Recent Growth Trends Exceed TWDB's Projected Trends.
3. City Limit Growth Through Annexation.
4. Urbanization.
5. Buildout.
6. Other.

Table D-2, continued

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Briar	Parker	P	1,324	1,324	0	0.0%	X						
Hudson Oaks	Parker		2,437	2,437	0	0.0%	X						
Mineral Wells	Parker		946	946	0	0.0%	X						
Reno	Parker		5,001	5,318	317	6.3%		X	X				
Springtown	Parker		5,970	5,970	0	0.0%	X						
Weatherford	Parker		43,248	45,824	2,576	6.0%		X	X				
Willow Park	Parker		7,687	7,687	0	0.0%	X						
County-Other	Parker		96,344	93,692	-2,652	-2.8%							Adjust for County total.
Dallas	Rockwall	P	131	131	0	0.0%	X						
Heath	Rockwall		13,847	17,856	4,009	29.0%		X	X				
Rockwall	Rockwall		96,076	96,076	0	0.0%	X						
Rowlett	Rockwall	P	42,258	42,258	0	0.0%	X						
Royse City	Rockwall	P	18,747	31,963	13,216	70.5%					X		
Wylie	Rockwall	P	84	84	0	0.0%	X						
County-Other	Rockwall		32,387	15,161	-17,226	-53.2%							Adjust for County total.
Arlington	Tarrant		413,986	413,986	0	0.0%	X						
Azle	Tarrant	P	18,477	18,477	0	0.0%	X						
Bedford	Tarrant		50,000	56,200	6,200	12.4%		X	X				Buildout est. too low.
Benbrook	Tarrant		33,130	33,130	0	0.0%	X						
Blue Mound	Tarrant		2,910	3,264	354	12.2%		X	X				
Briar	Tarrant	P	6,597	6,597	0	0.0%	X						
Burleson	Tarrant		3,364	3,364	0	0.0%	X						
Colleyville	Tarrant		53,560	44,771	-8,789	-16.4%			X				2000 too high.
Crowley	Tarrant		16,387	15,182	-1,205	-7.4%			X				2000 too high.
Dalworthington Gard.	Tarrant		5,052	5,052	0	0.0%	X						
Edgecliff	Tarrant		2,800	3,000	200	7.1%		X	X				Buildout est. too low.
Euless	Tarrant		53,634	58,848	5,214	9.7%		X	X				Buildout est. too low.
Everman	Tarrant		5,721	6,500	779	13.6%		X	X				Buildout est. too low.
Forest Hill	Tarrant		13,811	13,811	0	0.0%	X						
Fort Worth	Tarrant		671,067	671,067	0	0.0%	X						
Grand Prairie	Tarrant	P	57,485	57,485	0	0.0%	X						
Grapevine	Tarrant	P	61,535	61,969	434	0.7%			X				Used NCTCOG population estimate.
Haltom City	Tarrant		39,456	44,412	4,956	12.6%		X	X				
Haslet	Tarrant		2,321	2,808	487	21.0%		X	X				Moved from Denton County.

Reasons:
1. Current Population Exceeds TWDB Year 2000 Projections.
2. Recent Growth Trends Exceed TWDB's Projected Trends.
3. City Limit Growth Through Annexation.
4. Urbanization.
5. Buildout.
6. Other.

Table D-2, continued

City	County	Partial	TWDB 2050	Adopted 2050	Change	Percent Change	No Change	Reasons					
								1	2	3	4	5	6
Hurst	Tarrant		40,175	41,129	954	2.4%		X	X				
Keller	Tarrant		44,818	44,818	0	0.0%	X						
Kennedale	Tarrant		19,725	19,725	0	0.0%	X						
Lake Worth Village	Tarrant		5,976	5,976	0	0.0%	X						
Mansfield	Tarrant	P	86,968	86,968	0	0.0%	X						
Newark	Tarrant	P	0	0	0	0.0%	X						Moved to Wise County.
North Richland Hills	Tarrant		112,232	112,232	0	0.0%	X						
Pantego	Tarrant		2,751	2,751	0	0.0%	X						
Pelican Bay	Tarrant		4,112	3,344	-768	-18.7%			X				2000 too high.
Richland Hills	Tarrant		19,985	19,985	0	0.0%	X						
River Oaks	Tarrant		6,838	6,838	0	0.0%	X						
Saginaw	Tarrant		18,144	20,942	2,798	15.4%		X	X				
Sansom Park Village	Tarrant		4,192	4,192	0	0.0%	X						
Southlake	Tarrant	P	59,151	59,151	0	0.0%	X						
Watauga	Tarrant		29,383	29,906	523	1.8%		X	X				
Westworth Village	Tarrant		2,600	2,600	0	0.0%	X						
White Settlement	Tarrant		15,950	15,950	0	0.0%	X						
County-Other	Tarrant		222,344	209,180	-13,164	-5.9%							Adjust for County total.
Alvord	Wise		1,196	1,292	96	8.0%		X	X				
Aurora	Wise		854	1,049	195	22.8%		X	X				
Boyd	Wise		2,285	2,285	0	0.0%	X						
Briar	Wise	P	1,466	1,466	0	0.0%	X						
Bridgeport	Wise		5,605	7,200	1,595	28.4%		X	X				
Chico	Wise		993	1,074	81	8.1%		X	X				
Decatur	Wise		7,420	7,420	0	0.0%	X						
Newark	Wise	P	1,294	1,509	215	16.6%		X	X				Moved from Tarrant County.
Rhome	Wise		1,116	1,172	56	5.0%		X	X				
County-Other	Wise		35,696	60,535	24,839	69.6%							Adjust for County total.

Reasons:

1. Current Population Exceeds TWDB Year 2000 Projections.
2. Recent Growth Trends Exceed TWDB's Projected Trends.
3. City Limit Growth Through Annexation.
4. Urbanization.
5. Buildout.
6. Other.

Table D-3
Comparison of Approved City Water Demand Projections and Texas Water Development Board Projections with Reasons

City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons					
						1	2	3	4	5	6
Allen	Collin		17,101	33,921	16,820	0	7,429	9,391	0	0	0
Anna	Collin		167	182	15	0	0	0	15	0	0
Blue Ridge	Collin		78	106	28	0	0	0	0	28	0
Celina	Collin		671	8,503	7,832	4,431	0	0	0	3,401	0
Dallas	Collin	P	12,504	13,258	754	0	0	0	0	0	754
Fairview	Collin		1,013	1,831	818	86	388	344	0	0	0
Farmersville	Collin		858	1,212	354	43	0	0	0	311	0
Frisco	Collin	P	9,595	85,005	75,410	40,372	21,632	13,406	0	0	0
Garland	Collin	P	7	8	1	0	0	0	0	0	1
Lucas	Collin		1,465	1,560	95	0	0	0	0	95	0
McKinney	Collin		11,379	86,631	75,252	30,849	29,187	15,216	0	0	0
Melissa	Collin		99	203	104	0	0	0	0	104	0
Murphy	Collin		813	3,791	2,978	2,646	0	0	0	332	0
New Hope	Collin		88	94	6	6	0	0	0	0	0
Parker	Collin		630	10,816	10,186	4,816	2,894	2,476	0	0	0
Plano	Collin	P	86,158	79,763	-6,395	-34,221	14,221	13,605	0	0	0
Princeton	Collin		142	1,176	1,034	420	286	328	0	0	0
Prosper	Collin		371	5,578	5,207	2,687	1,479	1,041	0	0	0
Richardson	Collin	P	3,847	5,196	1,349	0	846	503	0	0	0
Royse City	Collin	P	103	194	91	0	35	56	0	0	0
Sachse	Collin	P	101	164	63	0	27	36	0	0	0
Wylie	Collin	P	4,473	10,993	6,520	5,747	0	773	0	0	0
Other	Collin		42,140	35,445	-6,695	-7,084	0	291	0	0	98
Gainesville	Cooke		2,563	4,012	1,449	572	652	226	0	0	-1
Lindsay	Cooke		110	138	28	0	0	0	28	0	0
Muenster	Cooke		291	346	55	55	0	0	0	0	0
Valley View	Cooke		39	145	106	33	45	12	17	0	-1
Other	Cooke		1,677	1,771	94	-24	0	0	124	0	-6
Addison	Dallas		9,091	13,650	4,559	389	819	1,638	0	0	1,713
Balch Springs	Dallas		2,012	3,459	1,447	-131	609	969	0	0	0

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3
Comparison of Approved City Water Demand Projections and Texas Water Development Board Projections with Reasons

Comments
Lower conservation decrease
Employment growth.

Table D-3, continued

City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons					
						1	2	3	4	5	6
Carrollton	Dallas	P	10,505	12,973	2,468	1,891	0	0	0	0	577
Cedar Hill	Dallas	P	18,363	18,095	-268	-2,518	0	0	0	2,250	0
Cockrell Hill	Dallas		317	647	330	46	204	80	0	0	0
Combine	Dallas	P	109	136	27	0	0	0	0	27	0
Coppell	Dallas		16,970	11,513	-5,457	-8,460	601	601	0	1,802	-1
Dallas	Dallas	P	331,648	358,390	26,742	6,379	19,006	1,357	0	0	0
DeSoto	Dallas		11,968	18,113	6,145	293	2,322	3,530	0	0	0
Duncanville	Dallas		6,159	9,361	3,202	0	985	985	0	0	1,232
Farmers Branch	Dallas		12,665	15,803	3,138	608	0	0	0	0	2,530
Garland	Dallas	P	30,943	37,101	6,158	2,474	0	0	0	0	3,684
Glenn Heights	Dallas	P	2,236	1,695	-541	149	0	0	0	0	-690
Grand Prairie	Dallas	P	13,545	16,715	3,170	304	358	836	0	0	1,672
Grapevine	Dallas	P	25	32	7	0	3	3	0	0	1
Highland Park	Dallas		4,290	4,290	0	0	0	0	0	0	0
Hutchins	Dallas		1,262	2,129	867	-53	409	511	0	0	0
Irving	Dallas		61,771	70,026	8,255	2,095	0	6,160	0	0	0
Lancaster	Dallas		3,478	5,017	1,539	142	932	465	0	0	0
Lewisville	Dallas	P	423	534	111	0	39	39	0	0	33
Mesquite	Dallas		31,256	36,465	5,209	0	2,481	2,728	0	0	0
Ovilla	Dallas	P	100	128	28	0	0	0	0	28	0
Richardson	Dallas	P	21,339	28,824	7,485	0	4,692	2,793	0	0	0
Rowlett	Dallas	P	12,831	14,053	1,222	0	0	0	0	0	1,222
Sachse	Dallas	P	3,076	4,955	1,879	0	826	1,054	0	0	-1
Seagoville	Dallas		3,047	4,280	1,233	-251	542	942	0	0	0
Sunnyvale	Dallas		1,733	2,320	587	0	424	163	0	0	0
University Park	Dallas		6,304	6,304	0	0	0	0	0	0	0
Wilmer	Dallas		206	478	272	13	113	71	0	0	75
Other	Dallas		145,750	143,637	-2,113	-2,113	0	0	0	0	0
Argyle	Denton		596	4,096	3,500	1,780	1,188	532	0	0	0
Aubrey	Denton		350	1,300	950	222	95	0	251	382	0

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3, continued

Comments
Commercialization
Employment growth
Lower conservation decrease
Decreased per capita
Commercial development
Commercialization
Lower conservation decrease

Table D-3, continued

City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons					
						1	2	3	4	5	6
Bartonville	Denton		182	2,707	2,525	779	1,313	433	0	0	0
Carrollton	Denton	P	12,662	13,251	589	0	0	0	0	0	589
Copper Canyon	Denton		391	1,546	1,155	513	379	263	0	0	0
Corinth	Denton		4,975	6,519	1,544	0	0	700	0	844	0
Cross Roads	Denton		0	2,964	2,964	2,964	0	0	0	0	0
Dallas	Denton	P	8,979	9,520	541	0	505	36	0	0	0
Denton	Denton		26,875	61,229	34,354	29,335	0	0	0	0	5,019
Double Oak	Denton		518	1,008	490	-130	86	86	0	448	0
Flower Mound	Denton		23,648	31,448	7,800	20	1,986	5,793	0	0	1
Frisco	Denton	P	417	728	311	0	181	130	0	0	0
Hebron	Denton		318	794	476	0	0	0	185	291	0
Hickory Creek	Denton		807	1,601	794	154	0	0	0	640	0
Highland Village	Denton		4,782	4,133	-649	-1,476	253	505	0	69	0
Justin	Denton		667	2,608	1,941	708	395	632	0	206	0
Krugerville	Denton		154	401	247	12	0	0	106	129	0
Krum	Denton		506	1,265	759	0	0	0	245	514	0
Lake Dallas	Denton		909	1,810	901	475	0	0	0	426	0
Lewisville	Denton	P	34,095	42,254	8,159	-676	3,073	3,073	0	0	2,689
Lincoln Park	Denton		0	435	435	435	0	0	0	0	0
Little Elm	Denton		757	1,942	1,185	492	236	277	0	180	0
Northlake	Denton		0	7,393	7,393	7,393	0	0	0	0	0
Oak Point	Denton		176	1,861	1,685	940	93	133	0	518	1
Pilot Point	Denton		1,095	1,694	599	0	136	226	0	237	0
Plano	Denton	P	33	51	18	0	9	9	0	0	0
Ponder	Denton		0	1,403	1,403	1,403	0	0	0	0	0
Roanoke	Denton		542	1,011	469	48	0	0	211	210	0
Sanger	Denton		1,205	4,032	2,827	1,026	0	0	323	1,478	0
Shady Shores	Denton		122	748	626	54	128	214	0	230	0
Southlake	Denton	P	584	745	161	0	161	0	0	0	0
The Colony	Denton		2,891	10,946	8,055	2,874	0	0	1,168	4,013	0

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3, continued

Comments
Split is approximate
Not in TWDB numbers
Slower conservation
Commercial development
Not in TWDB numbers
Not in TWDB numbers
Not in TWDB numbers

Table D-3, continued

City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons					
						1	2	3	4	5	6
Trophy Club	Denton		2,126	6,546	4,420	649	2,906	865	0	0	0
Other	Denton		35,790	42,113	6,323	-10,862	0	0	562	10,423	6,200
Cedar Hill	Ellis	P	42	48	6	0	0	0	0	6	0
Ennis	Ellis		3,528	4,015	487	246	0	0	0	241	0
Ferris	Ellis		448	582	134	-9	54	89	0	0	0
Glenn Heights	Ellis	P	410	291	-119	0	0	0	0	0	-119
Grand Prairie	Ellis	P	29	35	6	0	1	2	0	0	3
Italy	Ellis		360	673	313	0	0	0	96	217	0
Mansfield	Ellis	P	255	452	197	0	107	90	0	0	0
Maypearl	Ellis		55	182	127	6	89	32	0	0	0
Midlothian	Ellis		2,961	4,080	1,119	0	1,049	70	0	0	0
Milford	Ellis		91	149	58	6	0	0	5	47	0
Oak Leaf	Ellis		222	302	80	8	44	28	0	0	0
Ovilla	Ellis	P	646	1,010	364	142	135	87	0	0	0
Palmer	Ellis		424	521	97	-47	54	54	0	0	36
Pecan Hill	Ellis		81	127	46	9	18	0	0	19	0
Red Oak	Ellis		1,088	1,526	438	78	0	0	0	360	0
Venus	Ellis		192	-337	145	44	92	9	0	0	-337
Waxahachie	Ellis		8,157	8,930	773	874	0	0	0	0	-101
Other	Ellis		10,457	7,424	-3,033	-3,033	0	0	0	0	0
Bonham	Fannin		1,145	1,946	801	801	0	0	0	0	0
Honey Grove	Fannin		156	526	370	125	245	0	0	0	0
Leonard	Fannin		256	363	107	107	0	0	0	0	0
Savoy	Fannin		93	104	11	-10	0	0	21	0	0
Trenton	Fannin		120	172	52	52	0	0	0	0	0
Other	Fannin		1,510	2,537	1,027	553	187	187	0	0	100
Fairfield	Freestone		751	880	129	0	82	47	0	0	0
Teague	Freestone		429	470	41	56	0	0	0	0	-15
Wortham	Freestone		226	331	105	0	124	0	0	0	-19
Other	Freestone		899	1,031	132	39	0	0	93	0	0

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3, continued

Comments
Better supply and growth
Future growth at typical urban
Commercial development
Future growth at typical urban
Future growth at typical urban
Future growth at typical urban
Not in Region C, but in Region G.
Slower conservation

Table D-3, continued

City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons					
						1	2	3	4	5	6
Bells	Grayson		106	193	87	83	4	0	0	0	0
Collinsville	Grayson		128	176	48	19	0	0	29	0	0
Denison	Grayson		3,575	4,131	556	556	0	0	0	0	0
Gunter	Grayson		184	234	50	0	17	33	0	0	0
Howe	Grayson		330	426	96	17	69	0	0	0	10
Louella	Grayson		80	117	37	8	11	18	0	0	0
Pottsboro	Grayson		219	482	263	87	123	53	0	0	0
Sherman	Grayson		4,679	8,830	4,151	973	2,876	302	0	0	0
Southmayd	Grayson		136	160	24	14	0	0	0	0	10
Tioga	Grayson		50	123	73	34	39	0	0	0	0
Tom Bean	Grayson		157	215	58	15	56	0	0	0	-13
Van Alstyne	Grayson		484	1,367	883	582	0	0	0	301	0
Whitesboro	Grayson		347	731	384	142	232	10	0	0	0
Whitewright	Grayson		261	302	41	0	41	0	0	0	0
Other	Grayson		4,590	2,974	-1,616	-2,254	0	0	0	638	0
Athens	Henderson		3,000	2,925	-75	548	0	0	0	0	-623
Berryville	Henderson		119	0	-119	0	0	0	0	0	-119
Eustace	Henderson		105	125	20	8	0	0	12	0	0
Gun Barrel City	Henderson		484	1,369	885	52	829	4	0	0	0
Mabank	Henderson	P	160	115	-45	0	0	0	0	0	-45
Malakoff	Henderson		366	478	112	16	96	0	0	0	0
Payne Springs	Henderson		45	199	154	6	148	0	0	0	0
Seven Points	Henderson		80	120	40	13	19	0	8	0	0
Tool	Henderson		244	409	165	27	137	0	0	0	1
Trinidad	Henderson		217	200	-17	17	0	0	0	0	-34
Other	Henderson		3,003	2,777	-226	-478	0	0	258	0	-6
Bryson	Jack		54	65	11	4	3	0	4	0	0
Jacksboro	Jack		550	806	256	8	184	64	0	0	0
Other	Jack		386	425	39	-13	0	0	13	0	39
Combine	Kaufman	P	221	454	233	0	0	0	0	233	0

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3, continued

Comments
Not in Region C, but in Region I.

Table D-3, continued

City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons					
						1	2	3	4	5	6
Crandall	Kaufman		621	898	277	0	124	153	0	0	0
Dallas	Kaufman	P	2	2	0	0	0	0	0	0	0
Forney	Kaufman		662	7,331	6,669	2,553	2,156	1,960	0	0	0
Kaufman	Kaufman		924	1,855	931	504	408	19	0	0	0
Kemp	Kaufman		355	413	58	0	103	0	0	0	-45
Mabank	Kaufman	P	1,223	878	-345	0	0	0	0	0	-345
Oak Grove	Kaufman		80	120	40	7	0	0	33	0	0
Terrell	Kaufman		4,558	4,721	163	163	0	0	0	0	0
Other	Kaufman		5,813	7,769	1,956	1,574	0	0	0	0	382
Blooming Grove	Navarro		66	107	41	31	0	0	10	0	0
Corsicana	Navarro		4,905	7,298	2,393	2,032	721	0	0	0	-360
Dawson	Navarro		106	121	15	0	18	0	0	0	-3
Frost	Navarro		49	79	30	23	0	0	7	0	0
Kerens	Navarro		190	190	0	-41	0	0	41	0	0
Rice	Navarro		183	209	26	26	0	0	0	0	0
Other	Navarro		2,045	1,933	-112	-496	0	0	0	0	384
Aledo	Parker		378	869	491	86	0	0	0	405	0
Annetta	Parker		128	874	746	419	0	0	0	327	0
Azle	Parker	P	237	528	291	58	104	104	0	25	0
Briar	Parker	P	148	172	24	0	0	0	0	24	0
Hudson Oaks	Parker		213	1,746	1,533	695	0	0	314	525	-1
Mineral Wells	Parker		150	150	0	0	0	0	0	0	0
Reno	Parker		336	745	409	21	0	0	328	60	0
Springtown	Parker		655	1,037	382	0	134	167	0	81	0
Weatherford	Parker		4,990	15,533	10,543	5,676	2,175	2,692	0	0	0
Willow Park	Parker		1,007	2,908	1,901	1,261	0	0	0	640	0
Other	Parker		8,373	4,020	-4,353	-6,327	0	0	456	1,518	0
Dallas	Rockwall	P	37	39	2	2	0	0	0	0	0
Heath	Rockwall		1,536	3,000	1,464	445	1,000	19	0	0	0
Rockwall	Rockwall		14,421	24,426	10,005	0	3,121	6,888	0	0	-4

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3, continued

Comments
Slower conservation

Table D-3, continued

City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons					
						1	2	3	4	5	6
Rowlett	Rockwall	P	6,958	7,621	663	0	0	0	0	0	663
Royse City	Rockwall	P	2,184	5,764	3,580	1,540	1,683	357	0	0	0
Wylie	Rockwall	P	12	13	1	1	0	0	0	0	0
Other	Rockwall		6,929	3,244	-3,685	-3,685	0	0	0	0	0
Arlington	Tarrant		62,139	83,470	21,331	0	7,883	13,448	0	0	0
Azle	Tarrant	P	1,697	3,042	1,345	0	600	745	0	0	0
Bedford	Tarrant		7,953	9,946	1,993	986	1,007	0	0	0	0
Benbrook	Tarrant		4,824	6,383	1,559	0	891	668	0	0	0
Blue Mound	Tarrant		205	347	142	25	29	0	88	0	0
Briar	Tarrant	P	739	857	118	0	0	0	0	118	0
Burleson	Tarrant		298	528	230	0	90	140	0	0	0
Colleyville	Tarrant		10,199	12,136	1,937	-1,674	2,758	853	0	0	0
Crowley	Tarrant		1,377	2,126	749	-101	136	0	0	714	0
Dalworthington Gardens	Tarrant		1,053	1,251	198	0	102	96	0	0	0
Edgecliff Village	Tarrant		332	518	186	24	101	61	0	0	0
Euless	Tarrant		8,952	9,492	540	870	0	0	0	0	-330
Everman	Tarrant		455	692	237	62	0	0	175	0	0
Forest Hill	Tarrant		1,284	1,779	495	0	124	0	62	0	309
Fort Worth	Tarrant		127,788	155,600	27,812	0	12,779	15,033	0	0	0
Grand Prairie	Tarrant	P	7,469	9,015	1,546	0	193	451	0	0	902
Grapevine	Tarrant	P	9,995	11,856	1,861	66	694	694	0	0	407
Haltom City	Tarrant		4,022	6,517	2,495	505	1,144	846	0	0	0
Haslet	Tarrant		299	503	204	63	126	15	0	0	0
Hurst	Tarrant		5,445	6,818	1,373	129	230	460	0	0	554
Keller	Tarrant		8,735	7,882	-853	0	0	0	0	0	-853
Kennedale	Tarrant		3,712	3,513	-199	0	0	0	0	0	-199
Lake Worth Village	Tarrant		656	937	281	0	281	0	0	0	0
Mansfield	Tarrant	P	10,716	16,561	5,845	0	5,706	139	0	0	0
North Richland Hills	Tarrant		11,314	17,475	6,161	0	4,274	1,887	0	0	0
Pantego	Tarrant		521	582	61	0	0	0	0	0	61

Notes:
1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3, continued

Comments
Slower conservation
Future growth at typical urban
Commercial development
Commercial development

Table D-3, continued

City	County	Partial	TWDB 2050	Adopted 2050	Total Change	Reasons					
						1	2	3	4	5	6
Pelican Bay	Tarrant		143	431	288	-27	34	0	206	75	0
Richland Hills	Tarrant		2,328	2,709	381	0	0	0	0	0	381
River Oaks	Tarrant		835	881	46	0	0	0	0	0	46
Saginaw	Tarrant		2,093	3,519	1,426	323	375	728	0	0	0
Sansom Park Village	Tarrant		329	512	183	0	113	70	0	0	0
Southlake	Tarrant	P	12,059	15,383	3,324	0	2,319	1,005	0	0	0
Watauga	Tarrant		2,995	4,656	1,661	53	1,072	536	0	0	0
Westworth Village	Tarrant		146	277	131	0	0	0	131	0	0
White Settlement	Tarrant		1,965	2,055	90	0	0	0	0	0	90
Other	Tarrant		31,632	30,054	-1,578	-1,825	0	0	0	0	247
Alvord	Wise		135	166	31	11	0	0	0	0	20
Aurora	Wise		82	159	77	19	0	0	11	0	47
Boyd	Wise		243	346	103	0	0	0	0	0	103
Briar	Wise	P	164	190	26	0	26	0	0	0	0
Bridgeport	Wise		615	1,210	595	175	734	0	0	0	-314
Chico	Wise		174	168	-6	14	0	0	0	0	-20
Decatur	Wise		1,346	1,346	0	0	0	0	0	0	0
Newark	Wise		141	197	56	23	0	0	0	0	33
Rhome	Wise		119	237	118	6	0	0	0	0	112
Other	Wise		3,291	9,493	6,202	2,282	0	0	882	3,038	0

Notes:

1. Population Change.
2. Actual Per Capita Use Increase.
3. Continuing Trends.
4. Minimum Per Capita Consumption.
5. Future Development.
6. Other.

Table D-3, continued

Comments
Better supply and growth
Better supply and growth
Better supply and growth
Better supply and growth

Table D-4
Unaccounted Water for Region C

County	Entity	1997 WateUse in Acre-Feet	1997 Unaccounted Water in Percent
Collin	Anna	153	28.1%
Collin	Celina	283	20.6%
Collin	Frisco	4,402	11.1%
Collin	McKinney	9,177	22.1%
Collin	Plani	47,144	15.5%
Collin	Desert WSC	113	12.7%
Collin	Frognot WSC	119	9.9%
Collin	Josephine WSC	71	0.9%
Collin	Nevada WSC	122	4.1%
Collin	Verona WSC	171	16.3%
Cooke	Woodbine WSC	429	14.6%
Dallas	Addison	5,477	4.9%
Dallas	Cedar Hill	4,722	21.0%
Dallas	Cockrell Hill	464	33.5%
Dallas	Coppell	5,938	1.0%
Dallas	Dallas	442,960	10.0%
Dallas	De Soto	6,878	18.6%
Dallas	Farmers Branch	9,331	8.8%
Dallas	Garland	33,838	0.7%
Dallas	Glenn Heights	736	14.0%
Dallas	Grand Prairie	18,130	12.8%
Dallas	Mesquite	17,634	4.0%
Dallas	Richardson	24,897	9.0%
Dallas	Wilmer	312	15.5%
Denton	Argyle WSC	605	7.9%
Denton	Denton	16,909	4.2%
Denton	Trophy Club MUD #1	1,427	5.2%
Denton	Highland Village	1,904	1.8%
Denton	Krum	211	6.8%
Denton	Lake Cities MUA	1,003	9.5%
Denton	Lewisville	11,880	14.9%
Denton	Little Elm	228	8.0%
Denton	Ponder	109	0.2%
Denton	Mustang WSC	440	8.8%
Ellis	Ennis	2,643	18.5%
Ellis	Ferris	348	18.3%
Ellis	Midlothian	3,907	1.3%
Ellis	Waxahachie	4,509	17.1%

Table D-4, continued

County	Entity	1997 WateUse in Acre-Feet	1997 Unaccounted Water in Percent
Ellis	Buena Vista-Bethel WSC	263	30.9%
Ellis	Mountain Peak WSC	696	30.3%
Ellis	Nash-Forreston WSC	137	19.9%
Ellis	Rockett SUD	3,114	22.1%
Ellis	South Ellis WSC	110	25.3%
Fannin	Bonham	1,922	37.3%
Fannin	Honey Grove	385	38.2%
Fannin	Savoy	102	4.7%
Fannin	Southwest Fannin WSC	375	27.1%
Fannin	White Shed WSC	194	13.5%
Grayson	Bells	133	28.6%
Grayson	Collinsville	207	25.5%
Grayson	Howe	262	8.0%
Grayson	Pottsboro	181	8.4%
Grayson	Southmayd	32	25.1%
Grayson	Tioga	131	40.4%
Grayson	Whitesboro	654	18.3%
Grayson	Northwest Grayson WCID #1	99	11.9%
Grayson	Gunter Rural WSC	370	15.2%
Grayson	Red River Authority	148	6.5%
Grayson	South Grayson WSC	192	1.2%
Grayson	Two Way WSC	269	15.8%
Henderson	Athens	2,193	11.4%
Henderson	Malakoff	325	22.2%
Henderson	Trinidad	218	25.2%
Henderson	Beachwood/North Trinidad WD	88	35.8%
Henderson	East Cedar Creek FWSD	1,111	28.0%
Henderson	Leagueville WSC	169	14.4%
Henderson	Westwood Beach	53	3.8%
Henderson	Cherokee Shores	241	19.7%
Henderson	West Cedar Creek MUD	1,241	13.6%
Jack	Bryson	74	9.0%
Jack	Jacksboro	568	22.0%
Kaufman	Crandall	404	12.1%
Kaufman	Mabank	971	29.6%
Kaufman	Terrell	3,810	16.1%
Kaufman	Gastonia-Scurry WSC	362	14.9%
Kaufman	Rose Hill WSC	199	5.3%

Table D-4, continued

County	Entity	1997 WateUse in Acre-Feet	1997 Unaccounted Water in Percent
Kaufman	Talty WSC	178	13.1%
Navarro	Corsicana	8,711	15.0%
Navarro	Kerens	178	10.4%
Navarro	Angus WSC	95	17.9%
Navarro	Navarro Mills WSC	215	18.0%
Parker	Aledo	159	12.3%
Parker	Willow Park	458	10.0%
Parker	Walnut Creek SUD	705	10.6%
Parker	Western Lake Estates	139	39.9%
Rockwall	Royse City	723	1.1%
Rockwall	Blackland WSC	317	2.7%
Tarrant	Arlington	56,322	10.1%
Tarrant	Azle	1,393	11.2%
Tarrant	Colleyville	4,283	0.7%
Tarrant	Euless	6,608	8.4%
Tarrant	Forest Hill	1,354	16.0%
Tarrant	Grapevine	7,485	0.3%
Tarrant	Hurst	6,085	0.2%
Tarrant	Kennedale	798	10.2%
Tarrant	North Richland Hills	11,022	5.9%
Tarrant	Richland Hills	1,217	3.1%
Tarrant	Saginaw	1,579	9.6%
Tarrant	Sansom Park	497	24.7%
Tarrant	White Settlement	1,990	13.0%
Tarrant	Tarrant County MUD #1	859	10.0%
Tarrant	Tarrant County FWSD #1	169	4.1%
Wise	Birdgeport	1,277	28.6%
Wise	Rhome	62	17.5%
Wise	West Wise Rural WSC	336	19.0%
Weighted Average		816,952	10.1%

Note: Data are from Texas Water Development Board files. Entities with less than 50 acre-feet of water use and entities for which TWDB did not have data are not included.

APPENDIX E

TECHNICAL REVIEW COMMITTEE REPORT CONCERNING POPULATION AND WATER USE PROJECTIONS

APPENDIX E
TECHNICAL REVIEW COMMITTEE REPORT CONCERNING
POPULATION AND WATER USE PROJECTIONS

The Region C Water Planning Group appointed a technical review committee to review the population and water demand projections. The technical review committee provided the following technical memorandum regarding their conclusions in projecting population and water needs for Region C.

APPENDIX F

TWDB TABLE 1 – POPULATION PROJECTIONS BY WATER USER GROUP, COUNTY, AND BASIN

APPENDIX F
TWDB TABLE 1 – POPULATION PROJECTIONS BY WATER USER GROUP, COUNTY, AND BASIN

The Texas Water Development Board (TWDB) has established particular formats for thirteen tables that the Regional Water Planning Groups are required to provide. The following table is known as TWDB Table 1 and it includes the approved population projections for the water user groups in Region C. The water user group number was developed by the TWDB for their use, and it consists of the regional number followed by the sequence number and then the county number. The county and basin number codes are listed below.

County Number Code

43	Collin
49	Cooke
57	Dallas
61	Denton
70	Ellis
74	Fannin
81	Freestone
91	Grayson
107	Henderson
119	Jack
126	Johnson
129	Kaufman
175	Navarro
184	Parker
199	Rockwall
220	Tarrant
249	Wise

Basin Numbers

2	Red River Basin
3	Sulphur River Basin
5	Sabine River Basin
6	Neches River Basin
8	Trinity River Basin
12	Brazos River Basin

TWDB Table 1
Adopted City Population Projections

A		B	C	D	E	F	H	I	J	K	L	M	N	O	P	Q
Water User Group	Partial	**County Name**	**Basin Name**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Allen		Collin	Trinity	30012000	C	12	8	43	8	29,819	44,000	80,000	106,300	117,000	121,000	125,136
Anna		Collin	Trinity	30029000	C	29	813	43	8	1,093	1168	1282	1381	1487	1552	1622
Blue Ridge		Collin	Trinity	30094000	C	94	829	43	8	583	617	652	677	713	753	789
Celina		Collin	Trinity	30154000	C	154	103	43	8	2,059	2,260	5,750	12,595	24,952	34,074	39,952
Dallas	P	Collin	Trinity	30227000	C	227	151	43	8	32,505	28,678	30,497	34,329	37,262	40,872	44,832
Fairview		Collin	Trinity	30291000	C	291	772	43	8	2,254	3,300	4,091	4,600	5,200	5,700	6,538
Farmersville		Collin	Trinity	30294000	C	294	199	43	8	3,404	3,758	4,382	5,050	5,820	6,707	7,729
Frisco	P	Collin	Trinity	30319000	C	319	221	43	8	13,334	32,500	61,700	100,000	153,000	214,000	272,000
Garland	P	Collin	Trinity	30334000	C	334	230	43	8	259	22	25	31	35	41	48
Lucas		Collin	Trinity	30547000	C	547	718	43	8	3,227	3,657	4,815	5,139	6,263	7,270	8,439
Mckinney		Collin	Trinity	30577000	C	577	379	43	8	32,597	50,000	100,000	145,000	190,000	234,000	277,200
Melissa		Collin	Trinity	30584000	C	584	914	43	8	823	952	1200	1300	1450	1500	1579
Murphy		Collin	Trinity	30619000	C	619	724	43	8	2,231	3,200	8,500	12,750	15,000	16,800	18,600
New Hope		Collin	Trinity	30631000	C	631	923	43	8	586	600	616	636	660	688	720
Parker		Collin	Trinity	30679000	C	679	733	43	8	1,497	2,500	6,000	10,900	18,000	26,100	34,000
Plano	P	Collin	Trinity	30704000	C	704	472	43	8	181,055	234,000	276,000	276,000	276,000	276,000	276,000
Princeton		Collin	Trinity	30724000	C	724	487	43	8	3,119	3,000	4,400	5,500	6,250	6,950	7,500
Prosper		Collin	Trinity	30726000	C	726	799	43	8	1,332	2,400	7,300	12,500	18,200	24,000	30,000
Richardson	P	Collin	Trinity	30747000	C	747	498	43	8	13,046	11,828	12,620	14,007	15,358	16,618	17,981
Royse City	P	Collin	Sabine	30779000	C	779	522	43	5	242	333	426	550	662	766	886
Sachse	P	Collin	Trinity	30784000	C	784	742	43	8	315	287	472	565	635	738	839
Wylie	P	Collin	Trinity	30991000	C	991	669	43	8	11,004	12373	18341	26936	39929	54923	69120
County-Other		Collin	Sabine	30996043	C	996	757	43	5	2,441	103	432	9387	13564	16161	16089
County-Other		Collin	Trinity	30996043	C	996	757	43	8	34,270	1464	5954	137176	202561	243787	243796
Gainesville		Cooke	Trinity	30327000	C	327	225	49	8	15,073	15,644	16,878	18,358	19,674	21,031	22,388
Lindsay		Cooke	Trinity	30525000	C	525	899	49	8	753	698	747	856	976	1,043	1,087
Muenster		Cooke	Trinity	30615000	C	615	418	49	8	1,490	1,601	1,740	1,890	1,985	2,080	2,175
Valley View		Cooke	Trinity	30923000	C	923	981	49	8	754	652	698	771	851	940	1,039
County-Other		Cooke	Red	30996049	C	996	757	49	2	1,966	2032	2201	2218	2174	2127	2081
County-Other		Cooke	Trinity	30996049	C	996	757	49	8	13,160	13582	14703	14723	14340	14029	13730
Addison		Dallas	Trinity	30003000	C	3	673	57	8	11,287	12,802	15,292	17,038	18,803	20,762	22,156
Balch Springs		Dallas	Trinity	30049000	C	49	33	57	8	18,370	18,900	21,649	23,676	24,704	24,704	24,704
Carrollton	P	Dallas	Trinity	30147000	C	147	98	57	8	45,275	55,947	60,662	64,252	65,840	65,096	64,343
Cedar Hill	P	Dallas	Trinity	30151000	C	151	102	57	8	24,728	30,600	40,602	51,706	66,148	83,625	87,318
Cockrell Hill		Dallas	Trinity	30182000	C	182	121	57	8	4,034	4,207	4,260	4,387	4,442	4,442	4,442
Combine	P	Dallas	Trinity	30193000	C	193	766	57	8	567	504	590	682	792	845	937
Coppell		Dallas	Trinity	30201000	C	201	133	57	8	25,507	34,847	40,441	41,463	42,512	43,587	44,689
Dallas	P	Dallas	Trinity	30227000	C	227	151	57	8	1,010,218	1,028,671	1,061,990	1,094,223	1,127,506	1,169,749	1,211,933
De Soto		Dallas	Trinity	30234000	C	234	161	57	8	35,173	37,550	47,649	57,243	65,849	73,881	82,923
Duncanville		Dallas	Trinity	30256000	C	256	171	57	8	36,429	36,300	40,044	42,811	43,985	43,985	43,985
Farmers Branch		Dallas	Trinity	30293000	C	293	198	57	8	25,363	27,195	28,479	30,835	32,853	36,074	39,629
Garland	P	Dallas	Trinity	30334000	C	334	230	57	8	190,995	205,456	223,250	234,938	234,930	234,918	234,904
Glenn Heights	P	Dallas	Trinity	30344000	C	344	697	57	8	4,495	5,640	6,602	7,519	8,391	9,199	10,089
Grand Prairie	P	Dallas	Trinity	30353000	C	353	245	57	8	89,089	90,600	97,782	99,333	102,879	105,084	106,586

A		B	C	D	E	F	H	I	J	K	L	M	N	O	P	Q
Water User Group	Partial	**County Name**	**Basin Name**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Grapevine	P	Dallas	Trinity	30360000	C	360	249	57	8	6	99	110	122	133	146	156
Highland Park		Dallas	Trinity	30402000	C	402	276	57	8	9,273	9,476	9,912	10,368	10,844	11,343	11,858
Hutchins		Dallas	Trinity	30429000	C	429	294	57	8	3,166	2,753	3,262	3,958	4,903	6,113	7,603
Irving		Dallas	Trinity	30437000	C	437	298	57	8	172,856	186,496	197,904	215,304	239,488	264,586	289,423
Lancaster		Dallas	Trinity	30509000	C	509	345	57	8	25,556	24,487	28,031	30,606	31,993	31,993	31,993
Lewisville	P	Dallas	Trinity	30519000	C	519	355	57	8	922	768	1,021	1,352	1,611	1,869	2,168
Mesquite		Dallas	Trinity	30592000	C	592	401	57	8	112,686	117,742	138,042	159,638	180,723	200,956	221,454
Ovilla	P	Dallas	Trinity	30663000	C	663	729	57	8	332	319	366	424	483	532	586
Richardson	P	Dallas	Trinity	30747000	C	747	498	57	8	73,306	76,772	84,580	90,993	94,442	97,082	99,739
Rowlett	P	Dallas	Trinity	30777000	C	777	521	57	8	29,936	35,671	46,344	57,607	66,599	71,153	77,924
Sachse	P	Dallas	Trinity	30784000	C	784	742	57	8	6,734	9,082	15,948	18,735	21,435	23,800	25,423
Seagoville		Dallas	Trinity	30812000	C	812	547	57	8	9,970	10,559	16,651	19,156	21,315	23,651	25,474
Sunnyvale		Dallas	Trinity	30871000	C	871	749	57	8	2,616	3,000	5,800	7,700	8,100	8,350	8,595
University Park		Dallas	Trinity	30920000	C	920	615	57	8	22,446	24,090	24,692	25,310	25,942	26,591	27,319
Wilmer		Dallas	Trinity	30975000	C	975	657	57	8	2,579	2,669	2,844	3,031	3,159	3,159	3,159
County-Other		Dallas	Trinity	30996057	C	996	757	57	8	6,012	11,656	62,029	142,383	233,900	358,656	448,483
Argyle		Denton	Trinity	30036000	C	36	677	61	8	2,048	2,226	7,081	11,935	14,983	16,550	18,282
Aubrey		Denton	Trinity	30043000	C	43	758	61	8	1,332	1,472	1,955	2,562	3,358	4,321	7,739
Bartonville		Denton	Trinity	30058000	C	58	820	61	8	1,174	1,400	4,975	7,224	9,337	11,271	12,085
Carrollton	P	Denton	Trinity	30147000	C	147	98	61	8	51,733	48,645	56,008	61,351	64,222	64,966	65,719
Copper Canyon		Denton	Trinity	30202000	C	202	849	61	8	1,343	1,507	2,841	4,124	5,331	6,435	6,900
Corinth		Denton	Trinity	30204000	C	204	691	61	8	5,696	11,500	19,620	25,000	27,000	29,000	30,632
Crossroads		Denton	Trinity	30996061	C	996	757	61	8		524	1,500	3,899	6,351	10,594	18,902
Dallas	P	Denton	Trinity	30227000	C	227	151	61	8	19,435	18,217	19,748	21,854	25,203	28,484	32,192
Denton		Denton	Trinity	30240000	C	240	159	61	8	74,645	79,500	110,000	162,800	207,100	248,700	298,700
Double Oak		Denton	Trinity	30251000	C	251	768	61	8	2,048	2,327	3,058	3,643	4,200	4,350	4,500
Flower Mound		Denton	Trinity	30301000	C	301	204	61	8	34,015	48,000	71,052	95,488	115,263	133,767	147,762
Frisco	P	Denton	Trinity	30319000	C	319	221	61	8	686	603	1,406	1,629	1,962	2,114	2,271
Hebron		Denton	Trinity	30390000	C	390	776	61	8	1,425	1,590	2,156	2,798	3,484	4,058	4,727
Hickory Creek		Denton	Trinity	30399000	C	399	704	61	8	2,214	2,354	3,542	5,208	6,474	7,612	8,409
Highland Village		Denton	Trinity	30403000	C	403	706	61	8	10,788	13,400	18,500	19,000	19,500	20,000	20,500
Justin		Denton	Trinity	30456000	C	456	784	61	8	1,591	1,860	2,710	4,480	7,228	11,878	14,112
Krugerville		Denton	Trinity	30481000	C	481	892	61	8	970	1,105	1,326	1,521	1,767	2,123	2,560
Krum		Denton	Trinity	30482000	C	482	785	61	8	2,075	2,444	3,271	4,212	5,222	6,071	7,058
Lake Dallas		Denton	Trinity	30498000	C	498	337	61	8	4,611	6,272	8,100	9,500	10,100	10,789	11,544
Lewisville	P	Denton	Trinity	30519000	C	519	355	61	8	60,361	77,063	110,179	138,648	155,534	163,312	171,462
Lincoln Park		Denton	Trinity	30996061	C	996	757	61	8		500	704	1,042	1,401	2,087	2,772
Little Elm		Denton	Trinity	30527000	C	527	790	61	8	1,493	2,342	3,815	6,214	9,198	11,212	12,385
Northlake		Denton	Trinity	30996061	C	996	757	61	8		600	5,000	10,000	20,000	30,000	40,000
Oak Point		Denton	Trinity	30648000	C	648	930	61	8	949	1,251	2,442	5,273	8,280	10,744	11,867
Pilot Point		Denton	Trinity	30695000	C	695	465	61	8	3,010	3,652	4,770	5,910	7,573	8,738	10,082
Plano	P	Denton	Trinity	30704000	C	704	472	61	8	936	57	78	100	130	152	175
Ponder		Denton	Trinity	30996061	C	996	757	61	8		580	1,718	3,710	5,826	7,559	8,350
Roanoke		Denton	Trinity	30758000	C	758	800	61	8	2,295	2,608	3,486	4,488	5,563	6,467	7,518
Sanger		Denton	Trinity	30801000	C	801	535	61	8	4,228	7,611	12,623	15,051	17,947	21,400	23,998
Shady Shores		Denton	Trinity	30820000	C	820	803	61	8	1,337	1,756	2,526	3,327	3,921	4,539	4,770
Southlake	P	Denton	Trinity	30846000	C	846	570	61	8	899	625	1,109	1,341	1,740	2,215	2,865

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Water User Group	Partial	**County Name**	**Basin Name**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
The Colony		Denton	Trinity	30891000	C	891	752	61	8	25,453	27,626	42,800	56,000	60,000	64,500	65,145
Trophy Club		Denton	Trinity	30911000	C	911	806	61	8	4,762	6,524	9,655	13,166	16,784	19,807	23,374
County-Other		Denton	Trinity	30996061	C	996	757	61	8	26,014	45,586	51,596	89,963	181,749	224,185	250,642
Cedar Hill	P	Ellis	Trinity	30151000	C	151	102	70	8	813	68	102	137	181	204	230
Ennis		Ellis	Trinity	30284000	C	284	192	70	8	14,873	15,749	17,582	19,772	22,041	22,949	23,895
Ferris		Ellis	Trinity	30296000	C	296	201	70	8	2,328	2,200	2,635	3,152	3,682	3,835	3,994
Glenn Heights	P	Ellis	Trinity	30344000	C	344	697	70	8	1,067	964	1,194	1,387	1,612	1,672	1,734
Grand Prairie	P	Ellis	Trinity	30353000	C	353	245	70	8	4	65	122	220	220	220	220
Italy		Ellis	Trinity	30438000	C	438	299	70	8	1,978	2,239	2,719	3,235	3,745	4,008	4,289
Mansfield	P	Ellis	Trinity	30559000	C	559	384	70	8	163	430	716	1,064	1,457	1,737	2,071
Maypearl		Ellis	Trinity	30573000	C	573	911	70	8	872	962	980	1,010	1,012	1,013	1,063
Midlothian		Ellis	Trinity	30596000	C	596	405	70	8	5,819	9,185	11,938	14,789	17,552	19,114	20,815
Milford		Ellis	Trinity	30598000	C	598	916	70	8	833	919	976	1,017	1,040	1,042	1,051
Oak Leaf		Ellis	Trinity	30647000	C	647	929	70	8	1,158	1,224	1,321	1,543	1,749	1,920	2,089
Ovilla	P	Ellis	Trinity	30663000	C	663	729	70	8	2,207	2,845	3,329	3,840	4,334	4,477	4,626
Palmer		Ellis	Trinity	30671000	C	671	731	70	8	1,819	1,816	2,339	2,898	3,448	3,737	4,047
Pecan Hill		Ellis	Trinity	30686000	C	686	935	70	8	637	714	733	738	757	789	822
Red Oak		Ellis	Trinity	30739000	C	739	737	70	8	3,912	5,320	6,597	7,929	9,226	9,945	10,725
Waxahachie		Ellis	Trinity	30943000	C	943	633	70	8	20,147	22,454	26,692	31,330	35,953	40,477	45,041
County-Other		Ellis	Trinity	30996070	C	996	757	70	8	35,467	35,916	43,879	49,993	54,264	58,264	58,652
Bonham		Fannin	Red	30098000	C	98	65	74	2	6,927	7,186	7,649	8,142	8,667	9,226	9,820
Honey Grove		Fannin	Red	30415000	C	415	283	74	2	91	95	101	107	115	121	130
Honey Grove		Fannin	Sulphur	30415000	C	415	283	74	3	1,710	1791	1906	2030	2159	2300	2447
Leonard		Fannin	Sulphur	30517000	C	517	352	74	3	189	206	220	233	249	264	281
Leonard		Fannin	Trinity	30517000	C	517	352	74	8	1,688	1840	1958	2085	2219	2362	2515
Savoy		Fannin	Red	30807000	C	807	957	74	2	978	961	963	966	969	971	974
Trenton		Fannin	Trinity	30908000	C	908	978	74	8	693	725	772	822	875	931	991
County-Other		Fannin	Red	30996074	C	996	757	74	2	10,984	12386	14401	16256	17426	17504	17131
County-Other		Fannin	Sulphur	30996074	C	996	757	74	3	3,356	3794	4407	4942	5287	5316	5213
County-Other		Fannin	Trinity	30996074	C	996	757	74	8	819	1016	1224	1417	1535	1504	1499
Fairfield		Freestone	Trinity	30289000	C	289	196	81	8	3,315	3,740	3,995	4,420	4,811	5,020	5,238
Teague		Freestone	Trinity	30884000	C	884	596	81	8	1,103	1194	1222	1232	1239	1249	1259
Teague		Freestone	Brazos	30884000	C	884	596	81	12	2,575	2786	2850	2875	2892	2916	2940
Wortham		Freestone	Trinity	30990000	C	990	668	81	8	1,030	1,180	1,262	1,397	1,521	1,587	1,656
County-Other		Freestone	Trinity	30996081	C	996	757	81	8	7,954	7572	7739	7662	7466	7540	7523
County-Other		Freestone	Brazos	30996081	C	996	757	81	12	1,780	1695	1732	1714	1671	1688	1684
Bells		Grayson	Red	30071000	C	71	824	91	2	1,009	971	1,023	1,185	1,309	1,446	1,597
Collinsville		Grayson	Trinity	30187000	C	187	765	91	8	1,184	1,297	1,368	1,451	1,527	1,588	1,652
Denison		Grayson	Red	30239000	C	239	158	91	2	21,940	22,950	23,728	24,533	25,365	26,225	27,114
Gunter		Grayson	Trinity	30370000	C	370	876	91	8	958	959	1,004	1,235	1,325	1,436	1,546
Howe		Grayson	Red	30419000	C	419	286	91	2	1,827	1888	2136	2212	2331	2390	2450
Howe		Grayson	Trinity	30419000	C	419	286	91	8	458	475	537	556	585	600	616
Luella		Grayson	Red	30548000	C	548	905	91	2	663	725	739	754	770	785	801
Pottsboro		Grayson	Red	30719000	C	719	797	91	2	1,461	1,663	2,028	2,472	2,730	3,016	3,331
Sherman		Grayson	Red	30827000	C	827	556	91	2	33,225	34,974	37,362	38,685	40,771	42,856	45,048
Southmayd		Grayson	Red	30847000	C	847	961	91	2	791	893	964	1,024	1,087	1,178	1,275
Tioga		Grayson	Trinity	30902000	C	902	974	91	8	661	711	747	785	825	867	912

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Tom Bean		Grayson	Red	30904000	C	904	976	91	2	912	973	1,007	1,079	1,149	1,201	1,279
Van Alstyne		Grayson	Trinity	30925000	C	925	619	91	8	2,341	2,486	3,341	4,490	5,474	6,672	8,134
Whitesboro		Grayson	Red	30967000	C	967	650	91	2	3,218	3334	3504	3684	3873	4070	4278
Whitesboro		Grayson	Trinity	30967000	C	967	650	91	8	168	173	182	191	201	212	222
Whitewright		Grayson	Red	30968000	C	968	652	91	2	1,745	1,852	1,913	1,960	2,009	2,043	2,078
County-Other		Grayson	Red	30996091	C	996	757	91	2	23,093	24442	23491	23385	21839	20069	16172
County-Other		Grayson	Trinity	30996091	C	996	757	91	8	4,957	5353	5152	5021	4695	4327	3495
Athens		Henderson	Trinity	30041000	C	41	28	107	8	11,584	12,800	13,555	14,354	15,200	16,097	17,406
Eustace		Henderson	Trinity	30286000	C	286	864	107	8	807	904	980	1,041	1,085	1,110	1,112
Gun Barrel City		Henderson	Trinity	30369000	C	369	699	107	8	4,206	4,710	5,417	6,048	6,417	6,662	6,915
Mabank	P	Henderson	Trinity	30554000	C	554	375	107	8	345	358	448	535	611	616	621
Malakoff		Henderson	Trinity	30557000	C	557	383	107	8	2,217	2,378	2,615	2,824	2,924	2,974	3,071
Payne Springs		Henderson	Trinity	30682000	C	682	934	107	8	702	810	869	899	949	1,015	1,081
Seven Points		Henderson	Trinity	30818000	C	818	959	107	8	812	940	966	982	1020	1075	1128
Tool		Henderson	Trinity	30906000	C	906	753	107	8	1,958	2,180	2,435	2,661	2,780	2,849	2,920
Trinidad		Henderson	Trinity	30909000	C	909	609	107	8	1,140	1,228	1,315	1,392	1,422	1,423	1,428
County-Other		Henderson	Trinity	30996107	C	996	757	107	8	21,990	20,254	22,661	24,779	25,296	24,869	24,794
Bryson		Jack	Brazos	30124000	C	124	834	119	12	559	593	597	601	604	608	612
Jacksboro		Jack	Trinity	30441000	C	441	302	119	8	3,493	3,640	3,882	4,146	4,450	4,782	5,139
County-Other		Jack	Trinity	30996119	C	996	757	119	8	1,883	2022	2047	2132	2135	2078	1979
County-Other		Jack	Brazos	30996119	C	996	757	119	12	1,500	1564	1613	1712	1745	1707	1623
Combine	P	Kaufman	Trinity	30193000	C	193	766	129	8	1,177	1,575	1,856	2,144	2,391	2,584	2,793
Crandall		Kaufman	Trinity	30210000	C	210	767	129	8	2,212	2,490	3,387	4,295	5,108	5,611	6,164
Dallas	P	Kaufman	Trinity	30227000	C	227	151	129	8	10	8	8	8	8	8	8
Forney		Kaufman	Trinity	30304000	C	304	207	129	8	4,890	5,742	10,000	15,000	21,000	28,000	35,000
Kaufman		Kaufman	Trinity	30459000	C	459	313	129	8	6,709	7,544	9,656	11,771	13,661	15,090	16,560
Kemp		Kaufman	Trinity	30463000	C	463	711	129	8	1,410	1,909	2,300	2,758	3,156	3,410	3,684
Mabank	P	Kaufman	Trinity	30554000	C	554	375	129	8	1,622	2,423	2,992	3,575	4,079	4,401	4,748
Oak Grove		Kaufman	Trinity	30646000	C	646	928	129	8	708	797	876	947	1,004	1,045	1,067
Terrell		Kaufman	Trinity	30887000	C	887	599	129	8	13,705	14,213	17,432	20,582	23,342	24,795	26,338
County-Other		Kaufman	Sabine	30996129	C	996	757	129	5	1,141	1240	1509	1842	2167	2421	2571
County-Other		Kaufman	Trinity	30996129	C	996	757	129	8	28,062	30427	37090	45369	53443	59743	63484
Blooming Grove		Navarro	Trinity	30090000	C	90	828	175	8	863	889	911	935	958	982	1,007
Corsicana		Navarro	Trinity	30207000	C	207	137	175	8	24,067	25,000	29,239	31,665	34,291	37,135	40,215
Dawson		Navarro	Trinity	30230000	C	230	855	175	8	773	761	735	696	669	670	674
Frost		Navarro	Trinity	30321000	C	321	868	175	8	605	618	634	650	666	683	700
Kerens		Navarro	Trinity	30466000	C	466	712	175	8	1,704	1,700	1,700	1,700	1,700	1,700	1,700
Rice		Navarro	Trinity	30746000	C	746	947	175	8	618	673	695	743	781	819	871
County-Other		Navarro	Trinity	30996175	C	996	757	175	8	14,245	15,550	15,293	16,642	17,950	17,211	15,833
Aledo		Parker	Trinity	30009000	C	9	674	184	8	1,359	1,633	2,282	3,187	4,453	5,173	5,173
Annetta		Parker	Trinity	30030000	C	30	814	184	8	835	945	1,329	1,870	2,630	3,699	5,203
Azle	P	Parker	Trinity	30046000	C	46	31	184	8	1,392	1,844	2,179	2,398	2,642	2,911	3,207
Briar	P	Parker	Trinity	30110000	C	110	682	184	8	761	673	797	928	1,073	1,192	1,324
Hudson Oaks		Parker	Trinity	30422000	C	422	883	184	8	1,129	1,440	2,915	5,903	10,394	10,394	10,394
Mineral Wells		Parker	Brazos	30600000	C	600	407	184	12	574	522	600	683	780	859	946
Reno		Parker	Trinity	30744000	C	744	739	184	8	2,663	2,884	3,287	3,771	4,306	4,785	5,318
Springtown		Parker	Trinity	30853000	C	853	574	184	8	1,937	2,432	3,149	3,873	4,638	5,262	5,970

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Weatherford		Parker	Trinity	30944000	C	944	634	184	8	16,480	19083	25896	35141	47688	64713	87816
Weatherford		Parker	Brazos	30944000	C	944	634	184	12	870	1006	1366	1854	2515	3413	4632
Willow Park		Parker	Trinity	30973000	C	973	756	184	8	2,703	3,252	4,544	6,347	8,868	12,388	17,307
County-Other		Parker	Trinity	30996184	C	996	757	184	8	28,141	28922	32853	33926	31903	26800	15549
County-Other		Parker	Brazos	30996184	C	996	757	184	12	15,053	15800	17898	18406	17204	14434	8377
Dallas	P	Rockwall	Trinity	30227000	C	227	151	199	8	50	44	51	65	86	106	131
Heath		Rockwall	Trinity	30388000	C	388	702	199	8	2,966	3,892	5,486	7,682	10,425	13,643	17,856
Rockwall		Rockwall	Trinity	30766000	C	766	513	199	8	13,727	18,297	33,700	49,000	63,300	80,000	96,076
Rowlett	P	Rockwall	Trinity	30777000	C	777	521	199	8	5,107	6,329	12,056	17,393	24,001	31,847	42,258
Royse City	P	Rockwall	Sabine	30779000	C	779	522	199	5	2,624	3,600	7,800	11,500	23,600	27,800	31,963
Wylie	P	Rockwall	Trinity	30991000	C	991	669	199	8	83	60	59	64	71	77	84
County-Other		Rockwall	Sabine	30996199	C	996	757	199	5	1,863	1715	429	466	99	1363	2903
County-Other		Rockwall	Trinity	30996199	C	996	757	199	8	7,867	7238	1811	1966	418	5752	12258
Arlington		Tarrant	Trinity	30037000	C	37	25	220	8	295,553	318,653	336,400	366,760	384,917	399,173	413,986
Azle	P	Tarrant	Trinity	30046000	C	46	31	220	8	9,225	9,946	11,637	13,473	14,704	16,483	18,477
Bedford		Tarrant	Trinity	30067000	C	67	44	220	8	48,445	49,900	55,200	56,200	56,200	56,200	56,200
Benbrook		Tarrant	Trinity	30075000	C	75	51	220	8	22,320	23,964	26,522	29,354	30,807	31,947	33,130
Blue Mound		Tarrant	Trinity	30093000	C	93	62	220	8	2,420	2,488	2,582	2,909	3,040	3,152	3,264
Briar	P	Tarrant	Trinity	30110000	C	110	682	220	8	2,491	3,559	4,509	5,445	5,713	6,139	6,597
Burleson		Tarrant	Trinity	30131000	C	131	87	220	8	3,093	2,415	2,638	2,957	3,105	3,232	3,364
Colleyville		Tarrant	Trinity	30186000	C	186	125	220	8	17,921	20,500	30,730	39,665	41,624	43,169	44,771
Crowley		Tarrant	Trinity	30218000	C	218	145	220	8	7,954	8,000	8,940	10,098	11,037	12,945	15,182
Dalworthington Gard.		Tarrant	Trinity	30228000	C	228	692	220	8	2,109	2,265	3,260	3,749	4,067	4,533	5,052
Edgecliff		Tarrant	Trinity	30267000	C	267	180	220	8	2,943	3,000	3,000	3,000	3,000	3,000	3,000
Euless		Tarrant	Trinity	30285000	C	285	193	220	8	44,632	47,000	51,773	58,848	58,848	58,848	58,848
Everman		Tarrant	Trinity	30287000	C	287	194	220	8	6,379	6,500	6,500	6,500	6,500	6,500	6,500
Forest Hill		Tarrant	Trinity	30303000	C	303	206	220	8	11,499	12,350	12,717	13,580	13,621	13,662	13,811
Fort Worth		Tarrant	Trinity	30311000	C	311	213	220	8	478,480	496,622	532,717	580,375	596,112	632,480	671,067
Grand Prairie	P	Tarrant	Trinity	30353000	C	353	245	220	8	20,103	26,212	37,990	50,934	53,453	55,432	57,485
Grapevine	P	Tarrant	Trinity	30360000	C	360	249	220	8	36,738	39,434	48,611	54,530	57,223	59,340	61,535
Haltom City		Tarrant	Trinity	30375000	C	375	261	220	8	35,207	38,845	41,704	43,272	43,983	44,197	44,412
Haslet		Tarrant	Trinity	30384000	C	384	879	220	8	977	1,260	1,443	1,899	2,327	2,587	2,808
Hurst		Tarrant	Trinity	30428000	C	428	293	220	8	38,461	36,985	38,799	40,939	40,258	40,691	41,129
Keller		Tarrant	Trinity	30461000	C	461	315	220	8	19,323	24,761	31,592	38,146	41,677	43,219	44,818
Kennedale		Tarrant	Trinity	30465000	C	465	318	220	8	4,939	6,428	10,087	11,974	13,710	16,881	19,725
Lake Worth Village		Tarrant	Trinity	30501000	C	501	341	220	8	5,004	4,896	5,126	5,517	5,556	5,762	5,976
Mansfield	P	Tarrant	Trinity	30559000	C	559	384	220	8	19,817	25,181	32,396	43,903	52,745	69,857	86,968
North Richland Hills		Tarrant	Trinity	30642000	C	642	435	220	8	53,501	55,884	67,363	81,200	90,408	100,661	112,232
Pantego		Tarrant	Trinity	30677000	C	677	454	220	8	2,640	2,471	2,534	2,668	2,681	2,694	2,751
Pelican Bay		Tarrant	Trinity	30688000	C	688	795	220	8	1,418	1,562	1,912	2,278	2,550	2,920	3,344
Richland Hills		Tarrant	Trinity	30748000	C	748	499	220	8	8,601	8,886	10,379	12,109	13,618	16,497	19,985
River Oaks		Tarrant	Trinity	30756000	C	756	505	220	8	7,131	6,838	6,838	6,838	6,838	6,838	6,838
Saginaw		Tarrant	Trinity	30785000	C	785	527	220	8	9,891	12,172	13,922	15,878	17,084	18,915	20,942
Sansom Park Village		Tarrant	Trinity	30802000	C	802	539	220	8	4,114	4,114	4,181	4,192	4,192	4,192	4,192
Southlake	P	Tarrant	Trinity	30846000	C	846	570	220	8	11,147	21,481	26,305	32,212	39,445	48,304	59,151
Watauga		Tarrant	Trinity	30942000	C	942	632	220	8	22,363	22,233	24,274	26,157	27,969	29,906	29,906
Westworth Village		Tarrant	Trinity	30959000	C	959	644	220	8	2,345	2,518	2,600	2,600	2,600	2,600	2,600

A		B	C	D	E	F	H	I	J	K	L	M	N	O	P	Q
Water User Group	Partial	**County Name**	**Basin Name**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
White Settlement		Tarrant	Trinity	30964000	C	964	651	220	8	15,412	15,950	15,950	15,950	15,950	15,950	15,950
County-Other		Tarrant	Trinity	30996220	C	996	757	220	8	31,861	50,486	81,087	112,785	147,813	232,287	209,614
Alvord		Wise	Trinity	30019000	C	19	810	249	8	1,007	1,089	1,131	1,154	1,175	1,217	1,292
Aurora		Wise	Trinity	30044000	C	44	816	249	8	790	885	931	943	973	1,011	1,049
Boyd		Wise	Trinity	30103000	C	103	760	249	8	1,183	1,296	1,749	1,968	2,188	2,236	2,285
Briar	P	Wise	Trinity	30110000	C	110	682	249	8	1,062	1,029	1,176	1,309	1,440	1,462	1,466
Bridgeport		Wise	Trinity	30113000	C	113	76	249	8	3,966	4,173	4,778	5,383	5,989	6,594	7,200
Chico		Wise	Trinity	30163000	C	163	842	249	8	921	995	1027	1040	1053	1065	1074
Decatur		Wise	Trinity	30235000	C	235	153	249	8	4,724	4,982	5,761	6,453	7,139	7,278	7,420
Newark		Wise	Trinity	30635000	C	635	920	249	8	807	970	1,058	1,133	1,213	1,346	1,509
Rhome		Wise	Trinity	30745000	C	745	946	249	8	729	795	858	908	983	1077	1172
County-Other		Wise	Trinity	30996249	C	996	757	249	8	25,830	28,586	36,205	44,072	51,488	57,714	60,535
Total										4,609,060	5,012,860	5,882,173	6,931,543	7,850,797	8,778,041	9,481,157

NOTE: Column titles in bold print are columns required by the Texas Water Development Board. The non-bolded columns are provided as additional information.

APPENDIX G

TWDB TABLE 2 – WATER DEMAND PROJECTIONS BY WATER USER GROUP, COUNTY, AND BASIN

APPENDIX G
TWDB TABLE 2 – WATER DEMAND PROJECTIONS BY WATER USER GROUP, COUNTY, AND BASIN

The following table is the second in a series of tables required by the Texas Water Development Board (TWDB). This table includes the projected water demands for each water user group in Region C. The water user group number was developed by the TWDB for their use, and it consists of the regional number followed by the sequence number and then the county number. The county and basin number codes are listed below.

County Number Code

43	Collin
49	Cooke
57	Dallas
61	Denton
70	Ellis
74	Fannin
81	Freestone
91	Grayson
107	Henderson
119	Jack
126	Johnson
129	Kaufman
175	Navarro
184	Parker
199	Rockwall
220	Tarrant
249	Wise

Basin Numbers

2	Red River Basin
3	Sulphur River Basin
5	Sabine River Basin
6	Neches River Basin
8	Trinity River Basin
12	Brazos River Basin

TWDB Table 2
Adopted De mand Projections

A		B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Water User Group	Partial	**County Name**	**Basin Name**	**Category**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Allen		Collin	Trinity	Mun	30012000	C	12	8	43	8	5,857	10,350	23,299	30,125	33,026	33,478	33,921
Anna		Collin	Trinity	Mun	30029000	C	29	813	43	8	139	157	167	173	180	181	182
Blue Ridge		Collin	Trinity	Mun	30094000	C	94	829	43	8	79	83	91	99	104	105	106
Celina		Collin	Trinity	Mun	30154000	C	154	103	43	8	253	314	963	2,469	5,590	7,443	8,503
Dallas	P	Collin	Trinity	Mun	30227000	C	227	151	43	8	8,367	8,352	9,394	10,575	11,353	12,270	13,258
Fairview		Collin	Trinity	Mun	30291000	C	291	772	43	8	670	776	1,191	1,304	1,468	1,603	1,831
Farmersville		Collin	Trinity	Mun	30294000	C	294	199	43	8	329	568	663	849	978	1,089	1,212
Frisco	P	Collin	Trinity	Mun	30319000	C	319	221	43	8	3,470	9,829	20,388	32,596	49,187	67,838	85,005
Garland	P	Collin	Trinity	Mun	30334000	C	334	230	43	8	43	4	4	5	6	6	8
Lucas		Collin	Trinity	Mun	30547000	C	547	718	43	8	394	717	944	1,007	1,228	1,384	1,560
Mckinney		Collin	Trinity	Mun	30577000	C	577	379	43	8	6,697	15,402	33,044	47,264	61,081	74,178	86,631
Melissa		Collin	Trinity	Mun	30584000	C	584	914	43	8	64	107	168	182	203	202	203
Murphy		Collin	Trinity	Mun	30619000	C	619	724	43	8	381	753	1,885	2,685	3,108	3,443	3,791
New Hope		Collin	Trinity	Mun	30631000	C	631	923	43	8	75	95	92	90	90	91	94
Parker		Collin	Trinity	Mun	30679000	C	679	733	43	8	302	770	1,983	3,516	5,767	8,332	10,816
Plano	P	Collin	Trinity	Mun	30704000	C	704	472	43	8	45,945	67,887	84,091	81,927	80,382	79,763	79,763
Princeton		Collin	Trinity	Mun	30724000	C	724	487	43	8	343	433	665	924	1,050	1,129	1,176
Prosper		Collin	Trinity	Mun	30726000	C	726	799	43	8	210	417	1,378	2,408	3,445	4,489	5,578
Richardson	P	Collin	Trinity	Mun	30747000	C	747	498	43	8	3,571	3,643	3,887	4,174	4,507	4,821	5,196
Royse City	P	Collin	Sabine	Mun	30779000	C	779	522	43	5	40	61	91	123	146	168	194
Sachse	P	Collin	Trinity	Mun	30784000	C	784	742	43	8	44	54	97	112	125	144	164
Wylie	P	Collin	Trinity	Mun	30991000	C	991	669	43	8	1,658	2,273	3,164	4,435	6,440	8,797	10,993
County-Other		Collin	Sabine	Mun	30996043	C	996	757	43	5	393	17	66	1,309	1,783	2,219	2,094
County-Other		Collin	Trinity	Mun	30996043	C	996	757	43	8	5,514	308	1,294	22,936	29,549	35,726	33,351
Manufacturing		Collin	Sabine	Mfg	31001043	C	1001	1001	43	5	0	0	0	0	0	0	0
Manufacturing		Collin	Trinity	Mfg	31001043	C	1001	1001	43	8	1,312	2,368	2,677	2,963	3,245	3,664	4,110
Steam Electric Power		Collin	Sabine	Pwr	31002043	C	1002	1002	43	5	0	0	0	0	0	0	0
Steam Electric Power		Collin	Trinity	Pwr	31002043	C	1002	1002	43	8	1,775	2,000	7,000	7,000	7,000	10,000	10,000
Mining		Collin	Sabine	Min	31003043	C	1003	1003	43	5	0	0	0	0	0	0	0
Mining		Collin	Trinity	Min	31003043	C	1003	1003	43	8	341	182	183	175	171	163	172
Irrigation		Collin	Sabine	Irr	31004043	C	1004	1004	43	5	0	0	0	0	0	0	0
Irrigation		Collin	Trinity	Irr	31004043	C	1004	1004	43	8	93	0	0	0	0	0	0
Livestock		Collin	Sabine	Stk	31005043	C	1005	1005	43	5	30	38	38	38	38	38	38
Livestock		Collin	Trinity	Stk	31005043	C	1005	1005	43	8	841	1,057	1,057	1,057	1,057	1,057	1,057
Gainesville		Cooke	Trinity	Mun	30327000	C	327	225	49	8	2,836	3,067	3,214	3,393	3,526	3,769	4,012
Lindsay		Cooke	Trinity	Mun	30525000	C	525	899	49	8	100	88	95	108	124	132	138
Muenster		Cooke	Trinity	Mun	30615000	C	615	418	49	8	258	300	308	317	325	333	346
Valley View		Cooke	Trinity	Mun	30923000	C	923	981	49	8	76	73	82	95	110	126	145
County-Other		Cooke	Red	Mun	30996049	C	996	757	49	2	271	246	248	236	224	219	214
County-Other		Cooke	Trinity	Mun	30996049	C	996	757	49	8	1,814	1,787	1,810	1,718	1,626	1,591	1,557
Manufacturing		Cooke	Red	Mfg	31001049	C	1001	1001	49	2	0	0	0	0	0	0	0
Manufacturing		Cooke	Trinity	Mfg	31001049	C	1001	1001	49	8	223	352	406	458	509	572	634
Steam Electric Power		Cooke	Red	Pwr	31002049	C	1002	1002	49	2	0	0	0	0	0	0	0

A		B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Water User Group	Partial	**County Name**	**Basin Name**	**Category**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Steam Electric Power		Cooke	Trinity	Pwr	31002049	C	1002	1002	49	8	0	0	0	0	0	0	0
Mining		Cooke	Red	Min	31003049	C	1003	1003	49	2	43	242	135	96	58	45	42
Mining		Cooke	Trinity	Min	31003049	C	1003	1003	49	8	246	353	298	289	283	283	288
Irrigation		Cooke	Red	Irr	31004049	C	1004	1004	49	2	288	194	188	182	176	171	165
Irrigation		Cooke	Trinity	Irr	31004049	C	1004	1004	49	8	156	96	93	90	87	84	82
Livestock		Cooke	Red	Stk	31005049	C	1005	1005	49	2	674	718	718	718	718	718	718
Livestock		Cooke	Trinity	Stk	31005049	C	1005	1005	49	8	1,444	1,538	1,538	1,538	1,538	1,538	1,538
Addison		Dallas	Trinity	Mun	30003000	C	3	673	57	8	5,447	7,170	9,764	10,783	11,795	12,907	13,650
Balch Springs		Dallas	Trinity	Mun	30049000	C	49	33	57	8	2,110	2,540	3,274	3,580	3,597	3,459	3,459
Carrollton	P	Dallas	Trinity	Mun	30147000	C	147	98	57	8	8,464	12,534	13,590	14,394	14,381	13,854	12,973
Cedar Hill	P	Dallas	Trinity	Mun	30151000	C	151	102	57	8	3,429	5,827	9,096	11,584	14,449	17,798	18,095
Cockrell Hill		Dallas	Trinity	Mun	30182000	C	182	121	57	8	493	660	668	688	672	647	647
Combine	P	Dallas	Trinity	Mun	30193000	C	193	766	57	8	51	82	96	111	124	128	136
Coppell		Dallas	Trinity	Mun	30201000	C	201	133	57	8	5,673	8,197	10,872	11,147	11,191	11,229	11,513
Dallas	P	Dallas	Trinity	Mun	30227000	C	227	151	57	8	260,026	299,587	327,135	337,064	343,528	351,157	358,390
De Soto		Dallas	Trinity	Mun	30234000	C	234	161	57	8	7,020	8,202	11,208	13,465	15,121	16,551	18,113
Duncanville		Dallas	Trinity	Mun	30256000	C	256	171	57	8	6,415	7,400	8,522	9,111	9,361	9,361	9,361
Farmers Branch		Dallas	Trinity	Mun	30293000	C	293	198	57	8	8,885	10,966	11,644	12,952	13,432	14,547	15,803
Garland	P	Dallas	Trinity	Mun	30334000	C	334	230	57	8	31,994	37,053	37,011	37,106	37,105	37,103	37,101
Glenn Heights	P	Dallas	Trinity	Mun	30344000	C	344	697	57	8	451	948	1,109	1,263	1,410	1,546	1,695
Grand Prairie	P	Dallas	Trinity	Mun	30353000	C	353	245	57	8	13,787	16,238	16,977	17,803	17,286	17,068	16,715
Grapevine	P	Dallas	Trinity	Mun	30360000	C	360	249	57	8	1	20	25	27	28	31	32
Highland Park		Dallas	Trinity	Mun	30402000	C	402	276	57	8	3,818	3,822	3,842	3,856	3,984	4,117	4,290
Hutchins		Dallas	Trinity	Mun	30429000	C	429	294	57	8	662	694	932	1,153	1,428	1,746	2,129
Irving		Dallas	Trinity	Mun	30437000	C	437	298	57	8	39,554	43,869	50,987	55,469	60,359	65,202	70,026
Lancaster		Dallas	Trinity	Mun	30509000	C	509	345	57	8	3,444	4,306	4,867	5,314	5,376	5,196	5,017
Lewisville	P	Dallas	Trinity	Mun	30519000	C	519	355	57	8	161	181	252	348	415	471	534
Mesquite		Dallas	Trinity	Mun	30592000	C	592	401	57	8	18,302	21,762	25,513	29,505	33,402	37,141	36,465
Ovilla	P	Dallas	Trinity	Mun	30663000	C	663	729	57	8	60	75	86	97	108	116	128
Richardson	P	Dallas	Trinity	Mun	30747000	C	747	498	57	8	20,065	23,649	26,054	27,112	27,717	28,165	28,824
Rowlett	P	Dallas	Trinity	Mun	30777000	C	777	521	57	8	4,544	7,472	9,085	10,712	12,160	12,912	14,053
Sachse	P	Dallas	Trinity	Mun	30784000	C	784	742	57	8	945	1,709	3,287	3,715	4,226	4,639	4,955
Seagoville		Dallas	Trinity	Mun	30812000	C	812	547	57	8	1,209	1,774	2,891	3,433	3,820	4,106	4,280
Sunnyvale		Dallas	Trinity	Mun	30871000	C	871	749	57	8	602	837	1,715	2,191	2,277	2,301	2,320
University Park		Dallas	Trinity	Mun	30920000	C	920	615	57	8	6,127	6,314	6,196	6,095	6,131	6,166	6,304
Wilmer		Dallas	Trinity	Mun	30975000	C	975	657	57	8	284	359	446	492	495	478	478
County-Other		Dallas	Trinity	Mun	30996057	C	996	757	57	8	2,416	4,499	21,833	46,716	75,862	115,110	143,637
Manufacturing		Dallas	Trinity	Mfg	31001057	C	1001	1001	57	8	27,843	33,506	38,926	43,539	47,420	56,142	65,850
Steam Electric Power		Dallas	Trinity	Pwr	31002057	C	1002	1002	57	8	16,325	18,000	20,000	25,000	25,000	25,000	25,000
Mining		Dallas	Trinity	Min	31003057	C	1003	1003	57	8	2,986	3,867	4,376	5,124	5,878	6,638	7,498
Irrigation		Dallas	Trinity	Irr	31004057	C	1004	1004	57	8	1,317	100	100	100	100	100	100
Livestock		Dallas	Trinity	Stk	31005057	C	1005	1005	57	8	513	718	718	718	718	718	718
Argyle		Denton	Trinity	Mun	30036000	C	36	677	61	8	480	521	1,785	3,338	3,944	4,171	4,096
Aubrey		Denton	Trinity	Mun	30043000	C	43	758	61	8	146	165	274	430	602	750	1,300
Bartonville		Denton	Trinity	Mun	30058000	C	58	820	61	8	118	298	1,226	1,740	2,196	2,588	2,707
Carrollton	P	Denton	Trinity	Mun	30147000	C	147	98	61	8	9,671	10,898	12,547	13,744	14,028	13,827	13,251

A		B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Water User Group	Partial	**County Name**	**Basin Name**	**Category**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Copper Canyon		Denton	Trinity	Mun	30202000	C	202	849	61	8	203	321	796	1,270	1,254	1,478	1,546
Corinth		Denton	Trinity	Mun	30204000	C	204	691	61	8	881	2,254	4,395	6,301	6,805	6,497	6,519
Crossroads		Denton	Trinity	Mun	30996061	C	996	757	61	8		59	210	655	1,138	1,661	2,964
Dallas	P	Denton	Trinity	Mun	30227000	C	227	151	61	8	5,002	5,305	6,083	6,732	7,679	8,551	9,520
Denton		Denton	Trinity	Mun	30240000	C	240	159	61	8	13,773	18,790	24,520	34,648	43,149	51,259	61,229
Double Oak		Denton	Trinity	Mun	30251000	C	251	768	61	8	326	495	754	877	988	999	1,008
Flower Mound		Denton	Trinity	Mun	30301000	C	301	204	61	8	6,331	10,216	17,509	24,066	27,113	29,968	31,448
Frisco	P	Denton	Trinity	Mun	30319000	C	319	221	61	8	179	182	465	526	631	677	728
Hebron		Denton	Trinity	Mun	30390000	C	390	776	61	8	183	214	362	627	683	682	794
Hickory Creek		Denton	Trinity	Mun	30399000	C	399	704	61	8	268	324	694	1,167	1,305	1,450	1,601
Highland Village		Denton	Trinity	Mun	30403000	C	403	706	61	8	2,298	2,882	4,352	4,150	4,150	4,033	4,133
Justin		Denton	Trinity	Mun	30456000	C	456	784	61	8	241	313	455	878	1,376	2,195	2,608
Krugerville		Denton	Trinity	Mun	30481000	C	481	892	61	8	86	124	186	213	297	357	401
Krum		Denton	Trinity	Mun	30482000	C	482	785	61	8	207	381	550	727	965	1,122	1,265
Lake Dallas		Denton	Trinity	Mun	30498000	C	498	337	61	8	668	962	1,361	1,660	1,697	1,813	1,810
Lewisville	P	Denton	Trinity	Mun	30519000	C	519	355	61	8	10,509	18,128	27,152	35,720	40,071	41,160	42,254
Lincoln Park		Denton	Trinity	Mun	30996061	C	996	757	61	8		56	95	146	235	351	435
Little Elm		Denton	Trinity	Mun	30527000	C	527	790	61	8	210	341	598	1,044	1,494	1,821	1,942
Northlake		Denton	Trinity	Mun	30996061	C	996	757	61	8		83	840	2,240	3,921	5,713	7,393
Oak Point		Denton	Trinity	Mun	30648000	C	648	930	61	8	118	161	410	1,034	1,484	1,685	1,861
Pilot Point		Denton	Trinity	Mun	30695000	C	695	465	61	8	456	552	801	1,026	1,357	1,468	1,694
Plano	P	Denton	Trinity	Mun	30704000	C	704	472	61	8	238	17	24	30	38	44	51
Ponder		Denton	Trinity	Mun	30996061	C	996	757	61	8		65	241	623	1,044	1,270	1,403
Roanoke		Denton	Trinity	Mun	30758000	C	758	800	61	8	281	336	449	603	748	869	1,011
Sanger		Denton	Trinity	Mun	30801000	C	801	535	61	8	487	1,066	2,121	2,613	3,217	3,596	4,032
Shady Shores		Denton	Trinity	Mun	30820000	C	820	803	61	8	135	246	424	596	681	763	748
Southlake	P	Denton	Trinity	Mun	30846000	C	846	570	61	8	326	181	314	372	473	588	745
The Colony		Denton	Trinity	Mun	30891000	C	891	752	61	8	3,014	3,404	6,232	9,409	10,417	11,199	10,946
Trophy Club		Denton	Trinity	Mun	30911000	C	911	806	61	8	1,467	1,790	2,704	3,687	4,700	5,547	6,546
County-Other		Denton	Trinity	Mun	30996061	C	996	757	61	8	3,245	6,128	7,224	15,116	32,574	37,668	42,113
Manufacturing		Denton	Trinity	Mfg	31001061	C	1001	1001	61	8	963	799	943	1,067	1,172	1,418	1,699
Steam Electric Power		Denton	Trinity	Pwr	31002061	C	1002	1002	61	8	84	0	4,500	4,500	4,500	6,000	6,000
Mining		Denton	Trinity	Min	31003061	C	1003	1003	61	8	139	146	138	144	154	166	182
Irrigation		Denton	Trinity	Irr	31004061	C	1004	1004	61	8	472	750	750	750	750	750	750
Livestock		Denton	Trinity	Stk	31005061	C	1005	1005	61	8	1,870	1,256	1,256	1,256	1,256	1,256	1,256
Cedar Hill	P	Ellis	Trinity	Mun	30151000	C	151	102	70	8	113	13	23	31	40	43	48
Ennis		Ellis	Trinity	Mun	30284000	C	284	192	70	8	2,144	2,558	3,013	3,544	4,074	3,984	4,015
Ferris		Ellis	Trinity	Mun	30296000	C	296	201	70	8	328	303	381	470	561	571	582
Glenn Heights	P	Ellis	Trinity	Mun	30344000	C	344	697	70	8	107	162	201	233	271	281	291
Grand Prairie	P	Ellis	Trinity	Mun	30353000	C	353	245	70	8	1	12	21	39	37	36	35
Italy		Ellis	Trinity	Mun	30438000	C	438	299	70	8	203	288	408	536	654	673	673
Mansfield	P	Ellis	Trinity	Mun	30559000	C	559	384	70	8	30	94	156	232	318	379	452
Maypearl		Ellis	Trinity	Mun	30573000	C	573	911	70	8	64	158	162	170	170	170	182
Midlothian		Ellis	Trinity	Mun	30596000	C	596	405	70	8	1,040	1,996	2,541	3,083	3,578	3,811	4,080
Milford		Ellis	Trinity	Mun	30598000	C	598	916	70	8	80	118	132	142	148	147	149
Oak Leaf		Ellis	Trinity	Mun	30647000	C	647	929	70	8	170	168	190	224	254	278	302

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Water User Group	Partial	**County Name**	**Basin Name**	**Category**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Ovilla	P	Ellis	Trinity	Mun	30663000	C	663	729	70	8	400	669	783	882	971	978	1,010
Palmer		Ellis	Trinity	Mun	30671000	C	671	731	70	8	205	214	301	373	444	481	521
Pecan Hill		Ellis	Trinity	Mun	30686000	C	686	935	70	8	93	102	108	108	113	120	127
Red Oak		Ellis	Trinity	Mun	30739000	C	739	737	70	8	469	685	894	1,110	1,312	1,404	1,526
Waxahachie		Ellis	Trinity	Mun	30943000	C	943	633	70	8	3,452	5,634	6,339	6,387	7,289	8,025	8,930
County-Other		Ellis	Trinity	Mun	30996070	C	996	757	70	8	5,156	5,368	6,340	6,999	7,355	7,636	7,424
Manufacturing		Ellis	Trinity	Mfg	31001070	C	1001	1001	70	8	3,470	4,313	4,684	4,925	5,163	5,402	5,639
Steam Electric Power		Ellis	Trinity	Pwr	31002070	C	1002	1002	70	8	0	0	15,000	15,000	15,000	18,000	18,000
Mining		Ellis	Trinity	Min	31003070	C	1003	1003	70	8	90	110	120	135	150	165	182
Irrigation		Ellis	Trinity	Irr	31004070	C	1004	1004	70	8	230	120	120	120	120	120	120
Livestock		Ellis	Trinity	Stk	31005070	C	1005	1005	70	8	1,876	1,287	1,287	1,287	1,287	1,287	1,287
Bonham		Fannin	Red	Mun	30098000	C	98	65	74	2	1,341	1,626	1,654	1,678	1,738	1,839	1,946
Honey Grove		Fannin	Red	Mun	30415000	C	415	283	74	2	19	22	22	22	24	24	27
Honey Grove		Fannin	Sulphur	Mun	30415000	C	415	283	74	3	359	407	421	429	445	472	499
Leonard		Fannin	Sulphur	Mun	30517000	C	517	352	74	3	25	32	32	32	33	34	37
Leonard		Fannin	Trinity	Mun	30517000	C	517	352	74	8	225	284	287	290	294	307	326
Savoy		Fannin	Red	Mun	30807000	C	807	957	74	2	96	124	120	116	112	108	104
Trenton		Fannin	Trinity	Mun	30908000	C	908	978	74	8	132	145	149	151	157	163	172
County-Other		Fannin	Red	Mun	30996074	C	996	757	74	2	1,109	1,653	1,856	2,020	2,085	2,019	1,895
County-Other		Fannin	Sulphur	Mun	30996074	C	996	757	74	3	339	505	567	612	631	611	575
County-Other		Fannin	Trinity	Mun	30996074	C	996	757	74	8	83	57	67	78	81	67	67
Manufacturing		Fannin	Red	Mfg	31001074	C	1001	1001	74	2	38	39	44	49	54	59	66
Manufacturing		Fannin	Sulphur	Mfg	31001074	C	1001	1001	74	3	291	0	0	0	0	0	0
Manufacturing		Fannin	Trinity	Mfg	31001074	C	1001	1001	74	8	0	0	0	0	0	0	0
Steam Electric Power		Fannin	Red	Pwr	31002074	C	1002	1002	74	2	7,975	5,000	6,000	7,000	8,000	9,000	10,000
Steam Electric Power		Fannin	Sulphur	Pwr	31002074	C	1002	1002	74	3	0	0	0	0	0	0	0
Steam Electric Power		Fannin	Trinity	Pwr	31002074	C	1002	1002	74	8	0	0	0	0	0	0	0
Mining		Fannin	Red	Min	31003074	C	1003	1003	74	2	161	0	0	0	0	0	0
Mining		Fannin	Sulphur	Min	31003074	C	1003	1003	74	3	0	0	0	0	0	0	0
Mining		Fannin	Trinity	Min	31003074	C	1003	1003	74	8	0	0	0	0	0	0	0
Irrigation		Fannin	Red	Irr	31004074	C	1004	1004	74	2	3,563	1,189	1,094	1,006	926	852	784
Irrigation		Fannin	Sulphur	Irr	31004074	C	1004	1004	74	3	0	0	0	0	0	0	0
Irrigation		Fannin	Trinity	Irr	31004074	C	1004	1004	74	8	0	0	0	0	0	0	0
Livestock		Fannin	Red	Stk	31005074	C	1005	1005	74	2	1,267	732	732	732	732	732	732
Livestock		Fannin	Sulphur	Stk	31005074	C	1005	1005	74	3	408	236	236	236	236	236	236
Livestock		Fannin	Trinity	Stk	31005074	C	1005	1005	74	8	84	49	49	49	49	49	49
Fairfield		Freestone	Trinity	Mun	30289000	C	289	196	81	8	616	691	725	787	841	860	880
Teague		Freestone	Trinity	Mun	30884000	C	884	596	81	8	111	134	137	138	139	140	141
Teague		Freestone	Brazos	Mun	30884000	C	884	596	81	12	258	312	319	322	323	326	329
Wortham		Freestone	Trinity	Mun	30990000	C	990	668	81	8	136	267	274	292	312	320	331
County-Other		Freestone	Trinity	Mun	30996081	C	996	757	81	8	1,123	959	919	860	839	847	844
County-Other		Freestone	Brazos	Mun	30996081	C	996	757	81	12	251	213	203	190	185	187	187
Manufacturing		Freestone	Trinity	Mfg	31001081	C	1001	1001	81	8	0	0	0	0	0	0	0
Manufacturing		Freestone	Brazos	Mfg	31001081	C	1001	1001	81	12	0	0	0	0	0	0	0
Steam Electric Power		Freestone	Trinity	Pwr	31002081	C	1002	1002	81	8	16,150	16,000	27,000	29,000	29,000	33,192	33,192
Steam Electric Power		Freestone	Brazos	Pwr	31002081	C	1002	1002	81	12	0	0	0	0	0	0	0

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Water User Group	Partial	County Name	Basin Name	Category	WUG Number	RWPG	Sequence Number	City Number	County Number	Basin Number	1996	2000	2010	2020	2030	2040	2050
Mining		Freestone	Trinity	Min	31003081	C	1003	1003	81	8	194	122	104	33	18	8	5
Mining		Freestone	Brazos	Min	31003081	C	1003	1003	81	12	13	15	16	17	18	19	20
Irrigation		Freestone	Trinity	Irr	31004081	C	1004	1004	81	8	17	20	20	20	20	20	20
Irrigation		Freestone	Brazos	Irr	31004081	C	1004	1004	81	12	0	5	5	5	5	5	5
Livestock		Freestone	Trinity	Stk	31005081	C	1005	1005	81	8	1,602	1,231	1,231	1,231	1,231	1,231	1,231
Livestock		Freestone	Brazos	Stk	31005081	C	1005	1005	81	12	137	105	105	105	105	105	105
Bells		Grayson	Red	Mun	30071000	C	71	824	91	2	130	139	142	159	170	181	193
Collinsville		Grayson	Trinity	Mun	30187000	C	187	765	91	8	152	167	170	174	176	176	176
Denison		Grayson	Red	Mun	30239000	C	239	158	91	2	4,855	4,113	4,040	3,984	4,007	4,025	4,131
Gunter		Grayson	Trinity	Mun	30370000	C	370	876	91	8	148	145	152	187	200	217	234
Howe		Grayson	Red	Mun	30419000	C	419	286	91	2	247	263	275	270	344	343	341
Howe		Grayson	Trinity	Mun	30419000	C	419	286	91	8	62	66	69	68	87	86	85
Luella		Grayson	Red	Mun	30548000	C	548	905	91	2	99	106	108	110	112	114	117
Pottsboro		Grayson	Red	Mun	30719000	C	719	797	91	2	170	261	275	335	385	432	482
Sherman		Grayson	Red	Mun	30827000	C	827	556	91	2	7,171	7,561	7,742	7,583	7,992	8,401	8,830
Southmayd		Grayson	Red	Mun	30847000	C	847	961	91	2	99	132	138	142	146	153	160
Tioga		Grayson	Trinity	Mun	30902000	C	902	974	91	8	73	96	100	106	111	117	123
Tom Bean		Grayson	Red	Mun	30904000	C	904	976	91	2	186	191	192	199	206	208	215
Van Alstyne		Grayson	Trinity	Mun	30925000	C	925	619	91	8	297	373	524	754	920	1,121	1,367
Whitesboro		Grayson	Red	Mun	30967000	C	967	650	91	2	528	624	656	599	628	661	695
Whitesboro		Grayson	Trinity	Mun	30967000	C	967	650	91	8	27	32	34	30	33	35	36
Whitewright		Grayson	Red	Mun	30968000	C	968	652	91	2	257	270	278	285	292	297	302
County-Other		Grayson	Red	Mun	30996091	C	996	757	91	2	2,856	3,683	3,541	3,525	3,293	3,027	2,439
County-Other		Grayson	Trinity	Mun	30996091	C	996	757	91	8	613	823	791	771	719	662	535
Manufacturing		Grayson	Red	Mfg	31001091	C	1001	1001	91	2	6,165	6,204	6,724	7,084	7,547	8,162	9,011
Manufacturing		Grayson	Trinity	Mfg	31001091	C	1001	1001	91	8	11	10	11	11	12	13	14
Steam Electric Power		Grayson	Red	Pwr	31002091	C	1002	1002	91	2	0	0	0	0	0	0	0
Steam Electric Power		Grayson	Trinity	Pwr	31002091	C	1002	1002	91	8	0	0	0	0	0	0	0
Mining		Grayson	Red	Min	31003091	C	1003	1003	91	2	360	376	377	384	394	405	416
Mining		Grayson	Trinity	Min	31003091	C	1003	1003	91	8	698	657	567	537	532	531	538
Irrigation		Grayson	Red	Irr	31004091	C	1004	1004	91	2	545	191	201	212	223	235	248
Irrigation		Grayson	Trinity	Irr	31004091	C	1004	1004	91	8	1,533	1,434	1,510	1,590	1,675	1,763	1,857
Livestock		Grayson	Red	Stk	31005091	C	1005	1005	91	2	1,199	733	733	733	733	733	733
Livestock		Grayson	Trinity	Stk	31005091	C	1005	1005	91	8	671	410	410	410	410	410	410
Athens		Henderson	Trinity	Mun	30041000	C	41	28	107	8	1,916	2,251	2,384	2,412	2,554	2,705	2,925
Eustace		Henderson	Trinity	Mun	30286000	C	286	864	107	8	89	122	127	131	131	129	125
Gun Barrel City		Henderson	Trinity	Mun	30369000	C	369	699	107	8	940	1,055	1,141	1,237	1,292	1,333	1,369
Mabank	P	Henderson	Trinity	Mun	30554000	C	554	375	107	8	69	72	90	99	113	114	115
Malakoff		Henderson	Trinity	Mun	30557000	C	557	383	107	8	314	429	448	462	468	466	478
Payne Springs		Henderson	Trinity	Mun	30682000	C	682	934	107	8	131	168	174	174	180	188	199
Seven Points		Henderson	Trinity	Mun	30818000	C	818	959	107	8	100	121	120	118	118	119	120
Tool		Henderson	Trinity	Mun	30906000	C	906	753	107	8	329	366	376	384	399	402	409
Trinidad		Henderson	Trinity	Mun	30909000	C	909	609	107	8	90	195	192	195	199	199	200
County-Other		Henderson	Trinity	Mun	30996107	C	996	757	107	8	2,867	2,708	2,919	3,081	3,060	2,897	2,777
Manufacturing		Henderson	Trinity	Mfg	31001107	C	1001	1001	107	8	72	96	107	115	129	147	167
Steam Electric Power		Henderson	Trinity	Pwr	31002107	C	1002	1002	107	8	2,151	4,000	4,000	4,000	4,000	4,000	4,000

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Water User Group	Partial	**County Name**	**Basin Name**	**Category**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Mining		Henderson	Trinity	Min	31003107	C	1003	1003	107	8	615	184	161	140	124	108	94
Irrigation		Henderson	Trinity	Irr	31004107	C	1004	1004	107	8	29	30	30	30	30	30	30
Livestock		Henderson	Trinity	Stk	31005107	C	1005	1005	107	8	1,073	900	900	900	900	900	900
Bryson		Jack	Brazos	Mun	30124000	C	124	834	119	12	64	76	74	72	70	67	65
Jacksboro		Jack	Trinity	Mun	30441000	C	441	302	119	8	587	591	630	650	698	750	806
County-Other		Jack	Trinity	Mun	30996119	C	996	757	119	8	222	299	282	273	260	244	230
County-Other		Jack	Brazos	Mun	30996119	C	996	757	119	12	177	240	230	225	219	207	195
Manufacturing		Jack	Trinity	Mfg	31001119	C	1001	1001	119	8	0	0	0	0	0	0	0
Manufacturing		Jack	Brazos	Mfg	31001119	C	1001	1001	119	12	0	0	0	0	0	0	0
Steam Electric Power		Jack	Trinity	Pwr	31002119	C	1002	1002	119	8	0	0	0	0	0	0	0
Steam Electric Power		Jack	Brazos	Pwr	31002119	C	1002	1002	119	12	0	0	0	0	0	0	0
Mining		Jack	Trinity	Min	31003119	C	1003	1003	119	8	429	540	477	458	449	453	462
Mining		Jack	Brazos	Min	31003119	C	1003	1003	119	12	4	4	2	2	1	0	0
Irrigation		Jack	Trinity	Irr	31004119	C	1004	1004	119	8	0	0	0	0	0	0	0
Irrigation		Jack	Brazos	Irr	31004119	C	1004	1004	119	12	4	12	12	12	12	12	12
Livestock		Jack	Trinity	Stk	31005119	C	1005	1005	119	8	1,349	643	643	643	643	643	643
Livestock		Jack	Brazos	Stk	31005119	C	1005	1005	119	12	501	239	239	239	239	239	239
Combine	P	Kaufman	Trinity	Mun	30193000	C	193	766	129	8	105	256	333	384	415	434	454
Crandall		Kaufman	Trinity	Mun	30210000	C	210	767	129	8	355	399	543	625	744	817	898
Dallas	P	Kaufman	Trinity	Mun	30227000	C	227	151	129	8	3	2	2	2	2	2	2
Forney		Kaufman	Trinity	Mun	30304000	C	304	207	129	8	706	1,042	2,128	3,276	4,493	5,896	7,331
Kaufman		Kaufman	Trinity	Mun	30459000	C	459	313	129	8	540	1,014	1,255	1,477	1,653	1,758	1,855
Kemp		Kaufman	Trinity	Mun	30463000	C	463	711	129	8	163	245	283	324	354	382	413
Mabank	P	Kaufman	Trinity	Mun	30554000	C	554	375	129	8	326	489	603	661	754	813	878
Oak Grove		Kaufman	Trinity	Mun	30646000	C	646	928	129	8	68	107	114	119	121	122	120
Terrell		Kaufman	Trinity	Mun	30887000	C	887	599	129	8	2,491	2,946	3,417	3,827	4,262	4,471	4,721
County-Other		Kaufman	Sabine	Mun	30996129	C	996	757	129	5	131	171	201	238	270	291	298
County-Other		Kaufman	Trinity	Mun	30996129	C	996	757	129	8	3,219	4,268	5,031	5,950	6,769	7,299	7,471
Manufacturing		Kaufman	Sabine	Mfg	31001129	C	1001	1001	129	5	0	0	0	0	0	0	0
Manufacturing		Kaufman	Trinity	Mfg	31001129	C	1001	1001	129	8	334	343	364	387	406	433	463
Steam Electric Power		Kaufman	Sabine	Pwr	31002129	C	1002	1002	129	5	0	0	0	0	0	0	0
Steam Electric Power		Kaufman	Trinity	Pwr	31002129	C	1002	1002	129	8	0	7,800	8,000	8,000	10,000	10,000	15,000
Mining		Kaufman	Sabine	Min	31003129	C	1003	1003	129	5	0	0	0	0	0	0	0
Mining		Kaufman	Trinity	Min	31003129	C	1003	1003	129	8	75	96	106	121	136	151	168
Irrigation		Kaufman	Sabine	Irr	31004129	C	1004	1004	129	5	0	0	0	0	0	0	0
Irrigation		Kaufman	Trinity	Irr	31004129	C	1004	1004	129	8	335	759	739	719	700	681	663
Livestock		Kaufman	Sabine	Stk	31005129	C	1005	1005	129	5	101	72	72	72	72	72	72
Livestock		Kaufman	Trinity	Stk	31005129	C	1005	1005	129	8	1,701	1,210	1,210	1,210	1,210	1,210	1,210
Blooming Grove		Navarro	Trinity	Mun	30090000	C	90	828	175	8	93	115	113	112	111	109	107
Corsicana		Navarro	Trinity	Mun	30207000	C	207	137	175	8	5,164	5,013	5,568	5,746	6,223	6,739	7,298
Dawson		Navarro	Trinity	Mun	30230000	C	230	855	175	8	163	147	142	125	120	120	121
Frost		Navarro	Trinity	Mun	30321000	C	321	868	175	8	79	84	83	82	81	80	79
Kerens		Navarro	Trinity	Mun	30466000	C	466	712	175	8	164	190	190	190	190	190	190
Rice		Navarro	Trinity	Mun	30746000	C	746	947	175	8	129	185	182	186	191	198	209
County-Other		Navarro	Trinity	Mun	30996175	C	996	757	175	8	1,808	2,264	2,158	2,274	2,353	2,178	1,933
Manufacturing		Navarro	Trinity	Mfg	31001175	C	1001	1001	175	8	1,088	868	968	1,043	1,118	1,215	1,312

A		B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Water User Group	Partial	**County Name**	**Basin Name**	**Category**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Steam Electric Power		Navarro	Trinity	Pwr	31002175	C	1002	1002	175	8	0	0	0	0	0	0	0
Mining		Navarro	Trinity	Min	31003175	C	1003	1003	175	8	89	104	110	121	132	143	155
Irrigation		Navarro	Trinity	Irr	31004175	C	1004	1004	175	8	0	0	0	0	0	0	0
Livestock		Navarro	Trinity	Stk	31005175	C	1005	1005	175	8	1,781	1,331	1,331	1,331	1,331	1,331	1,331
Aledo		Parker	Trinity	Mun	30009000	C	9	674	184	8	149	183	320	535	748	869	869
Annetta		Parker	Trinity	Mun	30030000	C	30	814	184	8	90	106	186	314	442	622	874
Azle	P	Parker	Trinity	Mun	30046000	C	46	31	184	8	180	279	361	422	476	505	528
Briar	P	Parker	Trinity	Mun	30110000	C	110	682	184	8	107	97	112	129	145	159	172
Hudson Oaks		Parker	Trinity	Mun	30422000	C	422	883	184	8	121	161	408	992	1,746	1,746	1,746
Mineral Wells		Parker	Brazos	Mun	30600000	C	600	407	184	12	102	98	106	115	128	138	150
Reno		Parker	Trinity	Mun	30744000	C	744	739	184	8	143	323	368	528	603	670	745
Springtown		Parker	Trinity	Mun	30853000	C	853	574	184	8	300	409	617	759	857	943	1,037
Weatherford		Parker	Trinity	Mun	30944000	C	944	634	184	8	2,646	3,420	4,351	5,905	8,012	10,874	14,755
Weatherford		Parker	Brazos	Mun	30944000	C	944	634	184	12	140	181	230	311	423	573	778
Willow Park		Parker	Trinity	Mun	30973000	C	973	756	184	8	426	364	636	1,066	1,490	2,081	2,908
County-Other		Parker	Trinity	Mun	30996184	C	996	757	184	8	3,188	3,223	4,576	4,727	5,338	4,488	2,604
County-Other		Parker	Brazos	Mun	30996184	C	996	757	184	12	1,706	1,787	2,530	2,600	2,913	2,440	1,416
Manufacturing		Parker	Trinity	Mfg	31001184	C	1001	1001	184	8	113	236	262	287	311	337	358
Manufacturing		Parker	Brazos	Mfg	31001184	C	1001	1001	184	12	276	67	80	93	105	125	139
Steam Electric Power		Parker	Trinity	Pwr	31002184	C	1002	1002	184	8	71	0	6,000	6,000	10,000	12,000	12,000
Steam Electric Power		Parker	Brazos	Pwr	31002184	C	1002	1002	184	12	0	0	0	0	0	0	0
Mining		Parker	Trinity	Min	31003184	C	1003	1003	184	8	55	63	62	64	66	68	70
Mining		Parker	Brazos	Min	31003184	C	1003	1003	184	12	35	1,803	2,003	2,288	2,574	2,895	3,256
Irrigation		Parker	Trinity	Irr	31004184	C	1004	1004	184	8	94	1	1	1	1	1	1
Irrigation		Parker	Brazos	Irr	31004184	C	1004	1004	184	12	294	29	29	29	29	29	29
Livestock		Parker	Trinity	Stk	31005184	C	1005	1005	184	8	1,140	689	689	689	689	689	689
Livestock		Parker	Brazos	Stk	31005184	C	1005	1005	184	12	996	601	601	601	601	601	601
Dallas	P	Rockwall	Trinity	Mun	30227000	C	227	151	199	8	13	13	16	20	26	32	39
Heath		Rockwall	Trinity	Mun	30388000	C	388	702	199	8	537	750	1,026	1,394	1,845	2,353	3,000
Rockwall		Rockwall	Trinity	Mun	30766000	C	766	513	199	8	2,921	4,016	8,643	12,677	16,235	20,428	24,426
Rowlett	P	Rockwall	Trinity	Mun	30777000	C	777	521	199	8	775	1,326	2,363	3,234	4,382	5,779	7,621
Royse City	P	Rockwall	Sabine	Mun	30779000	C	779	522	199	5	433	706	1,485	2,015	4,309	5,045	5,764
Wylie	P	Rockwall	Trinity	Mun	30991000	C	991	669	199	8	13	11	10	11	11	12	13
County-Other		Rockwall	Sabine	Mun	30996199	C	996	757	199	5	327	421	100	102	21	293	621
County-Other		Rockwall	Trinity	Mun	30996199	C	996	757	199	8	1,382	1,776	420	432	90	1,236	2,623
Manufacturing		Rockwall	Sabine	Mfg	31001199	C	1001	1001	199	5	4	0	0	0	0	0	0
Manufacturing		Rockwall	Trinity	Mfg	31001199	C	1001	1001	199	8	10	5	6	6	6	6	6
Steam Electric Power		Rockwall	Sabine	Pwr	31002199	C	1002	1002	199	5	0	0	0	0	0	0	0
Steam Electric Power		Rockwall	Trinity	Pwr	31002199	C	1002	1002	199	8	0	0	5,600	6,000	6,000	6,000	6,000
Mining		Rockwall	Sabine	Min	31003199	C	1003	1003	199	5	33	0	0	0	0	0	0
Mining		Rockwall	Trinity	Min	31003199	C	1003	1003	199	8	0	0	0	0	0	0	0
Irrigation		Rockwall	Sabine	Irr	31004199	C	1004	1004	199	5	0	0	0	0	0	0	0
Irrigation		Rockwall	Trinity	Irr	31004199	C	1004	1004	199	8	0	0	0	0	0	0	0
Livestock		Rockwall	Sabine	Stk	31005199	C	1005	1005	199	5	22	26	26	26	26	26	26
Livestock		Rockwall	Trinity	Stk	31005199	C	1005	1005	199	8	96	110	110	110	110	110	110
Arlington		Tarrant	Trinity	Mun	30037000	C	37	25	220	8	55,660	67,818	73,479	78,878	81,059	80,931	83,470

A		B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Water User Group	Partial	**County Name**	**Basin Name**	**Category**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Azle	P	Tarrant	Trinity	Mun	30046000	C	46	31	220	8	1,189	1,504	1,929	2,369	2,652	2,862	3,042
Bedford		Tarrant	Trinity	Mun	30067000	C	67	44	220	8	8,642	9,949	10,697	10,639	10,387	10,135	9,946
Benbrook		Tarrant	Trinity	Mun	30075000	C	75	51	220	8	4,086	5,127	5,555	6,017	6,211	6,298	6,383
Blue Mound		Tarrant	Trinity	Mun	30093000	C	93	62	220	8	214	320	321	349	351	350	347
Briar	P	Tarrant	Trinity	Mun	30110000	C	110	682	220	8	349	514	636	756	774	818	857
Burleson		Tarrant	Trinity	Mun	30131000	C	131	87	220	8	414	354	411	487	522	525	528
Colleyville		Tarrant	Trinity	Mun	30186000	C	186	125	220	8	4,951	6,177	9,087	11,463	11,796	11,944	12,136
Crowley		Tarrant	Trinity	Mun	30218000	C	218	145	220	8	857	1,031	1,192	1,470	1,681	1,885	2,126
Dalworthington Gard.		Tarrant	Trinity	Mun	30228000	C	228	692	220	8	502	622	876	987	1,048	1,142	1,251
Edgecliff		Tarrant	Trinity	Mun	30267000	C	267	180	220	8	454	575	565	551	541	528	518
Euless		Tarrant	Trinity	Mun	30285000	C	285	193	220	8	7,135	8,423	9,105	10,151	9,888	9,690	9,492
Everman		Tarrant	Trinity	Mun	30287000	C	287	194	220	8	611	837	808	779	750	721	692
Forest Hill		Tarrant	Trinity	Mun	30303000	C	303	206	220	8	1,461	1,591	1,638	1,825	1,907	1,836	1,779
Fort Worth		Tarrant	Trinity	Mun	30311000	C	311	213	220	8	107,705	127,946	134,262	143,673	144,230	150,195	155,600
Grand Prairie	P	Tarrant	Trinity	Mun	30353000	C	353	245	220	8	3,111	4,698	6,596	9,129	8,981	9,003	9,015
Grapevine	P	Tarrant	Trinity	Mun	30360000	C	360	249	220	8	7,847	8,437	10,182	11,178	11,538	11,699	11,856
Haltom City		Tarrant	Trinity	Mun	30375000	C	375	261	220	8	4,802	6,309	6,633	6,737	6,700	6,584	6,517
Haslet		Tarrant	Trinity	Mun	30384000	C	384	879	220	8	196	229	267	372	456	478	503
Hurst		Tarrant	Trinity	Mun	30428000	C	428	293	220	8	6,351	6,794	6,997	7,200	6,944	6,882	6,818
Keller		Tarrant	Trinity	Mun	30461000	C	461	315	220	8	3,468	4,826	6,051	7,136	7,656	7,746	7,882
Kennedale		Tarrant	Trinity	Mun	30465000	C	465	318	220	8	763	1,274	1,955	2,280	2,549	3,082	3,513
Lake Worth Village		Tarrant	Trinity	Mun	30501000	C	501	341	220	8	579	718	798	908	934	936	937
Mansfield	P	Tarrant	Trinity	Mun	30559000	C	559	384	220	8	3,641	5,331	6,713	8,901	10,517	13,615	16,561
North Richland Hills		Tarrant	Trinity	Mun	30642000	C	642	435	220	8	7,662	9,640	11,394	13,461	14,684	16,011	17,475
Pantego		Tarrant	Trinity	Mun	30677000	C	677	454	220	8	584	581	585	604	592	582	582
Pelican Bay		Tarrant	Trinity	Mun	30688000	C	688	795	220	8	112	201	246	306	357	392	431
Richland Hills		Tarrant	Trinity	Mun	30748000	C	748	499	220	8	1,176	1,334	1,523	1,750	1,922	2,273	2,709
River Oaks		Tarrant	Trinity	Mun	30756000	C	756	505	220	8	881	1,111	1,049	881	881	881	881
Saginaw		Tarrant	Trinity	Mun	30785000	C	785	527	220	8	1,451	2,059	2,495	2,970	3,062	3,284	3,519
Sansom Park Village		Tarrant	Trinity	Mun	30802000	C	802	539	220	8	504	558	557	545	535	521	512
Southlake	P	Tarrant	Trinity	Mun	30846000	C	846	570	220	8	4,035	6,209	7,459	8,932	10,722	12,827	15,383
Watauga		Tarrant	Trinity	Mun	30942000	C	942	632	220	8	3,203	3,835	4,106	4,336	4,543	4,757	4,656
Westworth Village		Tarrant	Trinity	Mun	30959000	C	959	644	220	8	181	324	323	312	300	288	277
White Settlement		Tarrant	Trinity	Mun	30964000	C	964	651	220	8	2,134	2,287	2,233	2,198	2,144	2,108	2,055
County-Other		Tarrant	Trinity	Mun	30996220	C	996	757	220	8	7,999	8,652	12,807	16,803	21,524	33,045	30,054
Manufacturing		Tarrant	Trinity	Mfg	31001220	C	1001	1001	220	8	27,961	62,951	72,991	80,336	88,560	97,997	110,131
Steam Electric Power		Tarrant	Trinity	Pwr	31002220	C	1002	1002	220	8	7,572	7,000	8,000	10,000	10,000	11,800	11,800
Mining		Tarrant	Trinity	Min	31003220	C	1003	1003	220	8	103	96	94	96	99	102	105
Irrigation		Tarrant	Trinity	Irr	31004220	C	1004	1004	220	8	140	111	111	111	111	111	111
Livestock		Tarrant	Trinity	Stk	31005220	C	1005	1005	220	8	720	852	852	852	852	852	852
Alvord		Wise	Trinity	Mun	30019000	C	19	810	249	8	146	151	148	149	151	157	166
Aurora		Wise	Trinity	Mun	30044000	C	44	816	249	8	98	124	141	158	163	158	159
Boyd		Wise	Trinity	Mun	30103000	C	103	760	249	8	147	182	264	331	368	351	346
Briar	P	Wise	Trinity	Mun	30110000	C	110	682	249	8	149	149	166	182	195	195	190
Bridgeport		Wise	Trinity	Mun	30113000	C	113	76	249	8	694	729	781	905	1,006	1,108	1,210
Chico		Wise	Trinity	Mun	30163000	C	163	842	249	8	148	159	165	163	165	167	168

A		B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Water User Group	Partial	**County Name**	**Basin Name**	**Category**	**WUG Number**	**RWPG**	**Sequence Number**	**City Number**	**County Number**	**Basin Number**	**1996**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Decatur		Wise	Trinity	Mun	30235000	C	235	153	249	8	1,003	1,049	1,149	1,222	1,327	1,329	1,346
Rhome		Wise	Trinity	Mun	30745000	C	745	946	249	8	63	111	144	153	165	181	197
Newark		Wise	Trinity	Mun	30635000	C	635	920	249	8	94	136	172	197	204	219	237
County-Other		Wise	Trinity	Mun	30996249	C	996	757	249	8	3,274	3,875	5,272	6,911	8,074	9,051	9,493
Manufacturing		Wise	Trinity	Mfg	31001249	C	1001	1001	249	8	1,192	5,420	5,921	6,435	6,957	7,496	8,038
Steam Electric Power		Wise	Trinity	Pwr	31002249	C	1002	1002	249	8	0	0	11,200	11,200	11,200	11,200	11,200
Mining		Wise	Trinity	Min	31003249	C	1003	1003	249	8	15,867	4,086	3,902	3,966	4,057	4,172	4,297
Irrigation		Wise	Trinity	Irr	31004249	C	1004	1004	249	8	579	341	341	341	341	341	341
Livestock		Wise	Trinity	Stk	31005249	C	1005	1005	249	8	2,234	1,694	1,694	1,694	1,694	1,694	1,694
Total											1,126,518	1,376,373	1,695,661	1,944,893	#####	2,368,188	2,536,902

NOTE: Column titles in bold print are columns required by the Texas Water Development Board. The non-bolded columns are provided as additional information.

APPENDIX H

TWDB TABLE 3 – WATER DEMAND BY MAJOR WATER PROVIDER

APPENDIX H
TWDB TABLE 3 – WATER DEMAND BY MAJOR WATER PROVIDER

The following table is the third table required by the Texas Water Development Board (TWDB). This table lists the projected water demands of the major water providers in Region C. The five major water providers in Region C are Dallas Water Utilities, Tarrant Regional Water District, North Texas Municipal Water District, City of Fort Worth, and Trinity River Authority. TWDB Table 3 includes some columns with codes developed by the TWDB. The codes are defined below. The letter "P" in the Partial column denotes that the water user group is partially located within that county, as well as in at least one other county. The water user group number was developed by the TWDB for their use, and it consists of the regional number followed by the sequence number and then the county number.

Major Water Provider Numbers

The TWDB assigned identification numbers for all of the entities determined to be Major Water Providers within their regions. The following are the five Major Water Providers in Region C:

206800	Dallas Water Utilities
190	Tarrant Regional Water District
160	North Texas Municipal Water District
298900	City of Fort Worth
171	Trinity River Authority

Regional Water Planning Groups

The TWDB divided the State of Texas into 16 regions for the purpose of Senate Bill One water planning. The following are the 16 SB1 regions:

A	Panhandle Water Planning Group
B	Region B Water Planning Group
C	Region C Water Planning Group
D	North East Texas Regional Water Planning Group
E	Far West Texas Water Planning Group
F	Region F Water Planning Group
G	Brazos G Water Planning Group
H	Region H Water Planning Group
I	East Texas Water Planning Group
J	Plateau Water Planning Group
K	Lower Colorado Water Planning Group
L	South Central Texas Water Planning Group
M	Rio Grande Water Planning Group
N	Coastal Bend Water Planning Group
O	Llano-Estacado Water Planning Group
P	Lavaca Water Planning Group

County Number Code

The TWDB assigned county code numbers to every county in Texas. The following counties are included in Region C (Johnson County is actually in Region G, but major water providers in Region C are responsible for supplying two cities in Johnson County with surface water):

43	Collin
49	Cooke
57	Dallas
61	Denton
70	Ellis
74	Fannin
81	Freestone
91	Grayson
107	Henderson
119	Jack
126	Johnson
129	Kaufman
175	Navarro
184	Parker
199	Rockwall
220	Tarrant
249	Wise

Basin Numbers

The TWDB also assigned numbers to correspond to the various river basins in Texas. The following are the river basins in Region C:

2	Red River Basin
3	Sulphur River Basin
5	Sabine River Basin
6	Neches River Basin
8	Trinity River Basin
12	Brazos River Basin

TWDB Table 3
Water Demand by Major Provider of Municipal and Manufacturing Water

A	B	C		D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
Major Water Provider Name	Name of Recipient of Water	Recipient's City Name	Partial	Recipient's County Name	Recipient's Basin Name	Recipient's Data Category	Major Water Provider Number (TWDB Alpha Number)	Recipient of Water from the Major Water Provider (TWDB Alpha Number)	Recipient's Water User Group Identifier	Recipient's Regional Water Planning Group Letter	Recipient's Sequence Number	Recipient's City Number	Recipient's County Number	Recipient's Basin Number	1996	Projected Demands						Comments
																2000	2010	2020	2030	2040	2050	
Tarrant Regional Water District	Fort Worth	Fort Worth	P	Denton	Trinity	MUN	190	298900	30311000	C	311	213	61	8		1,902	3,491	0	0	0	0	Fort Worth customers in Denton County.
Tarrant Regional Water District	Ferris	Ferris		Ellis	Trinity	MUN	190	285600	30296000	C	296	201	70	8		0	807	807	807	807	807	Beginning in 2010, TRA contract for .72 MGD due to 1991 Ellis County Contract using TRWD pipelines.
Tarrant Regional Water District	Italy	Italy		Ellis	Trinity	MUN	190	426200	30438000	C	438	299	70	8		0	561	561	561	561	561	TRA contract for 0.5 MGD beginning in 2010 based on 1993 Ellis County Contract using TRWD pipelines. Facilities not in place.
Tarrant Regional Water District	Mansfield	Mansfield	P	Ellis	Trinity	MUN	190	535800	30559000	C	559	384	70	8	30	5	5	5	5	5	5	Projected demands.
Tarrant Regional Water District	Maypearl	Maypearl		Ellis	Trinity	MUN	190	545400	30573000	C	573	911	70	8		0	415	415	415	415	415	TRA contract for 0.37 MGD in 1991 Ellis County Contract using TRWD pipelines. Facilities not in place.
Tarrant Regional Water District	Midlothian	Midlothian		Ellis	Trinity	MUN	190	566200	30596000	C	596	405	70	8		0	1,682	1,682	1,682	1,682	1,682	Contract for 1682. Infrastructure not in place.
Tarrant Regional Water District	Midlothian	Midlothian		Ellis	Trinity	MUN	190	566200	30596000	C	596	405	70	8		0	370	370	370	370	370	Beginning in 2010, 0.33 MGD added to existing TRA contract due to 1991 Ellis County Contract using TRWD pipelines.
Tarrant Regional Water District	Palmer	Palmer		Ellis	Trinity	MUN	190	641400	30671000	C	671	731	70	8		0	304	304	304	304	304	TRA contract for 0.271 MGD in 1991 Ellis County Contract using TRWD pipelines. Facilities not in place.
Tarrant Regional Water District	Red Oak	Red Oak		Ellis	Trinity	MUN	190	721000	30739000	C	739	737	70	8		0	2,018	2,018	2,018	2,018	2,018	Beginning in 2010, 1.8 MGD contracted in TRA's 1991 Ellis County Contract using TRWD pipelines.
Tarrant Regional Water District	Waxahachie	Waxahachie		Ellis	Trinity	MUN	190	920800	30943000	C	943	633	70	8		0	5,209	5,209	5,209	5,209	5,209	Beginning in 2010, TRA's 1991 Ellis County Contract amount of 4.65 MGD using TRWD pipelines. Facilities not in place.
Tarrant Regional Water District	Jacksboro	Jacksboro		Jack	Trinity	MUN	190	432810	30441000	C	441	302	119	8	587	263	263	263	263	263	263	Contract 263 AF/Y.
Tarrant Regional Water District	Fort Worth	Fort Worth	P	Johnson	Trinity	MUN	190	298900	30311000	C	311	213	126	8		2,287	2,639	2,671	3,113	3,473	3,874	Fort Worth customers in Johnson County.
Tarrant Regional Water District	Mansfield	Mansfield	P	Johnson	Trinity	MUN	190	535800	70559000	G	559	384	126	8		136	142	158	172	212	262	Supply sent to Region G.

A	B	C		D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
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																2000	2010	2020	2030	2040	2050	
Tarrant Regional Water District	Gun Barrel City	Gun Barrel City		Henderson	Trinity	MUN	190	248601	30369000	C	369	699	107	8	940	1,055	1,141	1,237	1,292	1,333	1,369	Through ECCFWS.
Tarrant Regional Water District	Mabank	Mabank	P	Henderson	Trinity	MUN	190	521625	30554000	C	554	375	107	8	69	72	90	99	113	114	115	Projected demands.
Tarrant Regional Water District	Payne Springs	Payne Springs		Henderson	Trinity	MUN	190	652165	30682000	C	682	934	107	8	131	168	174	174	180	188	199	Through ECCFWS.
Tarrant Regional Water District	Seven Points	Seven Points		Henderson	Trinity	MUN	190	787901	30818000	C	818	959	107	8	100	121	120	118	118	119	120	Through West CC MUD.
Tarrant Regional Water District	Tool	Tool		Henderson	Trinity	MUN	190	928700	30906000	C	906	753	107	8	329	366	376	384	399	402	409	Through West CC MUD.
Tarrant Regional Water District	Kemp	Kemp		Kaufman	Trinity	MUN	190	461465	30463000	C	463	711	129	8	163	526	526	526	526	526	526	Contract 600 AF/Y. 74 AF/Y mun sales.
Tarrant Regional Water District	Mabank	Mabank	P	Kaufman	Trinity	MUN	190	521625	30554000	C	554	375	129	8	326	489	603	661	754	813	878	Projected demands.
Tarrant Regional Water District	Azle	Azle	P	Parker	Trinity	MUN	190	44500	30046000	C	46	31	184	8	180	279	361	422	476	505	528	Projected demands.
Tarrant Regional Water District	Reno	Reno		Parker	Trinity	MUN	190	722751	30744000	C	744	739	184	8	143	186	231	391	487	401	307	Through Springtown. Total demands cannot exceed 1344. Also uses 137 AF/Y Trinity Aquifer groundwater in 2000 down to 93 AF/Y in 2050.
Tarrant Regional Water District	Springtown	Springtown		Parker	Trinity	MUN	190	820180	30853000	C	853	574	184	8	300	1,158	1,113	953	857	943	1,037	Contract 1,344 AF/Y. Springtown sells water to Reno. Springtown needs are met throughout the time period. Reno demands exceed their supply around 2030.
Tarrant Regional Water District	Weatherford	Weatherford	P	Parker	Brazos	MUN	190	921600	30944000	C	944	634	184	12		0	149	235	353	509	719	Facilities not in place. Demand less Lake Weatherford supply 2010-2050.
Tarrant Regional Water District	Weatherford	Weatherford	P	Parker	Trinity	MUN	190	921600	30944000	C	944	634	184	8		0	3,012	4,653	6,854	9,810	13,778	Facilities not in place. Demand less Lake Weatherford supply 2010-2050.
Tarrant Regional Water District	Briar	Briar	P	Parker	Trinity	MUN	190	98071	30110000	C	110	682	184	8	107	97	112	129	145	159	172	Through Community WSC
Tarrant Regional Water District	Arlington	Arlington		Tarrant	Trinity	MUN	190	35000	30037000	C	37	25	220	8	55,660	67,818	73,479	78,878	81,059	80,931	83,470	Projected demands.

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																2000	2010	2020	2030	2040	2050	
Tarrant Regional Water District	Azle	Azle	P	Tarrant	Trinity	MUN	190	44500	30046000	C	46	31	220	8	1,189	1,504	1,929	2,369	2,652	2,862	3,042	Projected demands.
Tarrant Regional Water District	Benbrook	Benbrook		Tarrant	Trinity	MUN	190	69600	30075000	C	75	51	220	8	4,086	4,938	5,366	5,828	6,022	6,109	6,194	Also uses groundwater (Trinity Aquifer) 189 AF/Y
Tarrant Regional Water District	Blue Mound	Blue Mound		Tarrant	Trinity	MUN	190	82405	30093000	C	93	62	220	8	214	320	321	349	351	350	347	Through Tecon (Tecon has contract limit of 464).
Tarrant Regional Water District	Briar	Briar	P	Tarrant	Trinity	MUN	190	98071	30110000	C	110	682	220	8	349	514	636	756	774	818	857	Through Community WSC
Tarrant Regional Water District	Fort Worth	Fort Worth	P	Tarrant	Trinity	MUN	190	298900	30311000	C	311	213	220	8		182,203	187,840	156,074	161,054	170,893	180,985	Fort Worth and Fort Worth customers in Tarrant County.
Tarrant Regional Water District	Mansfield	Mansfield	P	Tarrant	Trinity	MUN	190	535800	30559000	C	559	384	220	8	3,641	5,420	6,864	9,128	10,830	13,990	17,008	Projected demands.
Tarrant Regional Water District	River Oaks	River Oaks		Tarrant	Trinity	MUN	190	730900	30756000	C	756	505	220	8	881	1,111	1,049	881	881	881	881	Projected demands.
Tarrant Regional Water District	TRA	TRA		Tarrant	Trinity	MUN	190	171		C			220	8		34,970	40,671	46,766	47,113	47,095	47,279	TRA customers: Bedford, Colleyville, Euless, Grapevine, North Richland Hills.
Tarrant Regional Water District	Briar	Briar	P	Wise	Trinity	MUN	190	98071	30110000	C	110	682	249	8	149	149	166	182	195	195	190	Through Community WSC
Tarrant Regional Water District	Bridgeport	Bridgeport		Wise	Trinity	MUN	190	98060	30113000	C	113	76	249	8	694	729	781	905	1,006	1,108	1,210	Projected demands.
Tarrant Regional Water District	Chico	Chico		Wise	Trinity	MUN	190	148200	30163000	C	163	842	249	8	11	24	28	26	50	52	53	Projected demands, less groundwater supply. Through W. Wise WSC.
Tarrant Regional Water District	Decatur	Decatur		Wise	Trinity	MUN	190	217200	30235000	C	235	153	249	8	1,003	4,000	4,000	4,000	4,000	4,000	4,000	Contract 4,000 AF/Y. Through Wise Co. WSD
Tarrant Regional Water District	County Other	County Other		Denton	Trinity	MUN	190		30996061	C	996	757	61	8		453	582	0	0	0	0	Fort Worth's Denton County Other demands.

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																2000	2010	2020	2030	2040	2050	
Tarrant Regional Water District	County Other	County Other		Ellis	Trinity	MUN	190		30996070	C	996	757	70	8		0	8,681	8,681	8,681	8,681	8,681	Beginning in 2010, 672 AF/Y contracted to Avalon Water and Sewer Service Corp., 952 AF/Y contracted to Buena Vista-Bethel WSC, 280 AF/Y contracted to Nash-Forreston WSC, and 6777 AF/Y contract to Rockett SUD based on 1991 Ellis County Contract using TRWD pipelines. TRA contracts.
Tarrant Regional Water District	County Other	County Other		Henderson	Trinity	MUN	190		30996107	C	996	757	107	8	1,204	1,045	1,256	1,418	1,397	1,234	1,114	TRWD provides Henderson County Other demands in Region C not met by groundwater.
Tarrant Regional Water District	County Other	County Other		Kaufman	Trinity	MUN	190		30996129	C	996	757	129	8		704	877	1,122	1,334	1,483	1,547	TRWD provides part of Kaufman County Other projected demands.
Tarrant Regional Water District	County Other	County Other		Navarro	Trinity	MUN	190		30996175	C	996	757	175	8		561	561	561	561	561	561	Based on contracts.
Tarrant Regional Water District	County Other	County Other		Parker	Trinity	MUN	190		30996184	C	996	757	184	8	669	1,126	3,098	3,249	4,120	3,270	1,386	TRWD provides 14% of Parker County Other (Trinity Basin).
Tarrant Regional Water District	County Other	County Other		Parker	Brazos	MUN	190		30996184	C	996	757	184	12		198	1,088	1,145	1,538	1,065	113	TRWD provides 10% of Parker County Other (Brazos Basin).
Tarrant Regional Water District	County Other	County Other		Tarrant	Trinity	MUN	190		30996220	C	996	757	220	8	2,160	3,982	4,290	5,154	5,881	8,020	6,851	TRWD provides part of Tarrant County Other plus the Fort Worth and TRA demands in Tarrant County.
Tarrant Regional Water District	County Other	County Other		Wise	Trinity	MUN	190		30996249	C	996	757	249	8	1,179	1,521	2,501	4,140	5,752	6,729	7,171	TRWD provides part of Wise County Other
Tarrant Regional Water District	Manufacturing	Manufacturing		Tarrant	Trinity	MFG	190		31001220	C	1001	1001	220	8		16,663	25,659	37,062	45,772	51,293	58,677	TRWD provides Tarrant County manufacturing demands not met by reuse or groundwater. Includes Fort Worth and TRA demands in Tarrant County.
Tarrant Regional Water District	Manufacturing	Manufacturing		Wise	Trinity	MFG	190		31001249	C	1001	1001	249	8	83	413	392	430	438	441	447	TRWD provides 7% Wise County Manufacturing.
Tarrant Regional Water District	Steam Electric Power	Steam Electric Power		Henderson	Trinity	PWR	190		31002107	C	1002	1002	107	8		5,800	5,800	5,800	5,800	5,800	5,800	Based on contracts.

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																2000	**2010**	**2020**	**2030**	**2040**	**2050**	
Tarrant Regional Water District	Steam Electric Power	Steam Electric Power		Tarrant	Trinity	PWR	190		31002220	C	1002	1002	220	8		14,756	14,756	14,756	14,756	14,756	14,756	Based on contracts.
Tarrant Regional Water District	Steam Electric Power	Steam Electric Power		Wise	Trinity	PWR	190		31002249	C	1002	1002	249	8		0	7,804	7,804	7,804	0	0	Based on contracts. Facilities not in place.
Tarrant Regional Water District	Mining	Mining		Tarrant	Trinity	MIN	190		31003220	C	1003	1003	220	8		200	0	0	0	0	0	Based on contracts.
Tarrant Regional Water District	Mining	Mining		Wise	Trinity	MIN	190		31003249	C	1003	1003	249	8		2,796	2,796	2,796	2,796	2,796	2,796	Based on contracts.
TRWD Total (Including Fort Worth and TRA)																**363,028**	**429,185**	**424,705**	**450,090**	**466,554**	**491,343**	
Fort Worth	*Northlake*	*Northlake*		*Denton*	*Trinity*	*MUN*	*298900*	*607863*	*30996061*	*C*	*996*	*757*	*61*	*8*	*0*	*44*	*787*	*0*	*0*	*0*	*0*	*Projected demands less 39 AF/Y of groundwater. Contract expires in 2010 (assumed).*
Fort Worth	*Roanoke*	*Roanoke*		*Denton*	*Trinity*	*MUN*	*298900*	*732200*	*30758000*	*C*	*758*	*800*	*61*	*8*	*140*	*195*	*308*	*0*	*0*	*0*	*0*	*Projected demands minus groundwater. Contract expires in 2010.*
Fort Worth	*Southlake*	*Southlake*	*P*	*Denton*	*Trinity*	*MUN*	*298900*	*807500*	*30846000*	*C*	*846*	*570*	*61*	*8*	*326*	*181*	*0*	*0*	*0*	*0*	*0*	*Projected demands. Contract expires in 2002.*
Fort Worth	*Trophy Club*	*Trophy Club*		*Denton*	*Trinity*	*MUN*	*298900*	*222805*	*30911000*	*C*	*911*	*806*	*61*	*8*	*1,159*	*1,482*	*2,396*	*0*	*0*	*0*	*0*	*Through Trophy Club #1. Projected demands minus groundwater. Contract expires in 2010.*
Fort Worth	*Burleson*	*Burleson*	*P*	*Johnson*	*Trinity*	*MUN*	*298900*	*112000*	*70131000*	*G*	*131*	*87*	*126*	*8*		*2,287*	*2,639*	*2,671*	*3,113*	*3,473*	*3,874*	*Sent to Region G*
Fort Worth	*Burleson*	*Burleson*	*P*	*Tarrant*	*Trinity*	*MUN*	*298900*	*112000*	*30131000*	*C*	*131*	*87*	*220*	*8*	*414*	*354*	*411*	*0*	*0*	*0*	*0*	*Projected demands. Contract expires in 2010.*
Fort Worth	*Crowley*	*Crowley*		*Tarrant*	*Trinity*	*MUN*	*298900*	*195600*	*30218000*	*C*	*218*	*145*	*220*	*8*	*857*	*948*	*1,109*	*0*	*0*	*0*	*0*	*Obtains 83 AF/Y from Trinity Aquifer. Contract expires in 2010.*
Fort Worth	*Dalworthington Gardens*	*Dalworthington Gardens*		*Tarrant*	*Trinity*	*MUN*	*298900*	*214800*	*30228000*	*C*	*228*	*692*	*220*	*8*	*502*	*548*	*802*	*0*	*0*	*0*	*0*	*Obtains 74 AF/Y from Trinity Aquifer. Contract expires in 2010.*
Fort Worth	*Edgecliff Village*	*Edgecliff Village*		*Tarrant*	*Trinity*	*MUN*	*298900*	*253900*	*30267000*	*C*	*267*	*180*	*220*	*8*	*454*	*575*	*565*	*0*	*0*	*0*	*0*	*Projected demands. Contract expires in 2010.*
Fort Worth	*Everman*	*Everman*		*Tarrant*	*Trinity*	*MUN*	*298900*	*271800*	*30287000*	*C*	*287*	*194*	*220*	*8*	*611*	*689*	*660*	*0*	*0*	*0*	*0*	*Obtains 148 AF/Y from Trinity Aquifer. Contract expires in 2010.*

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																2000	2010	2020	2030	2040	2050	
Fort Worth	Forest Hill	Forest Hill		Tarrant	Trinity	MUN	298900	293150	30303000	C	303	206	220	8	1,461	1,591	1,638	0	0	0	0	Projected demands. Contract expires in 2010.
Fort Worth	Fort Worth	Fort Worth		Tarrant	Trinity	MUN	298900	298900	30311000	C	311	213	220	8	107,705	127,946	134,262	143,673	144,230	150,195	155,600	Projected demands.
Fort Worth	Grand Prairie	Grand Prairie		Tarrant	Trinity	MUN	298900	336200	30353000	C	353	245	220	8	507	561	561	0	0	0	0	Contract for 0.5 MGD expires in 2010.
Fort Worth	Haltom City	Haltom City		Tarrant	Trinity	MUN	298900	366800	30375000	C	375	261	220	8	4,802	6,309	6,633	0	0	0	0	Projected demands. Contract ends 2010.
Fort Worth	Haslet	Haslet		Tarrant	Trinity	MUN	298900	374900	30384000	C	384	879	220	8	196	183	221	0	0	0	0	Obtains 46 AF/Y from Trinity Aquifer. Contract ends 2010.
Fort Worth	Hurst	Hurst		Tarrant	Trinity	MUN	298900	410800	30428000	C	428	293	220	8	5,501	6,491	6,694	0	0	0	0	Obtains 303 AF/Y from Trinity Aquifer. Contract ends 2010.
Fort Worth	Keller	Keller		Tarrant	Trinity	MUN	298900	460200	30461000	C	461	315	220	8	3,468	4,826	0	0	0	0	0	Projected demands. Contract ends 2000.
Fort Worth	Lake Worth Village	Lake Worth Village		Tarrant	Trinity	MUN	298900	482975	30501000	C	501	341	220	8	579	606	686	0	0	0	0	Obtains 112 AF/Y from Trinity Aquifer. Contract expires in 2010.
Fort Worth	North Richland Hills	North Richland Hills		Tarrant	Trinity	MUN	298900	609850	30642000	C	642	435	220	8	3,831	5,060	5,663	0	0	0	0	Projected demands. Contract expires in 2010.
Fort Worth	Richland Hills	Richland Hills		Tarrant	Trinity	MUN	298900	725800	30748000	C	748	499	220	8	601	1,135	1,324	0	0	0	0	Obtains 199 AF/Y from Trinity Aquifer. Contract expires in 2010.
Fort Worth	Saginaw	Saginaw		Tarrant	Trinity	MUN	298900	761200	30785000	C	785	527	220	8	1,451	2,059	2,495	0	0	0	0	Projected demands. Contract expires in 2010.
Fort Worth	Sansom Park Village	Sansom Park Village		Tarrant	Trinity	MUN	298900	771400	30802000	C	802	539	220	8	504	525	524	0	0	0	0	Obtains 33 AF/Y from Trinity Aquifer. Contract expires in 2010.
Fort Worth	Southlake	Southlake	P	Tarrant	Trinity	MUN	298900	807500	30846000	C	846	570	220	8	4,035	6,209	0	0	0	0	0	Projected demands. Contract expires in 2002.
Fort Worth	Watauga	Watauga		Tarrant	Trinity	MUN	298900	919353	30942000	C	942	632	220	8	3,203	3,835	4,106	0	0	0	0	Projected demands. Contract expires in 2010.
Fort Worth	Westworth Village	Westworth Village		Tarrant	Trinity	MUN	298900	938310	30959000	C	959	644	220	8	181	324	323	0	0	0	0	Projected demands. Contract expires in 2010.
Fort Worth	White Settlement	White Settlement		Tarrant	Trinity	MUN	298900	943200	30964000	C	964	651	220	8	869	2,082	2,028	0	0	0	0	Obtains 205 AF/Y from Trinity Aquifer. Contract expires in 2010.
Fort Worth	County Other	County Other		Denton	Trinity	MUN	298900		30996061	C	996	757	61	8	227	453	582	0	0	0	0	FW provides part of Denton County Other. Contracts expire in 2010.
Fort Worth	County Other	County Other		Tarrant	Trinity	MUN	298900		30996220	C	996	757	220	8	4,000	2,223	5,555	0	0	0	0	FW provides part of Tarrant County Other. Contracts expire in 2010.
Fort Worth	Manufacturing	Manufacturing		Tarrant	Trinity	MFG	298900		31001220	C	1001	1001	220	8		7,124	11,580	12,401	16,824	20,698	25,385	FW provides part of Tarrant County Manufacturing. Percentage decreases in 2020 due to contract expirations.

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																2000	2010	2020	2030	2040	2050	
Fort Worth Subtotal*																***186,845***	***194,552***	***158,745***	***164,167***	***174,366***	***184,859***	***Included in TRWD numbers above.***
Trinity River Authority	*Bedford*	*Bedford*		*Tarrant*	*Trinity*	*MUN*	*171*	*62550*	*30067000*	*C*	*67*	*44*	*220*	*8*	*7,988*	*9,295*	*10,043*	*9,985*	*9,733*	*9,481*	*9,292*	*Also uses 654 AF/Y Trinity Aquifer. Included in TRWD numbers above.*
Trinity River Authority	*Colleyville*	*Colleyville*		*Tarrant*	*Trinity*	*MUN*	*171*	*165510*	*30186000*	*C*	*186*	*125*	*220*	*8*	*4,753*	*5,979*	*8,889*	*11,265*	*11,598*	*11,746*	*11,938*	*Also uses 198 AF/Y from Trinity Aquifer. Included in TRWD numbers above.*
Trinity River Authority	*Euless*	*Euless*		*Tarrant*	*Trinity*	*MUN*	*171*	*270450*	*30285000*	*C*	*285*	*193*	*220*	*8*	*6,585*	*7,873*	*7,555*	*9,601*	*9,338*	*9,140*	*8,942*	*Also gets 550 AF/Y from Trinity Aquifer. Included in TRWD numbers above.*
Trinity River Authority	*Grapevine*	*Grapevine*		*Tarrant*	*Trinity*	*MUN*	*171*	*340200*	*30360000*	*C*	*360*	*249*	*220*	*8*	*6,179*	*6,769*	*8,514*	*9,510*	*9,870*	*10,031*	*10,188*	*TRA serves Tarrant County portion only, less Lake Grapevine supply. Included in TRWD numbers above.*
Trinity River Authority	*North Richland Hills*	*North Richland Hills*		*Tarrant*	*Trinity*	*MUN*	*171*	*609850*	*30642000*	*C*	*642*	*435*	*220*	*8*	*3,831*	*5,054*	*5,670*	*6,405*	*6,574*	*6,697*	*6,919*	*Projected demands. Included in TRWD numbers above.*
Trinity River Authority	Ennis	Ennis		Ellis	Trinity	MUN	171	268600	30284000	C	284	192	70	8	2,144	5,280	8,976	8,976	8,976	8,976	8,976	Contract 5280 AF/Y. Beginning in 2010, 3,696 permitted reuse.
Trinity River Authority	Waxahachie	Waxahachie		Ellis	Trinity	MUN	171	920800	30943000	C	943	633	70	8	2,418	9,449	9,449	9,449	9,449	9,449	9,449	Contract 9449 AF/Y.
Trinity River Authority	*Waxahachie*	*Waxahachie*		*Ellis*	*Trinity*	*MUN*	*171*	*920800*	*30943000*	*C*	*943*	*633*	*70*	*8*		*0*	*5,209*	*5,209*	*5,209*	*5,209*	*5,209*	*Beginning in 2010, 1991 Ellis County Contract amount of 4.65 MGD (through Ellis Co WCID #1) using TRWD pipelines. Facilities not in place. Included in TRWD above.*
Trinity River Authority	Waxahachie	Waxahachie		Ellis	Trinity	MUN	171	920800	30943000	C	943	633	70	8		3,400	3,800	3,900	4,400	4,900	5,129	Waxahachie contract for reuse.
Trinity River Authority	Ferris	Ferris		Ellis	Trinity	MUN	171	285600	30296000	C	296	201	70	8	132	107	185	274	365	375	386	Through Rockett SUD. Projected demands minus 196 AF/Y groundwater.
Trinity River Authority	*Ferris*	*Ferris*		*Ellis*	*Trinity*	*MUN*	*171*	*285600*	*30296000*	*C*	*296*	*201*	*70*	*8*		*0*	*807*	*807*	*807*	*807*	*807*	*Beginning in 2010, contract for .72 MGD due to 1991 Ellis County Contract using TRWD pipelines. Included in TRWD above.*
Trinity River Authority	*Italy*	*Italy*		*Ellis*	*Trinity*	*MUN*	*171*	*426200*	*30438000*	*C*	*438*	*299*	*70*	*8*		*0*	*561*	*561*	*561*	*561*	*561*	*Contract for 0.5 MGD beginning in 2010 based on 1993 Ellis County Contract using TRWD pipelines. Facilities not in place. Included in TRWD above. Also uses groundwater.*

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																2000	2010	2020	2030	2040	2050	
Trinity River Authority	*Maypearl*	*Maypearl*		*Ellis*	*Trinity*	*MUN*	*171*	*545400*	*30573000*	*C*	*573*	*911*	*70*	*8*		*0*	*415*	*415*	*415*	*415*	*415*	*Contract for 0.37 MGD in 1991 Ellis County Contract using TRWD pipelines. Facilities not in place. Included in TRWD above. Also uses groundwater.*
Trinity River Authority	*Midlothian*	*Midlothian*		*Ellis*	*Trinity*	*MUN*	*171*	*566200*	*30596000*	*C*	*596*	*405*	*70*	*8*		*0*	*370*	*370*	*370*	*370*	*370*	*Beginning in 2010, 0.33 MGD added to existing contract due to 1991 Ellis County Contract using TRWD pipelines. Included in TRWD above. City of Midlothian*
Trinity River Authority	*Palmer*	*Palmer*		*Ellis*	*Trinity*	*MUN*	*171*	*641400*	*30671000*	*C*	*671*	*731*	*70*	*8*		*0*	*304*	*304*	*304*	*304*	*304*	*Contract for 0.271 MGD in 1991 Ellis County Contract using TRWD pipelines. Facilities not in place. Included in TRWD above.*
Trinity River Authority	Red Oak	Red Oak		Ellis	Trinity	MUN	171	721000	30739000	C	739	737	70	8	246	462	671	887	1,089	1,181	1,303	Portion of City served through Rockett SUD (approximately 50%). Projected demands minus 223 AF/Y groundwater.
Trinity River Authority	*Red Oak*	*Red Oak*		*Ellis*	*Trinity*	*MUN*	*171*	*721000*	*30739000*	*C*	*739*	*737*	*70*	*8*		*0*	*2,018*	*2,018*	*2,018*	*2,018*	*2,018*	*Through Rockett SUD. In 2000, projected demands minus 223 AF/Y groundwater. Beginning in 2010, 1.8 MGD contracted in 1991 Ellis County Contract using TRWD pipelines. Included in TRWD above.*
Trinity River Authority	Cedar Hill	Cedar Hill	P	Dallas	Trinity	MUN	171	141000	30151000	C	151	102	57	8		0	7,273	7,273	7,273	7,273	7,273	Total contract for Cedar Hill is 7346 AF/Y, but facilities not in place.
Trinity River Authority	Cedar Hill	Cedar Hill	P	Ellis	Trinity	MUN	171	141000	30151000	C	151	102	70	8		0	73	73	73	73	73	Total contract for Cedar Hill is 7346 AF/Y, but facilities not in place.
Trinity River Authority	Duncanville	Duncanville		Dallas	Trinity	MUN	171	242000	30256000	C	256	171	57	8		0	1,197	1,197	1,197	1,197	1,197	Contract 1197 AF/Y, but facilities not in place.
Trinity River Authority	Grand Prairie	Grand Prairie		Dallas	Trinity	MUN	171	336200	30353000	C	353	245	57	8		168	2,916	2,916	2,916	2,916	2,916	Contract 1795 AF/Y and 1121 AF/Y. Can only pump 168 in 2000 due to facility constraints.
Trinity River Authority	Midlothian	Midlothian		Ellis	Trinity	MUN	171	566200	30596000	C	596	405	70	8	1,040	6,107	5,820	5,515	5,222	5,120	4,987	Midlothian WD contract 6662 AF/Y. Sells water to Rockett SUD (Ferris and Red Oak).
Trinity River Authority	Corsicana	Corsicana		Navarro	Trinity	MUN	171	186300	30207000	C	207	137	175	8	5,164	15,794	15,654	15,550	15,444	15,308	15,174	Contract for 17,460 AF/Y.
Trinity River Authority	Dawson	Dawson		Navarro	Trinity	MUN	171	215800	30230000	C	230	855	175	8	163	368	368	368	368	368	368	Contract 368 AF/Y.

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																2000	2010	2020	2030	2040	2050	
Trinity River Authority	County Other	County Other		Ellis	Trinity	MUN	171		30996070	C	996	757	70	8	2,630	1,690	2,672	3,346	4,248	4,544	4,349	TRA provides part of Ellis County Other.
Trinity River Authority	*County Other*	*County Other*		*Ellis*	*Trinity*	*MUN*	*171*		*30996070*	*C*	*996*	*757*	*70*	*8*		0	672	672	672	672	672	Beginning in 2010, 672 AF/Y contracted to Avalon Water and Sewer Service Corp based on 1991 Ellis County Contract using TRWD pipelines. Included in TRWD above.
Trinity River Authority	*County Other*	*County Other*		*Ellis*	*Trinity*	*MUN*	*171*		*30996070*	*C*	*996*	*757*	*70*	*8*		0	952	952	952	952	952	Beginning in 2010, 952 AF/Y contracted to Buena Vista-Bethel WSC based on 1991 Ellis County Contract using TRWD pipelines. Included in TRWD above.
Trinity River Authority	*County Other*	*County Other*		*Ellis*	*Trinity*	*MUN*	*171*		*30996070*	*C*	*996*	*757*	*70*	*8*		0	280	280	280	280	280	Beginning in 2010, 280 AF/Y contracted to Nash-Forreston WSC based on 1991 Ellis County Contract using TRWD pipelines. Included in TRWD above.
Trinity River Authority	*County Other*	*County Other*		*Ellis*	*Trinity*	*MUN*	*171*		*30996070*	*C*	*996*	*757*	*70*	*8*		*0*	*6,777*	*6,777*	*6,777*	*6,777*	*6,777*	*Beginning in 2010, 6777 AF/Y contract to Rockett SUD based on 1991 Ellis County Contract using TRWD pipelines. Included in TRWD above.*
Trinity River Authority	County Other	County Other		Navarro	Trinity	MUN	171		*30996175*	C	996	757	175	8		1,058	1,128	1,180	1,233	1,301	1,368	TRA supplies part of Navarro County Other through Corsicana.
Trinity River Authority	*County Other*	*County Other*		*Tarrant*	*Trinity*	*MUN*	*171*		*30996220*	*C*	*996*	*757*	*220*	*8*	*1,120*	*1,278*	*1,697*	*2,248*	*2,709*	*3,884*	*3,342*	*TRA provides part of Tarrant County Other. Through Colleyville, Grapevine, & North Richland Hills municipal sales.*
Trinity River Authority	Manufacturing	Manufacturing		Ellis	Trinity	MFG	171		31001070	C	1001	1001	70	8	312	392	650	891	1,446	1,685	1,922	TRA provides part of Ellis County Manufacturing
Trinity River Authority	Manufacturing	Manufacturing		Navarro	Trinity	MFG	171		31001175	C	1001	1001	175	8		1,058	1,128	1,180	1,233	1,301	1,368	Contract 450 AF/Y for Texas Industries. Also, mfg sales through Corsicana.
Trinity River Authority	*Manufacturing*	*Manufacturing*		*Tarrant*	*Trinity*	*MFG*	*171*		*31001220*	*C*	*1001*	*1001*	*220*	*8*		*238*	*356*	*477*	*568*	*610*	*673*	*TRA provides part of Tarrant County Manufacturing. Included in TRWD above.*

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																2000	**2010**	**2020**	**2030**	**2040**	**2050**	
Trinity River Authority	Steam Electric Power	Steam Electric Power		Freestone	Trinity	PWR	171		31002081	C	1002	1002	81	8		16,000	16,000	16,000	16,000	16,000	16,000	Diversion from Lake Livingston.
Trinity River Authority	Irrigation	Irrigation		Dallas	Trinity	IRR	171		31004057	C	1004	1004	57	8		8,000	8,000	8,000	8,000	8,000	8,000	Contract for reuse.
TRA Total																**105,819**	**147,049**	**154,831**	**157,687**	**159,921**	**159,897**	
North Texas Municipal Water District	Allen	Allen		Collin	Trinity	MUN	160	13000	30012000	C	12	8	43	8	5,857	10,350	23,299	30,125	33,026	33,478	33,921	Projected demands.
North Texas Municipal Water District	Fairview	Fairview		Collin	Trinity	MUN	160	277800	30291000	C	291	772	43	8	670	776	1,191	1,304	1,468	1,603	1,831	Projected demands.
North Texas Municipal Water District	Farmersville	Farmersville		Collin	Trinity	MUN	160	280825	30294000	C	294	199	43	8	329	568	663	849	978	1,089	1,212	Projected demands.
North Texas Municipal Water District	Frisco	Frisco	P	Collin	Trinity	MUN	160	307200	30319000	C	319	221	43	8	3,470	9,829	20,388	32,596	49,187	67,838	85,005	Projected demands.
North Texas Municipal Water District	Garland	Garland	P	Collin	Trinity	MUN	160	318600	30334000	C	334	230	43	8	43	4	4	5	6	6	8	Projected demands.
North Texas Municipal Water District	Lucas	Lucas		Collin	Trinity	MUN	160	519215	30547000	C	547	718	43	8	394	717	944	1,007	1,228	1,384	1,560	Projected demands.
North Texas Municipal Water District	Mckinney	Mckinney		Collin	Trinity	MUN	160	548600	30577000	C	577	379	43	8	6,697	15,402	33,044	47,264	61,081	74,178	86,631	Projected demands.
North Texas Municipal Water District	Melissa	Melissa		Collin	Trinity	MUN	160	554200	30584000	C	584	914	43	8	64	47	108	122	143	142	143	Through North Collin WSC. Projected demands minus 60 AF/Y groundwater.
North Texas Municipal Water District	Murphy	Murphy		Collin	Trinity	MUN	160	587650	30619000	C	619	724	43	8	381	753	1,885	2,685	3,108	3,443	3,791	Projected demands.
North Texas Municipal Water District	New Hope	New Hope		Collin	Trinity	MUN	160	602900	30631000	C	631	923	43	8	75	95	92	90	90	91	94	Through North Collin WSC.
North Texas Municipal Water District	Parker	Parker		Collin	Trinity	MUN	160	653870	30679000	C	679	733	43	8	302	770	1,983	3,516	5,767	8,332	10,816	Projected demands.
North Texas Municipal Water District	Plano	Plano	P	Collin	Trinity	MUN	160	685400	30704000	C	704	472	43	8	45,945	67,887	84,091	81,927	80,382	79,763	79,763	Projected demands.
North Texas Municipal Water District	Princeton	Princeton		Collin	Trinity	MUN	160	701400	30724000	C	724	487	43	8	343	433	665	924	1,050	1,129	1,176	Projected demands.
North Texas Municipal Water District	Richardson	Richardson	P	Collin	Trinity	MUN	160	724200	30747000	C	747	498	43	8	3,571	3,643	3,887	4,174	4,507	4,821	5,196	Projected demands.
North Texas Municipal Water District	Royse City	Royse City	P	Collin	Sabine	MUN	160	750700	30779000	C	779	522	43	5	40	61	91	123	146	168	194	Projected demands.

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																2000	2010	2020	2030	2040	2050	
North Texas Municipal Water District	Sachse	Sachse	P	Collin	Trinity	MUN	160	759750	30784000	C	784	742	43	8	44	54	97	112	125	144	164	Projected demands.
North Texas Municipal Water District	Sunnyvale	Sunnyvale		Dallas	Trinity	MUN	160	830155	30871000	C	871	749	57	8	602	837	1,715	2,191	2,277	2,301	2,320	Projected demands.
North Texas Municipal Water District	Wylie	Wylie	P	Collin	Trinity	MUN	160	957600	30991000	C	991	669	43	8	1,658	2,273	3,164	4,435	6,440	8,797	10,993	Projected demands.
North Texas Municipal Water District	Garland	Garland	P	Dallas	Trinity	MUN	160	318600	30334000	C	334	230	57	8	31,994	37,053	37,011	37,106	37,105	37,103	37,101	Projected demands.
North Texas Municipal Water District	Mesquite	Mesquite		Dallas	Trinity	MUN	160	562200	30592000	C	592	401	57	8	18,302	21,762	25,513	29,505	33,402	37,141	36,465	Projected demands.
North Texas Municipal Water District	Richardson	Richardson	P	Dallas	Trinity	MUN	160	724200	30747000	C	747	498	57	8	20,065	23,649	26,054	27,112	27,717	28,165	28,824	Projected demands.
North Texas Municipal Water District	Rowlett	Rowlett	P	Dallas	Trinity	MUN	160	749000	30777000	C	777	521	57	8	4,544	7,472	9,085	10,712	12,160	12,912	14,053	Projected demands.
North Texas Municipal Water District	Sachse	Sachse	P	Dallas	Trinity	MUN	160	759750	30784000	C	784	742	57	8	945	1,709	3,287	3,715	4,226	4,639	4,955	Projected demands.
North Texas Municipal Water District	Frisco	Frisco	P	Denton	Trinity	MUN	160	307200	30319000	C	319	221	61	8	179	182	465	526	631	677	728	Projected demands.
North Tex as Municipal Water District	Plano	Plano	P	Denton	Trinity	MUN	160	685400	30704000	C	704	472	61	8	238	17	24	30	38	44	51	Projected demands.
North Texas Municipal Water District	Crandall	Crandall		Kaufman	Trinity	MUN	160	189000	30210000	C	210	767	129	8	355	399	543	625	744	817	898	Through Kaufman 4:1.
North Texas Municipal Water District	Forney	Forney		Kaufman	Trinity	MUN	160	293600	30304000	C	304	207	129	8	706	1,042	2,128	3,276	4,493	5,896	7,331	Projected demands.
North Texas Municipal Water District	Kaufman	Kaufman		Kaufman	Trinity	MUN	160	458650	30459000	C	459	313	129	8	540	1,014	1,255	1,477	1,653	1,758	1,855	Projected demands.
North Texas Municipal Water District	Oak Grove	Oak Grove		Kaufman	Trinity	MUN	160	466700	30646000	C	646	928	129	8	68	107	114	119	121	122	120	Through Kaufman.
North Texas Municipal Water District	Heath	Heath		Rockwall	Trinity	MUN	160	377274	30388000	C	388	702	199	8	537	750	1,026	1,394	1,845	2,353	3,000	Through RCH WSC.
North Texas Municipal Water District	Rockwall	Rockwall		Rockwall	Trinity	MUN	160	739400	30766000	C	766	513	199	8	2,921	4,016	8,643	12,677	16,235	20,428	24,426	Projected demands.
North Texas Municipal Water District	Rowlett	Rowlett	P	Rockwall	Trinity	MUN	160	749000	30777000	C	777	521	199	8	775	1,326	2,363	3,234	4,382	5,779	7,621	Projected demands.
North Texas Municipal Water District	Royse City	Royse City	P	Rockwall	Sabine	MUN	160	750700	30779000	C	779	522	199	5	433	706	1,485	2,015	4,309	5,045	5,764	Projected demands.
North Texas Municipal Water District	Wylie	Wylie	P	Rockwall	Trinity	MUN	160	957600	30991000	C	991	669	199	8	13	11	10	11	11	12	13	Projected demands.

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																2000	2010	2020	2030	2040	2050	
North Texas Municipal Water District	County Other	County Other		Collin	Sabine	MUN	160		30996043	C	996	757	43	5		0	0	1,090	1,564	2,000	1,875	NTMWD provides Collin County Other demands not met by groundwater
North Texas Municipal Water District	County Other	County Other		Collin	Trinity	MUN	160		30996043	C	996	757	43	8		0	0	20,568	27,181	33,358	30,983	NTMWD provides Collin County Other demands not met by groundw ater
North Texas Municipal Water District	County Other	County Other		Dallas	Trinity	MUN	160		30996057	C	996	757	57	8		2	2	1	1	1	0	NTMWD provides some water to Dallas County Other.
North Texas Municipal Water District	County Other	County Other		Kaufman	Sabine	MUN	160		30996129	C	996	757	129	5		46	76	113	145	166	173	NTMWD provides 57% of Kaufman County Other projected demands in Sabine Basin.
North Texas Municipal Water District	County Other	County Other		Kaufman	Trinity	MUN	160		30996129	C	996	757	129	8		3,767	3,633	4,213	4,745	5,063	5,137	NTMWD provides 76% of Kaufman County Other projected demands in Trinity Basin.
North Texas Municipal Water District	County Other	County Other		Rockwall	Sabine	MUN	160		30996199	C	996	757	199	5		420	0	0	0	110	438	NTMWD provides 100% of Rockwall County Other
North Texas Municipal Water District	County Other	County Other		Rockwall	Trinity	MUN	160		30996199	C	996	757	199	8		1,912	420	432	90	1,236	2,623	NTMWD provides 100% of Rockwall County Other less 183 AF/Y GW
North Tex as Municipal Water District	Manufacturing	Manufacturing		Collin	Sabine	MFG	160		31001043	C	1001	1001	43	5		0	0	0	0	0	0	NTMWD provides 100% of Collin County Manufacturing
North Texas Municipal Water District	Manufacturing	Manufacturing		Collin	Trinity	MFG	160		31001043	C	1001	1001	43	8		2,742	2,462	2,748	3,030	3,449	3,895	NTMWD provides 100% of Collin County Manufacturing
North Texas Municipal Water District	Manufacturing	Manufacturing		Dallas	Trinity	MFG	160		31001057	C	1001	1001	57	8	5,290	7,372	7,527	6,080	5,685	6,170	7,012	NTMWD provides 19% of Dallas County Manufacturing.
North Texas Municipal Water District	Manufacturing	Manufacturing		Kaufman	Sabine	MFG	160		31001129	C	1001	1001	129	5		0	0	0	0	0	0	No water demands exist for Kaufman County Manufacturing in the Sabine Basin.
North Texas Municipal Water District	Manufacturing	Manufacturing		Kaufman	Trinity	MFG	160		31001129	C	1001	1001	129	8		302	236	235	239	251	268	NTMWD provides 76% of Kaufman County Manufacturing in Trinity Basin.
North Texas Municipal Water District	Manufacturing	Manufacturing		Rockwall	Sabine	MFG	160		31001199	C	1001	1001	199	5		0	0	0	0	0	0	No water demands exist for Rockwall County Manufacturing in Sabine Basin.
North Texas Municipal Water District	Manufacturing	Manufacturing		Rockwall	Trinity	MFG	160		31001199	C	1001	1001	199	8		5	6	6	6	6	6	NTMWD provides 100% of Rockwall County Manufacturing in the Trinity Basin.
North Texas Municipal Water District	Steam Electric Power	Steam Electric Power		Collin	Trinity	PWR	160		31002043	C	1002	1002	43	8		4,000	4,000	4,000	4,000	4,000	4,000	Ray Olinger Power Plant (Garland)

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																2000	**2010**	**2020**	**2030**	**2040**	**2050**	
North Texas Municipal Water District	Steam Electric Power	Steam Electric Power		Dallas	Trinity	PWR	160		31002057	C	1002	1002	57	8	163	208	200	257	231	212	296	NTMWD provides 1% Dallas County power.
NTMWD Total																**236,490**	**314,879**	**386,726**	**446,998**	**507,620**	**554,729**	
Dallas	Dallas	Dallas	P	Collin	Trinity	MUN	206800	206800	30227000	C	227	151	43	8	8,367	8,352	9,394	10,575	11,353	12,270	13,258	Projected demands.
Dallas	Addison	Addison		Dallas	Trinity	MUN	206800	9000	30003000	C	3	673	57	8	5,447	7,170	9,764	0	0	0	0	Contract expires in 2012
Dallas	Carrollton	Carrollton	P	Dallas	Trinity	MUN	206800	136200	30147000	C	147	98	57	8	8,387	12,457	13,513	0	0	0	0	Also uses 77 AF/Y from Trinity Aquifer. Contract expires in 2013.
Dallas	Cedar Hill	Cedar Hill	P	Dallas	Trinity	MUN	206800	141000	30151000	C	151	102	57	8	3,340	5,438	8,707	0	0	0	0	Also gets 389 AF/Y from Trinity and Woodbine Aquifers. Contract expires in 2014.
Dallas	Cockrell Hill	Cockrell Hill		Dallas	Trinity	MUN	206800	164650	30182000	C	182	121	57	8	493	660	668	0	0	0	0	Contract expires in 2014.
Dallas	Coppell	Coppell		Dallas	Trinity	MUN	206800	184200	30201000	C	201	133	57	8	5,673	8,197	0	0	0	0	0	Contract expires in 2003.
Dallas	Dallas	Dallas	P	Dallas	Trinity	MUN	206800	206800	30227000	C	227	151	57	8	260,026	299,587	327,135	337,064	343,528	351,157	358,390	Projected demands.
Dallas	De Soto	De Soto		Dallas	Trinity	MUN	206800	225200	30234000	C	234	161	57	8	6,946	8,128	11,134	0	0	0	0	Also gets 74 AF/Y from Trinity Aquifer. Contract expires in 2013.
Dallas	Duncanville	Duncanville		Dallas	Trinity	MUN	206800	242000	30256000	C	256	171	57	8	6,415	7,400	8,522	0	0	0	0	Contract expires in 2014.
Dallas	Farmers Branch	Farmers Branch		Dallas	Trinity	MUN	206800	280800	30293000	C	293	198	57	8	8,885	10,966	11,644	0	0	0	0	Contract expires in 2010.
Dallas	Glenn Heights	Glenn Heights	P	Dallas	Trinity	MUN	206800	328575	30344000	C	344	697	57	8	142	639	800	954	0	0	0	Also gets 309 AF/Y from Woodbine Aquifer. Contract expires in 2022.
Dallas	Grand Prairie	Grand Prairie	P	Dallas	Trinity	MUN	206800	336200	30353000	C	353	245	57	8	11,277	13,728	14,467	0	0	0	0	Also uses groundwater and TRA surface supply. Contract expires in 2012.
Dallas	Hutchins	Hutchins		Dallas	Trinity	MUN	206800	412400	30429000	C	429	294	57	8	662	694	932	0	0	0	0	Contract expires in 2012.
Dallas	Irving	Irving		Dallas	Trinity	MUN	206800	425400	30437000	C	437	298	57	8	39,554	43,869	5,600	8,494	0	0	0	Contract drops to minimum of 5600 AF/Y in 2003 when Chapman connection is completed. Contract expires in 2030.
Dallas	Lancaster	Lancaster		Dallas	Trinity	MUN	206800	484400	30509000	C	509	345	57	8	3,224	4,086	4,647	0	0	0	0	Also gets 220 AF/Y from Trinity Aquifer. Contract expires in 2011.
Dallas	Lewisville	Lewisville	P	Dallas	Trinity	MUN	206800	493200	30519000	C	519	355	57	8	161	181	252	0	0	0	0	DWU responsible for 23 MGD and UTRWD responsible for remaining demand. Contract expires in 2016.
Dallas	Seagoville	Seagoville		Dallas	Trinity	MUN	206800	780200	30812000	C	812	547	57	8	1,209	1,774	2,891	0	0	0	0	Contract expires in 2013.
Dallas	Carrollton	Carrollton	P	Denton	Trinity	MUN	206800	136200	30147000	C	147	98	61	8	9,609	10,836	12,485	0	0	0	0	Also uses 62 AF/Y from Trinity Aquifer. Contract expires in 2013.

A	B	C		D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
Major Water Provider Name	Name of Recipient of Water	Recipient's City Name	Partial	Recipient's County Name	Recipient's Basin Name	Recipient's Data Category	Major Water Provider Number (TWDB Alpha Number)	Recipient of Water from the Major Water Provider (TWDB Alpha Number)	Recipient's Water User Group Identifier	Recipient's Regional Water Planning Group Letter	Recipient's Sequence Number	Recipient's City Number	Recipient's County Number	Recipient's Basin Number	1996	Projected Demands						Comments
																2000	2010	2020	2030	2040	2050	
Dallas	Dallas	Dallas	P	Denton	Trinity	MUN	206800	206800	30227000	C	227	151	61	8	5,002	5,305	6,083	6,732	7,679	8,551	9,520	Projected demands.
Dallas	Denton	Denton		Denton	Trinity	MUN	206800	222800	30240000	C	240	159	61	8	700	809	970	0	0	0	0	2000-2010 5% of demand.
Dallas	Flower Mound	Flower Mound		Denton	Trinity	MUN	206800	289800	30301000	C	301	204	61	8	3,166	5,108	5,605	0	0	0	0	DWU responsible for 5 MGD and UTRWD responsible for remaining demand. Contract expires in 2017.
Dallas	Lewisville	Lewisville	P	Denton	Trinity	MUN	206800	493200	30519000	C	519	355	61	8	10,509	18,128	25,531	0	0	0	0	DWU responsible for 23 MGD and UTRWD responsible for remaining demand. Contract expires in 2016.
Dallas	The Colony	The Colony		Denton	Trinity	MUN	206800	166810	30891000	C	891	752	61	8	2,411	2,801	5,629	0	0	0	0	Also gets 603 AF/Y from Trinity Aquifer. Contract expires in 2010.
Dallas	Cedar Hill	Cedar Hill	P	Ellis	Trinity	MUN	206800	141000	30151000	C	151	102	70	8	113	13	23	0	0	0	0	Contract expires in 2014.
Dallas	Glenn Heights	Glenn Heights	P	Ellis	Trinity	MUN	206800	328575	30344000	C	344	697	70	8	94	149	188	220	0	0	0	Also gets 13 AF/Y from Woodbine Aquifer. Contract expires in 2022.
Dallas	Grand Prairie	Grand Prairie	P	Ellis	Trinity	MUN	206800	336200	30353000	C	353	245	70	8	1	12	21	0	0	0	0	Contract expires in 2012.
Dallas	Dallas	Dallas	P	Kaufman	Trinity	MUN	206800	206800	30227000	C	227	151	129	8	3	2	2	2	2	2	2	Projected demands.
Dallas	Dallas	Dallas	P	Rockwall	Trinity	MUN	206800	206800	30227000	C	227	151	199	8	13	13	16	20	26	32	39	Projected demands.
Dallas	Grand Prairie	Grand Prairie	P	Tarrant	Trinity	MUN	206800	336200	30353000	C	353	245	220	8	2,062	3,595	5,493	0	0	0	0	Also uses groundwater and Fort Worth surface supply. Contract expires in 2012.
Dallas	Ovilla	Ovilla	P	Dallas	Trinity	MUN	206800	632000	30663000	C	663	729	57	8	60	75	86	0	0	0	0	Through Cedar Hill. Contract expires in 2014.
Dallas	Ovilla	Ovilla	P	Ellis	Trinity	MUN	206800	632000	30663000	C	663	729	70	8	400	669	783	0	0	0	0	Through Cedar Hill. Contract expires in 2014.
Dallas	Balch Springs	Balch Springs		Dallas	Trinity	MUN	206800	50400	30049000	C	49	33	57	8	2,110	2,540	3,274	0	0	0	0	Through Dallas Co. WCID #6. Contract expires in 2015.
Dallas	Combine	Combine	P	Dallas	Trinity	MUN	206800	174700	30193000	C	193	766	57	8	51	82	96	111	124	128	136	Through Combine WSC
Dallas	Combine	Combine	P	Kaufman	Trinity	MUN	206800	174700	30193000	C	193	766	129	8	105	256	333	384	415	434	454	Through Combine WSC
Dallas	Oak Leaf	Oak Leaf		Ellis	Trinity	MUN	206800	618021	30647000	C	647	929	70	8	170	168	190	224	0	0	0	Through Glenn Heights. Contract expires in 2022.
Dallas	Aubrey	Aubrey		Denton	Trinity	MUN	206800	40600	30043000	C	43	758	61	8	61	80	189	345	0	0	0	(**) Through UTRWD. Demands not met by groundwater and UTRWD Lake Chapman. UTRWD contract expires in 2022.

A	B	C		D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
Major Water Provider Name	Name of Recipient of Water	Recipient's City Name	Partial	Recipient's County Name	Recipient's Basin Name	Recipient's Data Category	Major Water Provider Number (TWDB Alpha Number)	Recipient of Water from the Major Water Provider (TWDB Alpha Number)	Recipient's Water User Group Identifier	Recipient's Regional Water Planning Group Letter	Recipient's Sequence Number	Recipient's City Number	Recipient's County Number	Recipient's Basin Number	1996	Projected Demands						Comments
																2000	2010	2020	2030	2040	2050	
Dallas	Argyle	Argyle		Denton	Trinity	MUN	206800	33950	30036000	C	36	677	61	8	348	389	1,653	3,206	0	0	0	Through UTRWD (**). Demands not met by groundwater and UTRWD Lake Chapman. UTRWD contract expires in 2022.
Dallas	Bartonville	Bartonville		Denton	Trinity	MUN	206800	57100	30058000	C	58	820	61	8	87	267	1,195	1,709	0	0	0	(**) Through UTRWD (**). Demands not met by groundwater and UTRWD Lake Chapman. UTRWD contract expires in 2022.
Dallas	Copper Canyon	Copper Canyon		Denton	Trinity	MUN	206800	183861	30202000	C	202	849	61	8	149	267	742	1,216	0	0	0	(**) Through UTRWD (**). Demands not met by groundwater and UTRWD Lake Chapman. UTRWD contract expires in 2022.
Dallas	Double Oak	Double Oak		Denton	Trinity	MUN	206800	57100	30251000	C	251	768	61	8	236	405	664	787	0	0	0	(**) Through UTRWD (**). Demands not met by groundwater and UTRWD Lake Chapman. UTRWD contract expires in 2022.
Dallas	Corinth	Corinth		Denton	Trinity	MUN	206800	184795	30204000	C	204	691	61	8	774	2,147	4,288	6,194	0	0	0	Through UTRWD. Demands not met by groundwater and UTRWD Lake Chapman. UTRWD contract expires in 2022.
Dallas	Denton	Denton		Denton	Trinity	MUN	206800	222800	30240000	C	240	159	61	8	4	4	2	4	0	0	0	Through UTRWD. Demands not met by UTRWD Lake Chapman. UTRWD Contract expires in 2022.
Dallas	Flower Mound	Flower Mound		Denton	Trinity	MUN	206800	289800	30301000	C	301	204	61	8	3,166	5,108	11,904	18,461	0	0	0	DWU responsible for 5 MGD and UTRWD responsible for remaining demand. Demands not met by UTRWD Lake Chapman. UTRWD contract expires in 2022.
Dallas	Highland Village	Highland Village		Denton	Trinity	MUN	206800	389277	30403000	C	403	706	61	8	1,367	1,951	3,421	3,219	0	0	0	Through UTRWD. Demands not met by groundwater and UTRWD Lake Chapman. UTRWD contract expires in 2022.
Dallas	Lewisville	Lewisville		Denton	Trinity	MUN	206800	493200	30519000	C	519	355	61	8		4	1,369	9,937	0	0	0	DWU responsible for 23 MGD and UTRWD responsible for remaining demand. UTRWD contract expires in 2022.

A	B	C		D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
Major Water Provider Name	Name of Recipient of Water	Recipient's City Name	Partial	Recipient's County Name	Recipient's Basin Name	Recipient's Data Category	Major Water Provider Number (TWDB Alpha Number)	Recipient of Water from the Major Water Provider (TWDB Alpha Number)	Recipient's Water User Group Identifier	Recipient's Regional Water Planning Group Letter	Recipient's Sequence Number	Recipient's City Number	Recipient's County Number	Recipient's Basin Number	1996	Projected Demands						Comments
																2000	2010	2020	2030	2040	2050	
Dallas	Oak Point	Oak Point		Denton	Trinity	MUN	206800	618165	30648000	C	648	930	61	8		124	373	997	0	0	0	(**) Through UTRWD. Demands not met by groundwater. UTRWD contract expires in 2022.
Dallas	Hickory Creek	Hickory Creek		Denton	Trinity	MUN	206800	480400	30399000	C	399	704	61	8	194	250	620	1,093	0	0	0	Through UTRWD (**). Demands not met by groundwater and UTRWD Lake Chapman. UTRWD contract expire sin 2022.
Dallas	Lake Dallas	Lake Dallas		Denton	Trinity	MUN	206800	480400	30498000	C	498	337	61	8	484	778	1,177	1,476	0	0	0	Through UTRWD (**). Demands not met by groundwater and UTRWD Lake Chapman. UTRWD contract expire sin 2022.
Dallas	Shady Shores	Shady Shores		Denton	Trinity	MUN	206800	480400	30820000	C	820	803	61	8	98	209	387	559	0	0	0	Through UTRWD (**). Demands not met by groundwater and UTRWD Lake Chapman. UTRWD contract expire sin 2022.
Dallas	Lincoln Park	Lincoln Park		Denton	Trinity	MUN	206800	497130	30996061	C	996	757	61	8	0	10	34	86	0	0	0	(**) Through UTRWD. Demands not met by groundwater and UTRWD Lake Chapman. UTRWD contract expires in 2022.
Dallas	Crossroads	Crossroads		Denton	Trinity	MUN	206800	194620	30996061	C	996	757	61	8	0	59	210	655	0	0	0	(**) Through UTRWD (**). Demands not met by UTRWD Lake Chapman. UTRWD contract expires in 2022.
Dallas	County Other	County Other		Dallas	Trinity	MUN	206800		30996057	C	996	757	57	8	2,247	4,184	20,305	20,305	20,305	20,305	20,305	DWU provides 93% Dallas County Other. Assume DWU responsibilities level-off in 2010.
Dallas	County Other	County Other		Denton	Trinity	MUN	206800		30996061	C	996	757	61	8	260	2,775	3,734	12,049	0	0	0	(**) DWU provides 8% Denton County Other through UTRWD. Contract expires in 2022 with UTRWD.
Dallas	Manufacturing	Manufacturing		Dallas	Trinity	MFG	206800		31001057	C	1001	1001	57	8	22,553	27,140	31,530	35,267	38,410	45,475	53,339	DWU provides 81% Dallas County Manufacturing

A	B	C		D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	
Major Water Provider Name	**Name of Recipient of Water**	**Recipient's City Name**	Partial	**Recipient's County Name**	**Recipient's Basin Name**	**Recipient's Data Category**	**Major Water Provider Number (TWDB Alpha Number)**	**Recipient of Water from the Major Water Provider (TWDB Alpha Number)**	**Recipient's Water User Group Identifier**	**Recipient's Regional Water Planning Group Letter**	**Recipient's Sequence Number**	**Recipient's City Number**	**Recipient's County Number**	**Recipient's Basin Number**	**1996**	**Projected Demands**						Comments
																2000	**2010**	**2020**	**2030**	**2040**	**2050**	
Dallas	Manufacturing	Manufacturing		Denton	Trinity	MFG	206800		31001061	C	1001	1001	61	8	896	743	881	969	0	0	0	(**) DWU provides 93% Denton County Manufacturing through UTRWD. Contract expires in 2022.
Dallas	Steam Electric Power	Steam Electric Power		Dallas	Trinity	PWR	206800		31002057	C	1002	1002	57	8		12,850	12,850	9,850	9,850	9,850	300	Contracts with TXU. Contracts expire over the planning period.
DWU Total																**543,631**	**594,406**	**493,164**	**431,692**	**448,204**	**455,743**	

APPENDIX I

TEXAS WATER DEVELOPMENT BOARD TABLE 4
WATER SUPPLY AVAILABLE TO REGION C

APPENDIX I
TEXAS WATER DEVELOPMENT BOARD TABLE 4
WATER SUPPLY AVAILABLE TO REGION C

Texas Water Development Board Table 4 is attached at the end of this appendix. The rest of the appendix summarizes the sources of the data in the table. The table represents the reliable supply currently available to the region. The table is based on:

- Existing water rights
- Firm yields for reservoirs
- Reliable supplies from reservoir systems
- Renewable supplies from groundwater
- Estimated reliable local supplies for irrigation, mining, and livestock
- Existing and permitted reuse projects

Limits to water supply due to current water transmission facilities and wells are not considered in the development of TWDB Table 4. Actual 1996 use in TWDB Table 4 is based on data from the Texas Water Development Board [9] and the Texas Natural Resource Conservation Service [13].

Water Supply Systems

The water supply systems listed are operated as physical systems – the water they provide cannot easily be separated by individual source. The supply available from each system is limited to the current Texas Natural Resource Conservation Commission (TNRCC) water rights or the firm yield, whichever is less. Specific sources of information and more detailed discussions on water supply available for each system are given below.

North Texas Municipal Water District System. The North Texas Municipal Water District system includes four sources – Lake Lavon, Lake Texoma, Chapman Lake in the Sulphur Basin, and permitted reuse of treated wastewater returned to the Lake Lavon

watershed from the Wilson Creek Wastewater Treatment Plant. Table I-1 shows the supply available to the system from each source.

- The supply available from Lavon is taken from previous TWDB analyses [37].
- The supply available from Texoma is from the TNRCC water right, which is based on firm yield for the storage controlled by NTMWD. North Texas Municipal Water District's water right allows a diversion of 84,000 acre-feet per year from Lake Texoma. However, due to channel losses in delivery to Lake Lavon where the water is used, only 77,300 acre-feet per year can be used for water supply in Region C. (Note that supplies for other users from Lake Texoma are included in the section on reservoirs in Region C.)
- The supply available from Chapman is NTMWD's share of the estimated firm yield of the project. The derivation of the firm yield for Lake Chapman is discussed in the section of this appendix on imports. (Note that supplies from Lake Chapman for other Region C users are included in the section on imports.)
- The supply available from reuse is based on the fact that the North Texas Municipal Water District currently has a water right to reuse up to 35,943 acre-feet per year of the discharge from its Wilson Creek wastewater treatment plant upstream from Lake Lavon [12].

Lost Creek/Jacksboro System (Jacksboro). The supply is from the TNRCC permit [12]. HDR's original analysis for the project indicates that this is the yield of the project if releases are made for prior downstream water rights in Lake Bridgeport [14].

West Fork less Bridgeport Local System (Tarrant Regional Water District). The supply is from firm yield studies for the reservoirs conducted by Freese and Nichols for

Table I-1

Supply Available from the North Texas Municipal Water District System by Source

Source	1996 Use/ (Ac-Ft)	Available Supply in Acre-Feet Per Year					
		2000	2010	2020	2030	2040	2050
Lavon	126,063	103,900	102,200	100,600	98,800	97,000	95,200
Texoma	35,284	77,300	77,300	77,300	77,300	77,300	77,300
Chapman	1,256	53,600	53,200	52,800	52,400	52,000	51,600
Reuse	23,345	35,943	35,943	35,943	35,943	35,943	35,943
TOTAL	185,948	270,743	268,643	266,643	264,443	262,243	260,043

this project. Table I-2 shows the firm yield by reservoir. (Note that a part of the yield available from Lake Bridgeport is reserved for use around the lake. This supply is listed separately in the section on reservoirs in Region C and is not available to the system.)

Under current conditions, this system provides somewhat less supply than shown. With existing facilities, it is not possible to divert water from Lake Worth when the lake is drawn down more than four feet, which makes some of the water stored in Lake Worth unavailable. In addition, the Tarrant Regional Water District operates its water supplies on a safe yield basis, which provides a smaller supply than the firm yield numbers shown. (In safe yield operation, the user takes less than the firm yield in order to leave a reserve supply in the reservoir in case a drought worse than any historical drought occurs.) Table I-2 also shows the safe yield available from this system for comparison with the firm yield.

Cedar Creek/Richland-Chambers System (Tarrant Regional Water District). The supply is limited by TNRCC water rights [12] until 2050. (Previous yield studies by Freese and Nichols [39, 40] and HDR [41] indicate that the yield for each reservoir exceeds the water right until 2050.) As of 2050, the estimated firm yield after sedimentation for Richland-Chambers Lake is slightly less than the permitted diversion. Table I-3 shows the supply available from this system by source. Both Cedar Creek Lake and Richland-Chambers Lake have a firm yield in excess of their permit. The unpermitted yield of each lake is discussed in the section on unpermitted yields. (Note that Corsicana also has a diversion from Richland-Chambers Lake. This diversion is included in the section on reservoirs in Region C.)

Ray Hubbard/Tawakoni System (Dallas). Table I-4 gives the supply for this system by source. (Note that the Lake Tawakoni yield in this system is only for Dallas' share of the yield. Terrell's share is included in the section on imports. The remainder of the reservoir's yield is not used in Region C.) The supplies for Lake Ray Hubbard and

Table I-2

Supply Available from the West Fork Less Bridgeport Local System

Source	1996 Use/ (Ac-Ft)	Water Supply Available in Acre-Feet Per Year					
		2000	2010	2020	2030	2040	2050
Bridgeport	--	73,500	73,200	72,900	72,600	72,400	72,200
Reserved for Local Use	--	15,000	15,000	15,000	15,000	15,000	15,000
Bridgeport in System	--	58,500	58,200	57,900	57,600	57,400	57,200
Eagle Mountain	--	27,100	26,400	25,700	25,000	24,200	23,500
Worth	--	1,000	1,000	1,000	1,000	1,000	1,000
Total System (firm yield)	75,350	86,600	85,600	84,600	83,600	82,600	81,700
Safe Yield System Supply*		72,000	70,000	68,000	66,000	64,000	62,000

*Safe yield system supply is based on previous analyses by Freese and Nichols [14]

Table I-3

Supply Available from the Cedar Creek/Richland-Chambers System

Source	1996 Use/ (Ac-Ft)	Water Supply Available in Acre-Feet Per Year					
		2000	2010	2020	2030	2040	2050
Cedar Creek	--	175,000	175,000	175,000	175,000	175,000	175,000
Richland-Chambers	--	210,000	210,000	210,000	210,000	210,000	207,700
Total	162,313	385,000	385,000	385,000	385,000	385,000	382,700

Table I-4

Supply Available from the Ray Hubbard/Tawakoni System

Source	1996 Use/ (Ac-Ft)	Water Supply Available in Acre-Feet Per Year					
		2000	2010	2020	2030	2040	2050
Ray Hubbard	80,535	59,500	59,100	58,700	58,400	58,000	57,600
Tawakoni	119,327	181,800	181,300	180,800	180,200	179,700	179,100
Additional Dry-Year Supply from System Operation		8,925	8,865	8,805	8,760	8,700	8,640
Total	199,862	250,225	249,265	248,305	247,360	246,400	245,340

Lake Tawakoni are based on yield studies conducted by Chiang, Patel, and Yerby [42] for Dallas. (Freese and Nichols' yield studies for Lake Tawakoni in the *Comprehensive Sabine Basin Management Plan* for the Sabine River Authority [43] are consistent with the Chiang, Patel and Yerby yields.) The additional dry-year supply from system operation represents 15% overdraft of Lake Ray Hubbard in the highest use year. This would be compensated by underdrafting Lake Ray Hubbard in other years of an extended drought.

Elm Fork/Lake Grapevine System (Dallas). Table I-5 gives the supplies for this system by source. (Note that the supplies given are only for Dallas' share of each lake. Supplies for other users are given in the section on reservoirs in Region C.) The supplies for Lake Ray Roberts, Lake Lewisville, and the Elm Fork channel dams are based on yield studies for Dallas conducted by Chiang, Patel, and Yerby [42]. Water rights in Lake Grapevine are currently in dispute among Dallas County Park Cities Municipal Utility District Number One, Dallas, and Grapevine. For this study, each user was given the minimum yield proposed for them by any party in the dispute [44]. The remaining firm yield of the reservoir (4,100 acre-feet per year) is not allocated to any specific party. The additional dry-year supply from system operation represents 15 percent overdrafting of Lake Ray Roberts, Lake Lewisville, and Lake Grapevine in the highest use year. This would be compensated by underdrafting these sources in the other years of an extended drought.

Reservoirs in Region C

All major reservoirs in Region C not included in water supply systems are listed, as are some smaller reservoirs used for municipal supply. In general, the supply available is limited to the current Texas Natural Resource Conservation Commission (TNRCC) water right or the firm yield, whichever is less. If the firm yield of the reservoir exceeds the water right, the extra yield is discussed in the section on unpermitted reservoir yield. Specific sources of information on water supply available for each reservoir are discussed below.

Table I-5

Supply Available from the Elm Fork/Lake Grapevine System

Source	1996 Use/ (Ac-Ft)	Water Supply Available in Acre-Feet Per Year					
		2000	2010	2020	2030	2040	2050
Ray Roberts/Lewisville	188,042	164,300	163,100	161,800	160,600	159,300	158,100
Elm Fork Channel Dams	17,957	11,200	11,200	11,200	11,200	11,200	11,200
Lake Grapevine	32,709	6,400	6,400	6,400	6,400	6,400	6,400
Permit		10,000	10,000	0	0	0	0
TXU Industrial Permit		2,915	2,915	2,915	2,915	2,915	2,915
Additional Dry-Tear Supply from System Operation		25,605	25,425	25,230	25,050	24,855	24,675
Total	238,708	220,420	219,040	207,545	206,165	204,670	203,290

Moss. The supply is limited by the water right [12]. Freese and Nichols' 1961 yield study for the reservoir [45] and previous TWDB work show that the firm yield is substantially in excess of 4,500 acre-feet per year, and the excess is discussed in the section on unpermitted reservoir yields.

Muenster. The reservoir is not yet built and thus has no supply. The previous Texas Water Development Board study shows a yield of 500 acre-feet per year once the reservoir is built [37], which matches the TNRCC water right [12].

Texoma (Texas' Share). The supply for each user with a permit in Lake Texoma is based on the user's TNRCC water right [12]. TNRCC water rights are based on firm yield. (North Texas MWD's yield is included in the NTMWD system.) Most of the conservation storage in Lake Texoma is currently dedicated to hydropower generation. As a result, there is considerable unpermitted yield in Lake Texoma, and this unpermitted yield is discussed in the section on unpermitted reservoir yields below.

Randell. The supply is taken from previous TWDB analyses [37].Valley. This reservoir has no reliable supply without diversions from Lake Texoma, which are shown under TXU's Lake Texoma water right.

Bonham. The supply is based on the TNRCC water right [12]. Previous TWDB analyses show a yield greater than the permitted diversion[37]. The firm yield in excess of the water right is discussed in the section on unpermitted reservoir yields.

Coffee Mill. This is a recreation reservoir with no diversion permitted [12].

Kiowa. This is a recreation reservoir with no diversion permitted [12].

Ray Roberts (Denton). The initial supply is from the raw water supply contract between Dallas and Denton [46]. The reduction over time is proportional to the estimated reduction in yield for Dallas' supply in the Lake Ray Roberts/Lewisville system as determined by studies for Dallas by Chiang, Patel, and Yerby [42].

Lewisville (Denton). The initial yield is from the raw water supply contract between Dallas and Denton [46]. The reduction over time is proportional to the estimated reduction in yield for Dallas' supply in the Lake Ray Roberts/Lewisville system as determined by studies for Dallas by Chiang, Patel, and Yerby [42].

Bridgeport Local. The supply is from the TNRCC permit [12]. (This water can be made available downstream if not fully utilized around the lake.)

Benbrook. The supply is limited by the TNRCC water right [12] until 2010. Values after 2010 are based on yield studies by Freese and Nichols [39].

Weatherford. The supply is taken from previous TWDB analyses [37].

Grapevine. Water rights in Lake Grapevine are currently in dispute among Dallas County Park Cities Municipal Utility District Number One, Dallas, and Grapevine. For this study, each user was given the minimum yield proposed for them by any party in the dispute [44]. The remaining firm yield of the reservoir (4,100 acre-feet per year) is not allocated to any specific party. Dallas' share of the yield is included in their Elm Fork/Lake Grapevine system.

Arlington. The year 2000 yield for Lake Arlington is based on analyses by Freese and Nichols. The reduction in yield over time is based on previous TWDB work [37]. As currently operated for terminal storage with a minimum elevation to allow power plant use, Lake Arlington has essentially no reliable supply in a drought year.

Joe Pool. The supply is taken from previous TWDB analyses [37].

Mountain Creek. The supply is taken from previous TWDB analyses [37] and includes the impact of releases from Joe Pool Lake.

North Lake. This reservoir has no reliable supply without purchases from Dallas.

White Rock. The supply is limited to the TNRCC water right for irrigation [12] since the reservoir is currently used only for irrigation purposes.

Terrell. The supply is taken from previous TWDB analyses [37].

Clark. Based on discussions with the City Manager of Ennis, this reservoir (which is not currently used for water supply) is assumed to have no reliable supply in a drought year.

Bardwell. The supply is based on yield studies that incorporate area-capacity data based on the recent Texas Water Development Board sedimentation survey [47]. For the next few years, Bardwell has yield in excess of its water right, and the additional yield is discussed in the section on unpermitted reservoir yield.

Waxahachie. The supply is taken from previous TWDB analyses [37].

Forest Grove. In 1974, Freese and Nichols conducted some analyses for Texas Utilities (predecessor of TXU) that showed an average supply of 3,700 acre-feet per year during the critical period in excess of water purchased from Cedar Creek Lake [72].

Trinidad City Lake. The yield is equal to the permitted diversion under the TNRCC water rights.[12]

Trinidad. The supply is taken from previous TWDB analyses [37] and includes the impact of diversions from the Trinity River into the lake under TXU Electric's water right permit.

Navarro Mills. The supply is limited by the TNRCC water right [12] until 2050. (Previous TWDB analyses [37] show that the yield exceeds the water right until 2050.) The 2050 supply is based on the previous TWDB analyses [37]. The yield in excess of the current water right is discussed in the section on unpermitted reservoir yield.

Halbert. The supply is taken from previous TWDB analyses [37].

Fairfield. The supply is from a 1968 Forrest and Cotton study [48] with a maximum allowable drawdown of 10 feet to allow the power plant to operate. (The remaining reliable supply from Lake Fairfield is based on diversions from the Trinity River of water purchased from the Trinity River Authority and charged against the Lake Livingston water right. This supply is shown as an import to the region in this table.)

Bryson. The available supply is assumed to equal the TNRCC water right [12]. Recent diversions have been nearly that amount.

Mineral Wells. The supply is taken from previous TWDB analyses [37].

Wortham Lake. This lake has no reliable supply.

Teague Lake. This lake has no reliable supply.

Groundwater

Groundwater availability by county and basin was taken from previous TWDB analyses of aquifers in Region C [38]. No additional groundwater studies have been made for this project. The only changes from previous TWDB groundwater availability figures were:

- The addition of 2,919 acre-feet per year of available water in Fannin County from the "other/undifferentiated" aquifer in the Red River Basin. Historically, this water has been pumped from the Red River alluvium for irrigation use [15], and the amount available is based on historical use. Such diversions should be available as a reliable water supply in the future.
- The 2050 availability for the Trinity Aquifer was set equal to the estimated annual recharge. (Previous TWDB analyses had the availability equal to the average annual recharge for 2030 and 2040 and somewhat less than the average annual recharge for 2050.)

The large groundwater availability shown for the Carrizo-Wilcox Aquifer in Freestone County may not be of great practical significance. Demand in Freestone County is much less than the

availability shown and is unlikely to increase to the level of the availability. In addition, some of the Freestone County water suppliers using the Carrizo-Wilcox have expressed interest in converting to a surface water supply due to concerns over quality and reliability even at the current low use levels.

Irrigation Local Supply

The local irrigation availability is based on existing surface water rights for irrigation not associated with major reservoirs [10]. The TNRCC is currently developing Water Availability Models to determine the reliable supply available for existing water rights in Texas. However, the Water Availability Models for Region C basins are not yet available. The local irrigation values for Region C counties in Table 4 represent estimated reliable supplies. They were developed using the following approach:

- Irrigation water rights on major streams were assumed to be reliable.
- Irrigation water rights on minor streams were assumed to be reliable if they have authorized storage equal to or greater than one-half the authorized diversion.
- Irrigation water rights on minor streams were assumed not to be reliable if they have authorized storage less that one-half the authorized diversion.

In some cases, the estimated supply from surface water for irrigation exceeds the projected irrigation demand for the county.

Mining Local Supply

Projected mining uses from TWDB represent the projected diversion of water, which may be much greater than the consumptive use of water in some cases. As a result, a water right permit with a small consumptive use can sometimes provide a large mining diversion. Also, local supplies which may not be state water (such as quarries and gravel pits filled by groundwater) may provide substantial supplies for non-consumptive mining use. The maximum historical use from these small local sources (according to TWDB records) is assumed to be available in the future.

Livestock Local Supply

Most surface water used for livestock is taken from unpermitted stock ponds or directly from streams. The maximum historical use from these sources (according to TWDB records) is assumed to be available in the future.

Reuse

The reuse listed in TWDB Table 4 is limited to currently permitted and operating reuse projects and existing direct reuse for irrigation or industrial purposes. The values for reuse in Region C given in TWDB Table 4 are based on the following analyses:

Trinity River Authority/Los Colinas. The Trinity River Authority (TRA) has a contract with Dallas County Utility and Reclamation District to supply water for irrigation use in Los Colinas in Irving. The contract allows use of 8,000 acre-feet per year or more, but actual use to date has been 2,400 acre-feet per year [9, 49]. The future amount available is assumed to be 8,000 acre-feet per year.

Trinity River Authority/Waxahachie. The TRA has a water right to reuse up to 5,129 acre-feet per year of the discharge from Waxahachie's wastewater treatment plant [12]. The supply is based on 7% channel losses and 65% return flow from Waxahachie's projected municipal water use, limited to the 5,129 acre-feet per year permit.

The Trinity River Authority also has a water right to reuse up to 3,626 acre-feet per year of return flows of the discharge from Ennis' wastewater treatment plant after the discharge location is moved to the Lake Bardwell watershed [12]. Since development of this supply will require moving the discharge for Ennis' wastewater treatment plant, it is not included as a currently available water supply.

Jacksboro. The City of Jacksboro has a water right to reuse up to 200 acre-feet per year of its wastewater effluent for irrigation [12].

Lake Worth for Cooling. Texas Water Development Board projections of manufacturing demand represent diversions of water rather than consumptive use. In many cases the water is not returned to the source, and the diversions are the same as the consumptive use. However, diversions of raw water to cool industrial plants are sometimes returned to the source, and consumptive use in such cases can be much less than the amount diverted. In order for TWDB projections of manufacturing demand to balance properly with the supply available, it is necessary to show return flows from such diversions as a source of supply. The only major historical diversion of this sort in Region C has been Lockheed's diversion of cooling water from Lake Worth. These diversions have been as high as 39,231 acre-feet (in 1989). They were 14,053 acre-feet in 1996 and 16,067 acre-feet in 1997. The diversions are used for once-through cooling, and most of the water diverted is returned to the lake. The consumptive use is only a small fraction of the water diverted. It is assumed that cooling water diversions for Lockheed-Martin are a portion of the projected industrial demands for Tarrant County, and that most of the water diverted will continue to be returned for the lake and available for reuse by Lockheed or others. A return flow of 40,000 acre-feet per year from this source is assumed to be available for reuse in 2000 reducing to 25,000 acre-feet per year by 2030. (In effect, this supply offsets the portion of projected manufacturing use from Tarrant County that has historically been a non-consumptive diversion.)

In addition to the specific water rights for reuse described above, a number of entities have received authorizations from the TNRCC for direct reuse of treated wastewater effluent, primarily for irrigation of golf courses and other landscapes [(50)]. Reuse by The Colony, Trophy Club, Denton, Denison, Crandall, and Azle is assumed to remain at historical levels reported by the TWDB [(49)]. Reuse for a golf course in Kaufman is assumed to increase from less than 100 acre-feet per year to 100 acre-feet per year.

Fort Worth is currently selling treated wastewater to the Water Chase Golf Course in Tarrant County, and the existing facilities will supply up to 2,240 acre-feet per year. The North Texas Municipal Water District has facilities to sell up to 1,120 acre-feet per year to a golf course in Rockwall County.

Grapevine and Upper Trinity Regional Municipal Water District have recently received authorization for direct reuse projects that are not yet developed. Since the facilities to implement these projects are not yet built, they are not included as currently available supplies.

It is likely that reuse will increase dramatically in Region C over the next 50 years, but proposed and potential direct reuse projects are not included in TWDB Table 4. In particular, Grapevine, the Trinity River Authority, and Tarrant Regional Water District all have applications pending with TNRCC that would allow indirect reuse of significant quantities of treated wastewater. Other applications and additional direct reuse are likely to come in the future.

Imports

The supply available from imports in TWDB Table 4 is limited to current Texas Natural Resource Conservation Commission (TNRCC) water rights [12] or the firm yield, whichever is less. Specific sources for imports are listed below:

Chapman. North Texas Municipal Water District, the City of Irving, and the Sulphur River Water District hold water rights in Lake Chapman totaling 146,520 acre-feet per year. Of this total, 127,320 acre-feet per year can be exported for use in Region C – 57,214 acre-feet per year for North Texas Municipal Water District, 54,000 acre-feet per year for Irving, and 16,106 acre-feet per year for the Upper Trinity Regional Water District. The recently completed Water Availability Model for the Sulphur Basin [51] indicated that the firm yield of Lake Chapman is less than 146,520 acre-feet per year. According to the R.J. Brandes Company, the study showed a shortage of 30,315 acre-feet in a 3 year, 8 month critical period [52]. Based on that information, the initial firm yield of Lake Chapman is about 138,250 acre-feet per year.

According to the U.S. Corps of Engineers [53], sedimentation in Lake Chapman is expected to be 37,000 acre-feet over 100 years, and this sedimentation would gradually reduce the reservoir's yield. The values in TWDB Table 4 show Lake Chapman's computed firm yield divided proportionally among the Region C water suppliers with a share of the water. (North Texas MWD's share of the firm yield is included in the NTMWD system supply.) The water supply for Upper Trinity Regional Water District could reduce by 25% in 2050 because the City

of Commerce has the option to reclaim a portion of the water it has sold to UTRWD after 2040. However, based on future water projections for the City of Commerce, it is expected that Commerce may not need to exercise the option, thereby letting the water remain available to UTRWD.

Tawakoni (Terrell). The supply is based on Terrell's contract for water from Lake Tawakoni, with the amount available reduced by the same percent as Dallas' supply from Lake Tawakoni.

Lake Fork (Dallas). The supply is based on Dallas' right for interbasin transfer from the Neches River Basin, confirmed by updated yield studies by Chiang, Patel, and Yerby [42] and by the *Comprehensive Sabine Basin Management Plan* [43].

Palestine (Dallas). The supply is based on updated yield studies for Dallas by Chiang, Patel, and Yerby [42].

Athens (Athens). The yield of Lake Athens is based on the Neches Basin Water Availability Model, with inflows based on drainage area ratio with Lake Palestine [54]. The yield from the WAM study is reduced by 100 acre-feet per year every two decades to account for sedimentation. This reduction for sedimentation is consistent with previous TWDB analyses [37].

Livingston (TXU-Fairfield). TXU has a contract with the Trinity River Authority to divert up to 20,000 acre-feet per year from the Trinity River into Lake Fairfield under TRA's Lake Livingston water right. The contract limits diversions to a maximum of 48,000 acre-feet in any three years. The average allowable diversion of 16,000 acre-feet per year was used as the available supply.

Vulcan Materials (from BRA). Vulcan Materials has a contract to purchase 35 acre-feet per year of water originating in Possum Kingdom Lake from the Brazos River Authority for mining use. (Possum Kingdom Lake is in Region G.) Vulcan Materials has requested to purchase additional water from BRA, and BRA is currently considering that request.

Parker County. A portion of Mineral Wells is in Parker County in Region C, and Mineral Wells also sells water to Millsap Water Supply Corporation and Parker County Water Supply Corporation in Parker County. All of Mineral Wells' water supply currently comes from Lake Palo Pinto in Region G. (Mineral Wells has a water right in Lake Mineral Wells in Parker County but has no plans to use that source for water supply.) In 1997, Mineral Wells sold 66 acre-feet to Millsap WSC and 176 acre-feet to Parker County WSC. We assume that the supply available from this source will be as follows:

- All projected City of Mineral Wells demand in Parker County
- 300 acre-feet per year in 2000 for the two water supply corporations, changing over time in proportion to projected changes in Parker County Other municipal demand until 2030. (After 2030, the importation to these two water supply corporations is assumed to remain constant as projected County Other water use for Parker County decreases.)

Unpermitted Reservoir Yields

The Texas Water Development Board requirements for Senate Bill One planning indicate that the list of current water supply sources in TWDB Table 4 must be based on firm yield for existing reservoirs. However, some reservoirs in Region C do not have a TNRCC water right permit that allows use of the full firm yield of the project. For those reservoirs, the unpermitted reservoir yield is listed separately at the end of TWDB Table 4. In our opinion, this unpermitted yield is not currently available to users in Region C. It is a potential water supply source if appropriate water right permits can be obtained, but permitting additional diversions would be very difficult for most of these reservoirs. The text below discusses the derivation of the unpermitted reservoir yields for Region C:

Moss. The yield for Moss Lake was obtained from previous TWDB analyses [37]. The permitted diversions were subtracted from the firm yield to determine the unpermitted yield.

Texoma (Texas' Share). Most of the conservation storage of Lake Texoma is dedicated for hydropower generation and is not available for water supply. The firm yield was computed assuming that all conservation storage was converted to water supply use, and half of the firm

yield was assumed to be available to Texas. (Hydrologic data for the firm yield analysis was obtained from a Corps of Engineers report [55].) The currently permitted diversions from Lake Texoma in Texas were subtracted from the firm yield to determine the unpermitted yield.

Bonham. The yield for Bonham Lake was obtained from previous TWDB analyses [37]. The permitted diversions were subtracted from the firm yield to determine the unpermitted yield.

Cedar Creek. Freese and Nichols determined the yield for Cedar Creek Lake using hydrologic data developed in previous studies [39, 40, 41] and area-capacity data based on a recent Texas Water Development Board volumetric survey. The currently permitted diversions from Cedar Creek Lake were subtracted from the firm yield to determine the unpermitted yield.

Richland-Chambers. Freese and Nichols determined the yield for Richland-Chambers Lake using hydrologic data developed in previous studies [39, 40, 41] and area-capacity data based on a recent Texas Water Development Board volumetric survey. The currently permitted diversions from Richland-Chambers Lake were subtracted from the firm yield to determine the unpermitted yield.

Bardwell. Freese and Nichols determined the yield for Lake Bardwell using hydrologic data developed in previous studies and area-capacity data based on a recent Texas Water Development Board volumetric survey. The currently permitted diversions from Lake Bardwell were subtracted from the firm yield to determine the unpermitted yield.

Navarro Mills. The yield for Navarro Mills Lake was obtained from previous TWDB analyses [37]. The permitted diversions were subtracted from the firm yield to determine the unpermitted yield.

Identification Codes for TWDB Table 4

The TWDB has developed a source identification code for each source of water within the State of Texas. In Region C, the sources assigned identification codes are classified as water

supply systems, reservoirs in Region C, groundwater, local irrigation supplies, other local supply (for mining purposes), livestock local supply, reuse, and imports. The TWDB provided a code for each supply source or system. The identification code for reservoirs (both in Region C and imports) consists of a two-digit basin number followed by 3 to 4 digits designating each reservoir, as determined by the TWDB. The groundwater is encoded with the first 3 digits representing the TWDB county number associated with the county name and the last 2 digits representing the TWDB aquifer code associated with specific aquifers. The irrigation local supply identification source code is based on the TWDB county number followed by the TWDB code "996" representing irrigation local supply. The identification code for other local supply includes the TWDB county number followed by the TWDB code "999". The livestock local supply code consists of the TWDB basin number and the TWDB code "997" representing water used for livestock purposes. The TWDB provided the source identification codes for all of the reuse projects. The TWDB identification codes are used for identification purposes to aid the TWDB in sorting through the data for all of the regions.

Water Supply Systems

The TWDB provided these identification numbers for the Region C water supply systems:

020B0	North Texas MWD
08290	Lost Creek/Jacksboro
086C0	West Fork less Bridgeport Local
086E0	Cedar Creek/Richland-Chambers
086F0	Ray Hubbard/Tawakoni System
086D0	Elm Fork/Lake Grapevine

Reservoirs in Region C

The first two digits represent the TWDB basin code for the basin in which the reservoir is located:

02 Red River Basin

05 Sabine River Basin

08 Trinity River Basin

12 Brazos River Basin

The last 3 (sometimes 4) digits and letters of the reservoir codes were provided by the TWDB and are as follows:

02220 Moss

08380 Muenster

02230P Texoma (GTUA)

02230P Texoma (Denison)

02230P Texoma (TXU)

02230P Texoma (RRA)

02240 Randell

02250 Valley

02270 Bonham

02280 Coffee Mill

08090 Kiowa

08100P Ray Roberts (Denton)

08110P Lewisville (Denton)

08010P Bridgeport Local

08060 Benbrook

08240P Richland-Chambers (Corsicana)

08050 Weatherford

0807A Grapevine (PCMUD)

0807A Grapevine (Grapevine)

0807A Grapevine (in dispute)

08120 Arlington

08130 Joe Pool

08140 Mountain Creek

08080 North

08150 White Rock
08180 Terrell
08640 Clark
08210 Bardwell
08200 Waxahachie
08410 Forest Grove
A08195 Trinidad City Lake
08390 Trinidad
08230 Navarro Mills
08220 Halbert
08420 Fairfield
12148 Bryson
12170 Mineral Wells
08265 Wortham Lake
12375 Teague City Lake

Groundwater

For the groundwater source identification code, the first three digits represent the county in which the aquifer is located. The Region C TWDB county numbers are:

043 Collin County
049 Cooke County
057 Dallas County
061 Denton County
070 Ellis County
074 Fannin County
081 Freestone County
091 Grayson County
107 Henderson County
119 Jack County

129 Kaufman County

175 Navarro County

184 Parker County

199 Rockwall County

220 Tarrant County

249 Wise County

The last two digits in the groundwater identification code represent the aquifer name. The Region C aquifer identification codes and their corresponding names are as follows:

10 Carrizo Wilcox Aquifer

20 Nacatoch Aquifer

22 Other Aquifer

28 Trinity Aquifer

29 Woodbine Aquifer

The specific identification codes for Region C groundwater sources include:

04328 Trinity-Collin

04329 Woodbine-Collin

04922 Other-Cooke

04928 Trinity-Cooke

04928 Trinity

04929 Woodbine-Cooke

05722 Other-Dallas

05728 Trinity-Dallas

05729 Woodbine-Dallas

06128 Trinity-Denton

06129 Woodbine-Denton

07028 Trinity-Ellis

07029 Woodbine-Ellis

07428 Trinity-Fannin
07429 Woodbine-Fannin
07422 Other-Fannin
08110 Carrizo-Wilcox-Freestone
08124 Queen City-Freestone
09122 Other-Freestone
09128 Trinity-Grayson
09129 Woodbine-Grayson
10710 Carrizo-Wilcox-Henderson
10720 Nacatoch-Henderson
10722 Other-Henderson
10724 Queen City-Henderson
11922 Other-Jack
11928 Trinity-Jack
12920 Nacatoch-Kaufman
12928 Trinity-Kaufman
12929 Woodbine\Kaufman
17510 Carrizo-Wilcox-Navarro
17520 Nacatoch-Navarro
17522 Other-Navarro
17528 Trinity-Navarro
17529 Woodbine-Navarro
18422 Other-Parker
18428 Trinity-Parker
19920 Nacatoch-Rockwall
19928 Trinity-Rockwall
19929 Woodbine-Rockwall
22028 Trinity-Tarrant
22029 Woodbine-Tarrant
24928 Trinity-Wise

Local Irrigation Supplies from Surface Water

The local irrigation supply identification codes begin with the first three digits representing the TWDB county number.

043 Collin County
049 Cooke County
057 Dallas County
061 Denton County
070 Ellis County
074 Fannin County
081 Freestone County
091 Grayson County
107 Henderson County
119 Jack County
129 Kaufman County
175 Navarro County
184 Parker County
199 Rockwall County
220 Tarrant County
249 Wise County

The "996" is the TWDB code referring to local irrigation supplies from surface water and are listed below. Thus 04996 is local irrigation supply in Cooke County, for example.

Mining Local Supply

The first two digits in the code for mining local supply represent the basin number.

02 Red River Basin
05 Sabine River Basin

08 Trinity River Basin

12 Brazos River Basin

The "999" is the TWDB code to represent other local surface water supply for mining purposes. Thus 08999 is mining local supply in the Trinity Basin, etc.

Livestock Local Supply

The first two digits in the livestock local supply code represent the basin number.

02 Red River Basin

05 Sabine River Basin

08 Trinity River Basin

12 Brazos River Basin

The "997" is the TWDB code representing surface water used for livestock purposes. Thus 05997 is surface water used for livestock in the Sabine Basin, etc.

Reuse

The source identification codes for reuse projects in Region C were provided by the TWDB. The following list contains the reuse projects and the codes assigned per the TWDB:

3508C1 Trinity River Authority/Los Colinas

3508C1 Trinity River Authority/Waxahachie

3508C1 Jacksboro (irrigation)

36147 Lake Worth for Cooling

36132 The Colony (golf)

36132 Trophy Club (golf)

36132 Denton (Power Plant)

36132 UTRWD

36135 Denison (golf)

36142 Country Club Water Supply (golf)

36142 Crandall (golf)

36147 Azle (golf)

Water Chase Golf Course

Buffalo Creek Golf Course

Imports

The Region C imports are all surface water supply sources and are assigned codes to their names as explained above in "Reservoirs in Region C". The imported waters are identified below:

03010P Chapman (Irving)

03010P Chapman (Upper Trinity RWD)

05010P Tawakoni (Terrell)

05040 Fork (Dallas)

06020 Palestine (Dallas)

06010 Athens (Athens)

08400 Livingston (TXU-Fairfield)

12150 Vulcan Materials (from BRA)

12160 Parker County (from Mineral Wells)

Unpermitted Reservoir Yield

The source identification codes for unpermitted reservoir yields are based on the same methodology as explained in "Reservoirs in Region C" above. The unpermitted reservoir yield identification codes are as follows:

02220 Moss

02230 Texoma

02270 Bonham

086E0 Cedar Creek

08240 Richland Chambers

08210 Bardwell

08230 Navarro Mills

TWDB Table 4
Current Water Supply Sources

A	B	C	D			E		F		G	H	I	J	K	L	
Name of Specific Source	**Type of Water Supply**	**Regional Water Planning Group Letter**	**County Number for Supply Source**	User	County Name of Supply Source	**Basin Number for Supply Source**	Basin Name for Supply Source	**Specific Source Indentifier Number**	Estimated 1996 Use	**Value for Year 2000 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2010 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2020 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2030 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2040 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2050 of Total Supply from Source During Drought of Record Conditions**	Comments
WATER SUPPLY SYSTEMS																
Lake Lavon/Reuse	02	C	43	NTMWD	Collin	8	Trinity	080C0	149,408	139,843	138,143	136,543	134,743	132,943	131,143	Includes Lavon and permitted reuse.
Lost Creek/Jacksboro System	02	C	119	Jacksboro	Jack	8	Trinity	08290	589	1,397	1,397	1,397	1,397	1,397	1,397	Permitted amount equal to firm yield.
West Fork less Bridgeport Local	02	C	220	TRWD	Tarrant	8	Trinity	086C0	75,350	86,600	85,600	84,600	83,600	82,600	81,700	Includes Eagle Mountain, Worth, and part of Bridgeport.
Cedar Creek/Richland-Chambers System	02	C		TRWD	Henderson (Kaufman)/ Freestone (Navarro)	8	Trinity	086E0	162,313	385,000	385,000	385,000	385,000	385,000	382,700	Limited to permit or firm yield, whichever is less. Unpermitted yield shown below.
Elm Fork/Lake Grapevine System	02	C	61	Dallas	Dallas (Tarrant, Denton)	8	Trinity	086D0	238,708	220,420	219,040	207,545	206,165	204,670	203,290	Includes diversions under CF-75 and Dallas' share of Ray Roberts, Lewisville, and Grapevine. Also, 10,000 AF/Y through 2010 for #5414 and 2915 AF/Y for TXU Industrial use through 2050. 15% Overdraft of Ray Roberts and Lake Grapevine.
Total for Systems									626,368	833,260	829,180	815,085	810,905	806,610	800,230	
- Portion from Region C Reservoirs									603,023	797,317	793,237	779,142	774,962	770,667	764,287	
- Portion from Reuse									23,345	35,943	35,943	35,943	35,943	35,943	35,943	NTMWD Lake Lavon
RESERVOIRS IN REGION C																
Moss	00	C	49	Gainesville	Cooke	2	Red	02220	0	4,500	4,500	4,500	4,500	4,500	4,500	Limited by permit. Unpermitted yield shown below.
Lake Texoma (Texas' Share - NTMWD)	02	C	91	NTMWD	Grayson	2	Red	020C0	35,284	77,300	77,300	77,300	77,300	77,300	77,300	NTMWD share of Lake Texoma.
Lake Texoma (Texas' Share - GTUA)	00	C	91	GTUA	Grayson	2	Red	02230P	6,165	25,000	25,000	25,000	25,000	25,000	25,000	P-4301. Unpermitted yield for Texoma listed below.
Lake Texoma (Texas' Share - Denison)	00	C	91	Denison	Grayson	2	Red	02230P	156	24,400	24,400	24,400	24,400	24,400	24,400	CA-4901. Unpermitted yield for Texoma listed below.
LakeTexoma (Texas' Share - TXU)	00	C	91	TXU	Grayson	2	Red	02230P	2,322	10,000	10,000	10,000	10,000	10,000	10,000	CA-4900. Unpermitted yield for Texoma listed below.
Lake Texoma (Texas' Share - RRA)	00	C	91	RRA	Grayson	2	Red	02230P	234	2,000	2,000	2,000	2,000	2,000	2,000	CA-4898. Unpermitted yield for Texoma listed below.
Randell	00	C	91	Denison	Grayson	2	Red	02240	5,350	5,280	5,280	5,280	5,280	5,280	5,280	Yields from TWDB data (CA-4901).
Valley	00	C	74	TXU	Fannin (Grayson)	2	Red	02250	0	0	0	0	0	0	0	Reliable yield depends on Texoma contract. Forced evaporation was 2,735 acre-feet in 1996.

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Bonham	00	C	74	Bonham	Fannin	2	Red	02270	1,577	5,340	5,340	5,340	5,340	4,850	4,250	Limited to permit or firm yield, whichever is less. Unpermitted yield shown below.
Coffee Mill	00	C	74	TPWD	Fannin	2	Red	02280	0	0	0	0	0	0	0	No diversion (recreation, CA-4915)
Kiowa	00	C	49	Homeowners	Cooke	8	Trinity	08090	0	0	0	0	0	0	0	No diversion (recreation. CA-2334A)
Ray Roberts (Denton)	00	C	61	Denton	Denton (Cooke, Grayson)	8	Trinity	08100P	11,150	22,150	22,000	21,800	21,600	21,450	21,300	Dallas/Denton Contract
Lewisville (Denton)	00	C	61	Denton	Denton	8	Trinity	08110P	4,875	4,870	4,830	4,790	4,760	4,720	4,680	Dallas/Denton Contract
Bridgeport Local	00	C	249	TRWD	Wise (Jack)	8	Trinity	08010P	3,019	15,000	15,000	15,000	15,000	15,000	15,000	Limited by permit. Remainder of yield in West Fork less Bridgeport Local system.
Benbrook	00	C	220	TRWD	Tarrant	8	Trinity	08060	4,650	6,833	6,833	6,600	6,400	6,200	6,000	TRWD 1990 study by Freese and Nichols. 1996 use from TNRCC files.
Richland-Chambers (Corsicana)	00	C	81	Corsicana	Freestone (Navarro)	8	Trinity	08240P	0	13,650	13,650	13,650	13,650	13,650	13,650	CA-5030. Unpermitted yield for Richland-Chambers is given below.
Weatherford	00	C	184	Weatherford	Parker	8	Trinity	08050	2,845	2,000	1,850	1,730	1,600	1,470	1,350	Yields from TWDB data.
Grapevine (PCMUD)	00	C	61	PCMUD	Tarrant (Denton)	8	Trinity	08070	9,983	10,800	10,800	10,800	10,800	10,800	10,800	Rights in dispute. This is minimum proposed by any party in the dispute.
Grapevine (Grapevine)	00	C	61	Grapevine	Tarrant (Denton)	8	Trinity	08070	4,332	1,800	1,800	1,800	1,800	1,800	1,800	Rights in dispute. This is minimum proposed by any party in the dispute.
Grapevine (in dispute)	00	C	61	Unknown	Tarrant (Denton)	8	Trinity	08070	0	4,100	4,100	4,100	4,100	4,100	4,100	Rights in dispute. This is the amount claimed by more than one party.
Arlington	00	C	220	Arlington, TXU	Tarrant	8	Trinity	08120	13,000	6,450	6,400	6,350	6,300	6,250	6,200	Yield from F&N operation study (1999). Lose 50 ac-ft/yr per decade per TWDB.
Joe Pool	00	C	57	TRA	Dallas (Tarrant, Ellis)	8	Trinity	08130	6,860	16,900	16,800	16,600	16,500	16,400	16,300	Yields from TWDB data.
Mountain Creek	00	C	57	TXU	Dallas	8	Trinity	08140	4,577	6,400	6,400	6,400	6,400	6,400	6,400	Yields from TWDB data. Yield includes required releases from Joe Pool Lake.
North	00	C	57	TXU	Dallas	8	Trinity	08080	0	0	0	0	0	0	0	Reliable supply depends on purchase from Dallas. Forced evaporation was 1,796 acre-feet in 1996.
Lake Ray Hubbard (Dallas)	02	C	57	Dallas	Dallas	08	Trinity	08170	80,535	68,425	67,965	67,505	67,160	66,700	66,240	Includes 15% overdraft of Ray Hubbard.
White Rock	00	C	57	Dallas	Dallas	8	Trinity	08150	0	3,000	3,000	3,000	3,000	3,000	3,000	Current irrigation authorization (CA-2461).
Terrell	00	C	129	Terrell	Kaufman	8	Trinity	08180	3,594	1,650	1,634	1,617	1,600	1,580	1,560	Yields from TWDB data.
Clark	00	C	70	Ennis	Ellis	8	Trinity	08640	0	0	0	0	0	0	0	Assumed no yield.

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Bardwell	00	C	70	TRA	Ellis	8	Trinity	08210	4,976	9,600	9,600	9,500	9,000	8,600	8,100	Yields from yield study, limited to permit. Unpermitted yield is shown below.
Waxahachie	00	C	70	Waxahachie	Ellis	8	Trinity	08200	1,757	2,400	2,400	2,400	2,400	2,400	2,400	Yields from TWDB data.
Forest Grove	00	C	107	TXU	Henderson	8	Trinity	08410	805	3,700	3,700	3,700	3,700	3,700	3,700	Freese and Nichols 1974 study for TXU. 1996 release was for Lake Trinidad.
Trinidad City Lake	00	C	107	Trinidad	Henderson	8	Trinity	A08195	166	1,000	1,000	1,000	1,000	1,000	1,000	CA-4984.
Trinidad	00	C	107	TXU	Henderson	8	Trinity	08390	4,000	4,000	4,000	4,000	4,000	4,000	4,000	Yields from TWDB data (including diversions from Trinity).
Navarro Mills	00	C	175	TRA	Navarro	8	Trinity	08230	6,236	19,400	19,400	19,400	19,400	19,400	19,130	Yields from TWDB, limited to permit. Unpermitted yield is shown below.
Halbert	00	C	175	Corsicana	Navarro	8	Trinity	08220	2,238	600	600	600	600	600	600	Yields from TWDB data.
Fairfield	00	C	81	TXU	Freestone	8	Trinity	08420	0	2,000	2,000	2,000	2,000	2,000	2,000	Yields with maximum allowable drawdown (Forrest and Cotton, 1968). Additional supply depends on purchase from TRA. Forced evaporation was 6,916 acre-feet in 1996.
Bryson	00	C	119	Bryson	Jack	12	Brazos	12870	67	90	90	90	90	90	90	Has supplied up to 74 acre-feet.
Mineral Wells	00	C	182	Mineral Wells	Parker	12	Brazos	12170	0	1,500	1,500	1,500	1,500	1,500	1,500	Yields from TWDB data.
Wortham Lake	00	C	81	Wortham	Freestone	8	Trinity	08700	101	0	0	0	0	0	0	Not a reliable supply.
Teague City Lake	00	C	81	Teague	Freestone	12	Brazos	12860	0	0	0	0	0	0	0	Not a reliable supply.
GROUNDWATER																
Other	01	C	43		Collin	5	Sabine	04322	4	5	5	5	5	5	5	
Other	01	C	43		Collin	8	Trinity	04322	107	134	134	134	134	134	134	
Trinity	01	C	43		Collin	5	Sabine	04328	Incl. Below	125	125	125	125	125	125	
Trinity	01	C	43		Collin	8	Trinity	04328	1,124	5,496	5,496	5,496	4,567	4,567	4,567	279 AF Other-Undif. In 1996
Woodbine	01	C	43		Collin	5	Sabine	04329	Incl. Below	94	94	94	94	94	94	
Woodbine	01	C	43		Collin	8	Trinity	04329	1,106	1,738	1,738	1,738	1,738	1,738	1,738	
Other	01	C	49		Cooke	2	Red	04922	0	316	203	158	130	112	117	
Other	01	C	49		Cooke	8	Trinity	04922	0	309	0	0	0	0	0	
Trinity	01	C	49		Cooke	2	Red	04928	Incl. Below	669	669	669	554	554	554	
Trinity	01	C	49		Cooke	8	Trinity	04928	6,809	3,860	3,860	3,860	3,199	3,199	3,199	
Woodbine	01	C	49		Cooke	2	Red	04929	0	140	140	140	140	140	140	
Woodbine	01	C	49		Cooke	8	Trinity	04929	0	300	300	300	300	300	300	
Other	01	C	57		Dallas	8	Trinity	05722	526	591	591	591	591	591	591	
Trinity	01	C	57		Dallas	8	Trinity	05728	4,221	4,964	4,964	4,964	4,964	4,964	4,964	
Woodbine	01	C	57		Dallas	8	Trinity	05729	805	1,440	1,440	1,440	1,444	1,444	1,444	
Other	01	C	61		Denton	8	Trinity	06122	9	5	5	5	4	4	4	
Trinity	01	C	61		Denton	8	Trinity	06128	10,006	6,109	6,109	6,109	5,119	5,119	5,119	

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Woodbine	01	C	61		Denton	8	Trinity	06129	1,845	1,010	1,010	1,010	1,010	1,010	1,010	
Other	01	C	70		Ellis	8	Trinity	07022	155	105	105	105	88	88	88	
Trinity	01	C	70		Ellis	8	Trinity	07028	3,776	5,629	5,629	5,629	4,717	4,717	4,717	
Woodbine	01	C	70		Ellis	8	Trinity	07029	2,656	1,832	1,832	1,832	1,832	1,832	1,832	
Trinity	01	C	74		Fannin	2	Red	07428	614	1,749	1,749	1,749	1,368	1,368	1,368	
Trinity	01	C	74		Fannin	3	Sulphur	07428	Incl. Above	224	224	224	224	224	224	
Trinity	01	C	74		Fannin	8	Trinity	07428	Incl. Above	89	89	89	89	89	89	
Woodbine	01	C	74		Fannin	2	Red	07429	2,288	3,439	3,439	3,439	3,439	3,439	3,439	
Woodbine	01	C	74		Fannin	3	Sulpnur	07429	Inc. Above	1,546	1,546	1,546	1,546	1,546	1,546	
Woodbine	01	C	74		Fannin	8	Trinity	07429	Incl. Above	888	888	888	888	888	888	
Other	01	C	74		Fannin	2	Red	07422	2,458	2,919	2,919	2,919	2,919	2,919	2,919	Based on maximum historical
Carrizo-Wilcox	01	C	81		Freestone	8	Trinity	08110	2,382	82,511	82,511	82,511	82,511	82,511	82,511	46 AF Other-Undif. In 1996
Carrizo-Wilcox	01	C	81		Freestone	12	Brazos	08110	Incl. Above	10,946	10,946	10,946	10,946	10,946	10,946	
Other	01	C	81		Freestone	8	Trinity	08122	28	35	35	35	35	35	35	
Other	01	C	81		Freestone	12	Brazos	08122	17	21	21	21	21	21	21	
Queen City	01	C	81		Freestone	8	Trinity	08124	37	345	345	345	345	345	345	
Queen City	01	C	81		Freestone	12	Brazos	08124	38	48	48	48	48	48	48	
Other	01	C	91		Grayson	2	Red	09122	29	25	25	25	25	25	25	
Other	01	C	91		Grayson	8	Trinity	09122	18	10	10	10	9	9	9	
Trinity	01	C	91		Grayson	2	Red	09128	Incl. Below	1,295	1,295	1,295	1,165	1,165	1,165	
Trinity	01	C	91		Grayson	8	Trinity	09128	9,325	2,129	2,129	2,129	1,914	1,914	1,914	
Woodbine	01	C	91		Grayson	2	Red	09129	5,954	4,900	4,900	4,900	4,900	4,900	4,900	
Woodbine	01	C	91		Grayson	8	Trinity	09129	Incl. Above	810	810	810	810	810	810	
Carrizo-Wilcox	01	C	107		Henderson	8	Trinity	10710	3,243	4,258	4,258	4,258	4,258	4,258	4,258	
Nacatoch	01	C	107		Henderson	8	Trinity	10720	0	10	10	10	10	10	10	
Other	01	C	107		Henderson	8	Trinity	10722	162	167	167	167	167	167	167	
Queen City	01	C	107		Henderson	8	Trinity	10724	39	480	480	480	480	480	480	
Other	01	C	119		Jack	12	Brazos	11922	Incl. Below	284	284	234	216	204	234	
Other	01	C	119		Jack	8	Trinity	11922	640	650	650	600	600	630	600	
Trinity	01	C	119		Jack	8	Trinity	11928	Incl. Below	398	322	436	315	315	304	
Trinity	01	C	119		Jack	12	Brazos	11928	5	450	450	400	380	370	400	
Nacatoch	01	C	129		Kaufman	5	Sabine	12920	Incl. Below	7	7	7	7	7	7	
Nacatoch	01	C	129		Kaufman	8	Trinity	12920	249	53	53	53	53	53	53	
Other	01	C	129		Kaufman	5	Sabine	12922	187	124	124	124	124	124	124	
Other	01	C	129		Kaufman	8	Trinity	12922	73	87	87	87	87	87	87	
Trinity	01	C	129		Kaufman	8	Trinity	12928	0	1,184	1,184	1,184	992	992	992	
Woodbine	01	C	129		Kaufman	8	Trinity	12929	113	135	135	135	135	135	135	
Carrizo-Wilcox	01	C	175		Navarro	8	Trinity	17510	73	9,172	9,172	9,172	9,172	9,172	9,172	

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Nacatoch	01	C	175		Navarro	8	Trinity	17520	67	229	229	229	229	229	229	
Other	01	C	175		Navarro	8	Trinity	17522	155	104	110	121	132	143	155	
Trinity	01	C	175		Navarro	8	Trinity	17528	0	1,873	1,873	1,873	1,570	1,570	1,570	
Woodbine	01	C	175		Navarro	8	Trinity	17529	81	499	499	499	499	499	499	
Other	01	C	184		Parker	8	Trinity	18422	Inc. Below	156	156	156	129	129	129	
Other	01	C	184		Parker	12	Brazos	18422	31	1,812	1,993	2,212	2,503	2,740	2,926	
Trinity	01	C	184		Parker	8	Trinity	18428	5,500	2,473	2,473	2,473	2,040	2,040	2,040	
Trinity	01	C	184		Parker	12	Brazos	18428	0	1,258	1,258	1,258	1,038	1,038	1,038	
Woodbine	01	C	184		Parker	8	Trinity	18429	4	4	4	4	3	3	3	
Woodbine	01	C	184		Parker	12	Brazos	18429	2	3	3	3	3	3	3	
Nacatoch	01	C	199		Rockwall	8	Trinity	19920	0	1	1	1	1	1	1	158 AF Other-Undif. In 1996
Other	01	C	199		Rockwall	5	Sabine	19922	150	188	188	188	188	188	188	
Other	01	C	199		Rockwall	8	Trinity	19922	15	19	19	19	19	19	19	
Trinity	01	C	199		Rockwall	5	Sabine	19928	0	211	211	211	169	169	169	
Trinity	01	C	199		Rockwall	8	Trinity	19928	0	747	747	747	665	665	665	
Woodbine	01	C	199		Rockwall	8	Trinity	19929	0	144	144	144	144	144	144	
Other	01	C	220		Tarrant		Trinity	22022	673	207	207	207	207	207	207	
Trinity	01	C	220		Tarrant	8	Trinity	22028	14,616	4,789	4,789	4,789	4,789	4,789	4,789	
Woodbine	01	C	220		Tarrant	8	Trinity	22029	0	766	766	766	766	766	766	
Other	01	C	249		Wise		Trinity	24922	115	106	106	106	89	89	89	
Trinity	01	C	249		Wise	8	Trinity	24928	4,592	4,862	4,862	4,862	4,074	4,074	4,074	15 AF Other-Undif. In 1996
LOCAL IRRIGATION SUPPLIES FROM SURFACE WATER																
Irrigation Local Supply:BaZoCo2 -3 -49	00	C	49		Cooke	2	Red	049996	N/A	23	23	23	23	23	23	
Irrigation Local Supply:BaZoCo2 -3 -74	00	C	74		Fannin	2	Red	074996	N/A	12,728	12,728	12,728	12,728	12,728	12,728	
Irrigation Local Supply:BaZoCo2 -3 -91	00	C	91		Grayson	2	Red	091996	N/A	996	996	996	996	996	996	
Irrigation Local Supply:BaZoCo3 -1 -74	00	C	74		Fannin	3	Sulphur	074996	N/A	0	0	0	0	0	0	
Irrigation Local Supply:BaZoCo5 -1 -43	00	C	43		Collin	5	Sabine	043996	N/A	0	0	0	0	0	0	
Irrigation Local Supply:BaZoCo5 -1 -129	00	C	129		Kaufman	5	Sabine	129996	N/A	0	0	0	0	0	0	
Irrigation Local Supply:BaZoCo5 -1 -199	00	C	199		Rockwall	5	Sabine	199996	N/A	0	0	0	0	0	0	
Irrigation Local Supply:BaZoCo8 -1 -43	00	C	43		Collin	8	Trinity	043996	N/A	1,017	1,017	1,017	1,017	1,017	1,017	
Irrigation Local Supply:BaZoCo8 -1 -49	00	C	49		Cooke	8	Trinity	049996	N/A	70	70	70	70	70	70	
Irrigation Local Supply:BaZoCo8 -1 -57	00	C	57		Dallas	8	Trinity	057996	N/A	3,387	2,719	2,719	2,719	2,719	2,719	
Irrigation Local Supply:BaZoCo8 -1 -61	00	C	61		Denton	8	Trinity	061996	N/A	634	634	634	634	634	634	
Irrigation Local Supply:BaZoCo8 -1 -70	00	C	70		Ellis	8	Trinity	070996	N/A	508	508	508	508	508	508	
Irrigation Local Supply:BaZoCo8 -1 -74	00	C	74		Fannin	8	Trinity	074996	N/A	0	0	0	0	0	0	
Irrigation Local Supply:BaZoCo8 -1 -91	00	C	91		Grayson	8	Trinity	091996	N/A	0	0	0	0	0	0	
Irrigation Local Supply:BaZoCo8 -1 -107	00	C	107		Henderson	8	Trinity	107996	N/A	2,382	2,382	2,382	2,382	2,382	2,382	
Irrigation Local Supply:BaZoCo8 -1 -119	00	C	119		Jack	8	Trinity	119996	N/A	110	110	110	110	110	110	
Irrigation Local Supply:BaZoCo8 -1 -129	00	C	129		Kaufman	8	Trinity	129996	N/A	347	347	347	347	347	347	
Irrigation Local Supply:BaZoCo8 -1 -175	00	C	175		Navarro	8	Trinity	175996	N/A	2,901	2,841	2,841	2,841	2,841	2,841	
Irrigation Local Supply:BaZoCo8 -1 -184	00	C	184		Parker	8	Trinity	184996	N/A	472	472	472	472	472	472	
Irrigation Local Supply:BaZoCo8 -1 -199	00	C	199		Rockwall	8	Trinity	199996	N/A	0	0	0	0	0	0	

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rrigation Local Supply:BaZoCo8 -1 -220	00	C	220		Tarrant	8	Trinity	220996	N/A	5,326	4,386	4,386	4,386	4,386	4,386	
rrigation Local Supply:BaZoCo8 -1 -249	00	C	249		Wise	8	Trinity	249996	N/A	714	714	714	714	714	714	
rrigation Local Supply:BaZoCo8 -2 -81	00	C	81		Freestone	8	Trinity	081996	N/A	353	353	353	353	353	353	
rrigation Local Supply:BaZoCo12 -3 -119	00	C	119		Jack	12	Brazos	119996	N/A	15	15	15	15	15	15	
rrigation Local Supply:BaZoCo12 -3 -184	00	C	184		Parker	12	Brazos	184996	N/A	1,317	1,317	1,317	1,317	1,317	1,317	
rrigation Local Supply:BaZoCo12 -5 -81	00	C	81		Freestone	12	Brazos	081996	N/A	0	0	0	0	0	0	
OTHER LOCAL SUPPLY																
Other Local Supply	00	C	43	Mining	Collin	8	Trinity	08999	341	349	349	349	349	349	349	Based on maximum historical use (1992)
Other Local Supply	00	C	49	Mining	Cooke	8	Trinity	08999	237	237	237	237	237	237	237	Based on maximum historical use (1997)
Other Local Supply	00	C	57	Mining	Dallas	8	Trinity	08999	1,521	1,525	1,525	1,525	1,525	1,525	1,525	Based on maximum historical use (1997)
Other Local Supply	00	C	61	Mining	Denton	8	Trinity	08999	90	90	90	90	90	90	90	Based on maximum historical use (1997)
Other Local Supply	00	C	74	Mining	Fannin	2	Red	02999	161	161	161	161	161	161	161	Based on maximum historical use (1996)
Other Local Supply	00	C	81	Mining	Freestone	8	Trinity	08999	170	236	236	236	236	236	236	Based on maximum historical use (1994)
Other Local Supply	00	C	107	Mining	Henderson	8	Trinity	08999	13	29	29	29	29	29	29	Based on maximum historical use (1997)
Other Local Supply	00	C	119	Mining	Jack	8	Trinity	08999	370	370	370	370	370	370	370	Based on maximum historical use (1997)
Other Local Supply	00	C	129	Mining	Kaufman	8	Trinity	08999	75	75	75	75	75	75	75	Based on maximum historical use (1997)
Other Local Supply	00	C	184	Mining	Parker	12	Brazos	12999	242	242	242	242	242	242	242	Based on maximum historical use (1997)
Other Local Supply	00	C	199	Mining	Rockwall	5	Sabine	05999	33	33	33	33	33	33	33	Based on maximum historical use (1997)
Other Local Supply	00	C	220	Mining	Tarrant	8	Trinity	08999	103	103	103	103	103	103	105	Based on maximum historical use (1997). Year 2050 increased to meet demand.
Other Local Supply	00	C	249	Manufacturing	Wise	8	Trinity	08999		8,000	8,000	8,000	8,000	8,000	8,000	Based on maximum historical use (1997)
Other Local Supply	00	C	249	Mining	Wise	8	Trinity	08999	15,470	8,084	8,084	8,084	8,084	8,084	8,084	Based on maximum historical use (1997)
LIVESTOCK LOCAL SUPPLY																
Livestock Local Supply	00	C	43	Livestock	Collin	5	Sabine	05997	27	35	35	35	35	35	35	Based on maximum historical use (1991)
Livestock Local Supply	00	C	43	Livestock	Collin	8	Trinity	08997	757	967	967	967	967	967	967	Based on maximum historical use (1991)
Livestock Local Supply	00	C	49	Livestock	Cooke	2	Red	02997	337	377	377	377	377	377	377	Based on maximum historical use (1994)
Livestock Local Supply	00	C	49	Livestock	Cooke	8	Trinity	08997	722	810	810	810	810	810	810	Based on maximum historical use (1994)
Livestock Local Supply	00	C	57	Livestock	Dallas	8	Trinity	08997	462	712	712	712	712	712	712	Based on maximum historical use (1993)
Livestock Local Supply	00	C	61	Livestock	Denton	8	Trinity	08997	935	935	935	935	935	935	935	Based on maximum historical use (1996)
Livestock Local Supply	00	C	70	Livestock	Ellis	8	Trinity	08997	1,688	1,688	1,688	1,688	1,688	1,688	1,688	Based on maximum historical use (1996)
Livestock Local Supply	00	C	74	Livestock	Fannin	2	Red	02997	1,140	1,140	1,140	1,140	1,140	1,140	1,140	Based on maximum historical use (1996)
Livestock Local Supply	00	C	74	Livestock	Fannin	3	Sulphur	03997	367	367	367	367	367	367	367	Based on maximum historical use (1996)
Livestock Local Supply	00	C	74	Livestock	Fannin	8	Trinity	08997	76	76	76	76	76	76	76	Based on maximum historical use (1996)
Livestock Local Supply	00	C	81	Livestock	Freestone	8	Trinity	08997	961	961	961	961	961	961	961	Based on maximum historical use (1996)
Livestock Local Supply	00	C	81	Livestock	Freestone	12	Brazos	12997	82	82	82	82	82	82	82	Based on maximum historical use (1996)
Livestock Local Supply	00	C	91	Livestock	Grayson	2	Red	02997	1,079	1,079	1,079	1,079	1,079	1,079	1,079	Based on maximum historical use (1996)
Livestock Local Supply	00	C	91	Livestock	Grayson	8	Trinity	08997	604	604	604	604	604	604	604	Based on maximum historical use (1996)
Livestock Local Supply	00	C	107	Livestock	Henderson	8	Trinity	08997	429	475	475	475	475	475	475	Based on maximum historical use (1991)
Livestock Local Supply	00	C	119	Livestock	Jack	8	Trinity	08997	1,214	1,214	1,214	1,214	1,214	1,214	1,214	Based on maximum historical use (1996)
Livestock Local Supply	00	C	119	Livestock	Jack	12	Brazos	12997	451	451	451	451	451	451	451	Based on maximum historical use (1996)
Livestock Local Supply	00	C	129	Livestock	Kaufman	5	Sabine	05997	91	91	91	91	91	91	91	Based on maximum historical use (1996)
Livestock Local Supply	00	C	129	Livestock	Kaufman	8	Trinity	08997	1,531	1,531	1,531	1,531	1,531	1,531	1,531	Based on maximum historical use (1996)

A	B	C	D			E		F		G	H	I	J	K	L	
Name of Specific Source	**Type of Water Supply**	**Regional Water Planning Group Letter**	**County Number for Supply Source**	User	County Name of Supply Source	**Basin Number for Supply Source**	Basin Name for Supply Source	**Specific Source Indentifier Number**	Estimated 1996 Use	**Value for Year 2000 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2010 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2020 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2030 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2040 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2050 of Total Supply from Source During Drought of Record Conditions**	Comments
Livestock Local Supply	00	C	175	Livestock	Navarro	8	Trinity	08997	1,603	1,603	1,603	1,603	1,603	1,603	1,603	Based on maximum historical use (1996)
Livestock Local Supply	00	C	184	Livestock	Parker	8	Trinity	08997	1,026	1,026	1,026	1,026	1,026	1,026	1,026	Based on maximum historical use (1996)
Livestock Local Supply	00	C	184	Livestock	Parker	12	Brazos	12997	896	896	896	896	896	896	896	Based on maximum historical use (1996)
Livestock Local Supply	00	C	199	Livestock	Rockwall	5	Sabine	05997	20	32	32	32	32	32	32	Based on maximum historical use (1991)
Livestock Local Supply	00	C	199	Livestock	Rockwall	8	Trinity	08997	86	136	136	136	136	136	136	Based on maximum historical use (1991)
Livestock Local Supply	00	C	220	Livestock	Tarrant	8	Trinity	08997	360	438	438	438	438	438	438	Based on maximum historical use (1993)
Livestock Local Supply	00	C	249	Livestock	Wise	8	Trinity	08997	1,117	1,117	1,117	1,117	1,117	1,117	1,117	Based on maximum historical use (1996)
REUSE (CURRENTLY PERMITTED OR UNDERWAY)																
Trinity River Authority/Las Colinas Indirect Reuse	00	C	57	TRA	Dallas	8	Trinity	35081	2,433	8,000	8,000	8,000	8,000	8,000	8,000	Contract allows for 8,000 AF/Y or more.
Trinity River Authority/Waxahachie Indirect Reuse	00	C	70	TRA	Ellis	8	Trinity	35081	0	3,400	3,800	3,900	4,400	4,900	5,129	93% of 65% of projected use, limited to permit.
Jacksboro Indirect Reuse (irrigation)	00	C	119	Jacksboro	Jack	8	Trinity	35081	0	0	200	200	200	200	200	
Lake Worth Indirect Reuse for Cooling	00	C	220	Lockheed	Tarrant	8	Trinity	35081	14,053	40,000	35,000	30,000	25,000	25,000	25,000	Return flow from non-consumptive cooling use. Based on highest recent use.
The Colony (golf - direct reuse)	00	C	61	The Colony	Denton	8	Trinity	36132	0	100	100	100	100	100	100	
Trophy Club (golf - direct reuse)	00	C	61	Trophy Club	Denton	8	Trinity	36132	601	600	600	600	600	600	600	
Denton (Power Plant - direct reuse)	00	C	61	Denton	Denton	8	Trinity	36132	135	500	500	500	500	500	500	
UTRWD Direct Reuse	00	C	61	Denton Co. FWSD #1	Denton	8	Trinity	36132	0	2,240	2,240	2,240	2,240	2,240	2,240	
Denison (golf - direct reuse)	00	C	91	Denison	Grayson	2	Red	36055	0	100	100	100	100	100	100	
Country Club Water Supply (golf - direct reuse)	00	C	129	Country Club	Kaufman	8	Trinity	36142	18	0	100	100	100	100	100	
Crandall (golf - direct reuse)	00	C	129	Crandall	Kaufman	8	Trinity	36142	153	200	200	200	200	200	200	
Azle (golf - direct reuse)	00	C	220	Azle	Tarrant	8	Trinity	36147	123	100	100	100	100	100	100	
Water Chase Golf Course Direct Reuse	00	C	220	Golf Course	Tarrant	8	Trinity	36146	0	2,240	2,240	2,240	2,240	2,240	2,240	Buys from Fort Worth
North Texas MWD Buffalo Creek Direct Reuse	00	C	199	Golf Course	Rockwall	8	Trinity	36147	0	1,120	1,120	1,120	1,120	1,120	1,120	Buys from NTMWD
IMPORTS																
Chapman (NTMWD)	02	D	60	NTMWD	Delta (Hopkins)	3	Sulphur	030C0	1,256	53,600	53,200	52,800	52,400	52,000	51,600	NTMWD share of Lake Chapman.
Chapman (Irving)	00	D	60	Irving	Delta (Hopkins)	3	Sulphur	03010	0	50,600	50,200	49,900	49,500	49,100	48,800	

A	B	C	D			E		F		G	H	I	J	K	L	
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Chapman (Upper Trinity MWD)	00	D	60	UTRWD	Delta (Hopkins)	3	Sulphur	03010	0	15,100	15,000	14,900	14,800	14,700	10,900	
Tawakoni (Terrell)	00	D	190	Terrell	Rains (Van Zandt, Hunt)	5	Sabine	05010	1	9,937	9,910	9,877	9,850	9,822	9,789	
Tawakoni (Dallas)	02	D	190	Dallas	Rains (Van Zandt, Hunt)	02	Sabine	05010	119,327	181,800	181,300	180,800	180,200	179,700	179,100	Lake Tawakoni
Fork (Dallas)	00	D	250	Dallas	Wood (Rains)	5	Sabine	05040	0	120,000	120,000	120,000	120,000	120,000	120,000	Exportation to Region C limited by trans-basin diversion permit.
Palestine (Dallas)	00	I	1	Dallas	Anderson (Cherokee, Smith, Henderson)	6	Neches	06020	0	112,700	112,100	111,500	110,900	110,200	109,600	
Athens (Athens)	00	I	107	Athens	Henderson	6	Neches	06010	1,640	6,300	6,200	6,200	6,100	6,100	6,000	
Livingston (TXU-Fairfield)	00	H		TXU Electric		8	Trinity	08400	12,682	16,000	16,000	16,000	16,000	16,000	16,000	
Vulcan Materials (from BRA-Possum Kingdom)	00	G	182	Vulcan Materials (Mining)	Palo Pinto	12	Brazos	12150	15	35	35	35	35	35	35	Contract with BRA
Parker County (from Mineral Wells-Lake Palo Pinto)	00	G	182	Mineral Wells, County Other	Palo Pinto	12	Brazos	12160	230	398	532	554	622	632	644	Supply from Lake Palo Pinto.
SUMMARY																
Reservoirs in Region C									823,877	1,179,455	1,174,409	1,158,894	1,153,142	1,146,807	1,137,917	56.26%
Groundwater									87,122	186,710	186,399	186,548	180,210	180,448	180,670	8.93%
Local Irrigation									Not Avail.	33,300	31,632	31,632	31,632	31,632	31,632	1.56%
Other Local Supply									18,826	19,534	19,534	19,534	19,534	19,534	19,536	0.97%
Livestock Local Supply									18,061	18,843	18,843	18,843	18,843	18,843	18,843	0.93%
Reuse									40,862	94,543	90,243	85,343	80,843	81,343	81,572	4.03%
Imports									135,151	566,470	564,477	562,566	560,407	558,289	552,468	27.31%
REGION C TOTAL									1,123,899	2,098,855	2,085,537	2,063,360	2,044,611	2,036,896	2,022,638	100.00%
UNPERMITTED RESERVOIR YIELD																
Moss	00	C	49		Cooke	2	Red	02220		1,800	1,600	1,400	1,200	1,000	800	TWDB yield in excess of permitted 4,500 acre-feet per year.

A	B	C	D			E		F		G	H	I	J	K	L	
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Texoma (Texas' Share)	00	C	91		Grayson	2	Red	02230		787,550	759,800	732,050	704,300	676,550	648,700	Texas share of yield from yield study in excess of permitted diversion of 145,400 acre-feet per year.
Bonham	00	C	74		Fannin	2	Red	02270		1,900	1,300	700	100	0	0	TWDB yield in excess of permitted 5,340 acre-feet per year.
Cedar Creek	00	C	107		Henderson	8	Trinity	08190P		47,900	44,500	41,100	37,700	34,300	31,000	Freese and Nichols computed yield in excess of permitted 175,000 acre-feet/year.
Richland-Chambers	00	C	81		Freestone	8	Trinity	08240		28,200	22,100	16,000	9,900	3,800	0	Freese and Nichols computed yield in excess of permitted 210,000 acre-feet/year.
Bardwell	00	C	70		Ellis	8	Trinity	08210		900	400	0	0	0	0	Yields from yield study in excess of permitted 9,600 acre-feet per year.
Navarro Mills	00	C	175		Navarro	8	Trinity	08230		3,500	2,100	700	0	0	0	TWDB yield in excess of permited 19,400 acre-feet per year.
TOTAL UNPERMITTED YIELD										871,750	831,800	791,950	753,200	715,650	680,500	

NOTE: Column titles in bold print are columns required by the Texas Water Development Board. The non-bolded columns are provided as additional information.

APPENDIX J

TEXAS WATER DEVELOPMENT BOARD TABLE 5
SUPPLY AVAILABLE BY WATER USER GROUP

APPENDIX J
TEXAS WATER DEVELOPMENT BOARD TABLE 5
SUPPLY AVAILABLE BY WATER USER GROUP

Introduction

One of the tables the Texas Water Development Board requires in the development of regional water plans is TWDB Table 5, which shows the water currently available to each water user group considering limitations imposed by existing facilities, contracts, water rights, and reliable supply. The TWDB requires that the table include the following information [(56)]:

A. Water User Group Name
B. Water User Group Identification Number
C. Regional Planning Group Number Letter (always C in Region C)
D. TWDB Sequence Number for Water User Group
E. TWDB City Number
F. County Number (see key before TWDB Table 5)
G. Basin Number (see key before TWDB Table 5)
H. Type of Water Source (01 = groundwater, 02=surface water, 03=contract)
I. Major Water Provider Number (see key before TWDB Table 5)
J. Regional Water Planning Group Where Supply Is Located (See map and key before TWDB Table 5)
K. County Number for Groundwater Supply Source (see key to counties before TWDB Table 5)
L. Basin Number for Supply Source (see key before TWDB Table 5)
M. Specific Source Identifier (see key before TWDB Table 5)
N. Specific Source Name
O-T. Value for Supply Available for Water User Group for 2000, 2010, 2020, 2030, 2040, 2050

The challenge in developing TWDB Table 5 is determining the values for Columns O through T, the amount available from a source to a water user group for each decade.

The remainder of this memorandum describes how these values were developed. TWDB Table 5 is included at the end of this appendix.

Availability for Groundwater Supplies

Municipal Water Availability (Including County Other)

We contacted each city that used groundwater for municipal purposes in 1997 according to the Texas Water Development Board records [9] by phone to determine the city's pumping capacity.

The initial assumption was that a city could provide an average-day use equal to half of its pumping capacity within a county and basin. If the city was not reached by phone or was uncertain of its pumping capacity, then 125 percent of the maximum amount of water used between 1990 and 1997 was assumed to be available from that source to the water user group in that county and basin.

For those cities that were located partially within two or more counties, the amount of water assumed to be available in each county was based on the division of the city's projected water demand in 2050. When cities were split between two basins, the amount of water assumed to be available in each basin was also divided based on the division of the projected water demand for the year 2050.

Irrigation, Livestock, Manufacturing, Mining, and Power Water Availability

The maximum amount of water used in each county for each category (irrigation, livestock, manufacturing, mining, and power) between 1990 and 1997 was determined, broken down by river basin and aquifer. It was assumed that 125 percent of this historical use would be available in the future.

Surface Water Availability

The following basic data were used in determining the surface water available to an entity:

- The five major water suppliers in Region C were contacted about the amount of water they have contracted to sell to their customers [63, 64, 65, 66, 67]. In several cases, the contracts had maximum limits on the amount of water that the city could buy. In some cases, the major water supplier knew that distribution constraints restricted the actual amount of water a city could purchase. Some of the major water suppliers did not have a maximum contract amount or know of the distribution constraints. As per TWDB regulations, contract renewals cannot be assumed as contracts expire. The renewal of a contract is considered to be a management strategy to be applied in Task 5. Thus, the amount of water allocated becomes zero when contracts expire.

- Several cities have water rights in reservoirs. The water rights and firm yield available to each city were recorded.
- Transmission limitations were determined.
- The projected demands of the major water provider customers were used as the basis for allocating water supplies, unless a customer was limited by a contract amount. In these instances, the contract amounts were used as the basis for allocating water.

Municipal Surface Water Availability

For cities supplied by a reservoir in which they have a water right, the amount available was based on the most restrictive of the water right, the reservoir yield, and the current transmission system capacity.

For those cities supplied by a major water supplier, water availability was based on the projected demand expected to be met by the major water provider without exceeding specified contract limits. The procedure for allocating water supply was as follows:

- The projected demands of each customer were taken as the base. If a contract amount was specified and demand exceeded that limit, then the contract amount was assumed to be the base.

- If the major water provider's transmission system could provide more than the total projected demand, the supply to all customers was increased by the same percentage. Those entities limited by contractual amounts were not allocated more water than what was stated in the contract.
- If the major water providers could not meet the projected demands of their customers, then the supply to all of their customers was decreased by the same percentage.

For those cities that were partially within two or more counties, the amount of water assumed to be available in each portion of the city was based on the division of the projected water demand in 2050 in each county. When cities were split between two basins, the amount of water assumed to be available in each basin was also based on the division of the projected water demand.

County Other Surface Water Availability

County other surface water availability was based on contract amounts if they were known and on projected demands when contract amounts were not known.

Irrigation, Livestock, Manufacturing, Mining, and Power Surface Water Availability

The surface water availability for each of these categories was based on the following:

- Irrigation supply was based on reservoir irrigation permits and the Irrigation Local Supply information presented in TWDB Table 4.
- Livestock supply was based on the Livestock Local Supply information presented in TWDB Table 4.
- The manufacturing water availability was based on reservoir yields and water rights as given in TWDB Table 4, contracts with water providers, and projected sales for manufacturing by cities.
- The surface water availability for mining was assumed taken from TWDB Table 4, mostly as Mining Local Supply.
- The amount of water supply available for steam electric power was based on reservoir yields and water rights as given in TWDB Table 4, contracts, and projected sales to power providers by cities. In some cases, yields and contract amounts were limited by transmission system limitations.

Checking and Adjusting Water Availability

Surface water availability was adjusted on a case by case basis to avoid a situation where some customers depending on a water source experienced surpluses, while others depending on the same source were experiencing shortages.

Major Water Provider Allocation

Tarrant Regional Water District (TRWD)

TRWD has water rights in Lake Benbrook, Bridgeport Local, the Cedar Creek/Richland-Chambers System, and the West Fork less Bridgeport Local System. All of the TRWD sources are located within the Trinity River Basin and the Region C boundaries.

Table J-1 lists the entities served by TRWD. The existing TRWD transmission facilities cannot deliver all of the permitted supply available from the Cedar Creek/Richland Chambers system, and the district has plans to increase its pipeline capacity. The current supplies available from TRWD are adequate to meet year 2000

Table J-1
Tarrant Regional Water District (TRWD) Customers and Sources of Supply

Source	Customer	Type of Water Use
Lake Benbrook	Benbrook WSA	Municipal
Lake Benbrook	Weatherford	Municipal
Lake Benbrook	Fort Worth	Municipal
Lake Benbrook	Ridglea C.C.	Municipal
Lake Benbrook	SW Christian School	Municipal
Lake Benbrook	Country Day School	Municipal
Lake Benbrook	Meditrust Golf Group II, Inc.	Municipal
Lake Benbrook	Mira Vista	Municipal
Lake Benbrook	Benbrook Manufacturing Sales	Manufacturing
Lake Bridgeport	Bridgeport	Municipal
Lake Bridgeport	Jacksboro	Municipal

Table J-1, continued

Source	Customer	Type of Water Use
Lake Bridgeport	W. Wise WSC	Municipal
Lake Bridgeport	- Chico	Municipal
Lake Bridgeport	Decatur (Wise Co. WSD)	Municipal
Lake Bridgeport	Walnut Creek SUD	Municipal
Lake Bridgeport	Bridgeport Raw Sales	Municipal
Lake Bridgeport	Runaway Bay	Municipal
Lake Bridgeport	Runaway Bay Golf Club	Municipal
Lake Bridgeport	Bridgeport Manufacturing Sales	Manufacturing
Lake Bridgeport	Decatur Manufacturing Sales	Manufacturing
Lake Bridgeport	Pioneer Aggregates	Mining
Lake Bridgeport	TXI	Mining
Lake Bridgeport	Hanson Aggregates (Beazer West)	Mining
Lake Bridgeport	Duke (facilities not in place)	S.E. Power
Lake Bridgeport	Tractabel (facilities not in place)	S.E. Power
Cedar Creek-Richland Chambers System	ECCFWS	Municipal
Cedar Creek-Richland Chambers System	- Gun Barrel City	Municipal
Cedar Creek-Richland Chambers System	- Payne Springs	Municipal
Cedar Creek-Richland Chambers System	Kemp	Municipal
Cedar Creek-Richland Chambers System	Mabank	Municipal
Cedar Creek-Richland Chambers System	West CC MUD	Municipal
Cedar Creek-Richland Chambers System	- Seven Points	Municipal
Cedar Creek-Richland Chambers System	- Tool	Municipal
Cedar Creek-Richland Chambers System	Trinidad	Municipal
Cedar Creek-Richland Chambers System	Pinnacle Club	Municipal
Cedar Creek-Richland Chambers System	Star Harbor	Municipal
Cedar Creek-Richland Chambers System	CCCC	Municipal
Cedar Creek-Richland Chambers System	SW Water Supply	Municipal
Cedar Creek-Richland Chambers System	Winkler Water Supply	Municipal
Cedar Creek-Richland Chambers System	Texas Parks & Wildlife	Municipal
Cedar Creek-Richland Chambers System	Arlington	Municipal
Cedar Creek-Richland Chambers System	- Mansfield	Municipal
Cedar Creek-Richland Chambers System	Benbrook	Municipal

Table J-1, continued

Source	Customer	Type of Water Use
Cedar Creek-Richland Chambers System	Tecon (formerly Southwest & Carolyn Water)	Municipal
Cedar Creek-Richland Chambers System	- Blue Mound	Municipal
Cedar Creek-Richland Chambers System	Fort Worth (See breakdown of customers in Table 2)	Municipal
Cedar Creek-Richland Chambers System	Mansfield	Municipal
Cedar Creek-Richland Chambers System	Mansfield (Johnson County)	Municipal
Cedar Creek-Richland Chambers System	Midlothian (not connected)	Municipal
Cedar Creek-Richland Chambers System	TRA (See breakdown of customers in Table 3)	Municipal
Cedar Creek-Richland Chambers System	Shady Oaks (Bill Sisul)	Municipal
Cedar Creek-Richland Chambers System	Long Cove Ranch Co.	Municipal
Cedar Creek-Richland Chambers System	Malakoff (not connected)	Municipal
Cedar Creek-Richland Chambers System	Arlington Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	Fort Worth Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	Mansfield Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	Sulphur Springs Gathering LP (formerly Trident-Eustace & Warren Petroleum)	Manufacturing
Cedar Creek-Richland Chambers System		Manufacturing
Cedar Creek-Richland Chambers System	Trinity Materials	Manufacturing
Cedar Creek-Richland Chambers System	Tarrant County Other Manufacturing	Manufacturing
Cedar Creek-Richland Chambers System	TXU (Forest Grove)	S.E. Power
Cedar Creek-Richland Chambers System	TXU (Handley)	S.E. Power
West Fork Trinity River System	Azle	Municipal
West Fork Trinity River System	Briar (Community WSC)	Municipal
West Fork Trinity River System	Fort Worth	Municipal
West Fork Trinity River System	River Oaks	Municipal
West Fork Trinity River System	Springtown	Municipal
West Fork Trinity River System	- Reno	Municipal
West Fork Trinity River System	Community WSC	Municipal
West Fork Trinity River System	The Landing H.A.	Municipal
West Fork Trinity River System	Tarrant County MUD	Municipal
West Fork Trinity River System	Arc Park	Municipal
West Fork Trinity River System	Shady Oaks C.C.	Municipal
West Fork Trinity River System	Golf Driving Range	Municipal
West Fork Trinity River System	Azle Manufacturing Sales	Manufacturing

Table J-1, continued

Source	Customer	Type of Water Use
West Fork Trinity River System	Fort Worth Manufacturing Sales	Manufacturing
West Fork Trinity River System	Trinity Materials, Inc. (Big Sandy)	Mining
West Fork Trinity River System	Trinity Materials, Inc. (Newark)	Mining
West Fork Trinity River System	TXU Eagle Mountain	S.E. Power

demands, but additional supplies and/or expanded transmission systems will be needed to meet year 2010 demands.

City of Fort Worth

The City of Fort Worth buys all of its water from TRWD's Cedar Creek/Richland-Chambers and West Fork less Bridgeport Local systems. Table J-2 shows all of the Fort Worth customers. Since Fort Worth depends on Tarrant Regional Water District, it has adequate supply for year 2000 demands but will depend on TRWD system expansions to meet year 2010 demands. The majority of Fort Worth customer contracts expire in 2010.

Table J-2
Fort Worth Customers and Supply Sources

Source	Customer	Type of Water Use
Lake Benbrook	Fort Worth	Municipal
Cedar Creek-Richland Chambers System	Burleson	Municipal
Cedar Creek-Richland Chambers System	Burleson (Johnson County)	Municipal
Cedar Creek-Richland Chambers System	Crowley	Municipal
Cedar Creek-Richland Chambers System	Dalworthington Gardens	Municipal
Cedar Creek-Richland Chambers System	Edgecliff Village	Municipal
Cedar Creek-Richland Chambers System	Everman	Municipal
Cedar Creek-Richland Chambers System	Forest Hill	Municipal
Cedar Creek-Richland Chambers System	Fort Worth	Municipal

Table J-2, continued

Source	Customer	Type of Water Use
Cedar Creek-Richland Chambers System	Grand Prairie (TRA in Tarrant)	Municipal
Cedar Creek-Richland Chambers System	Hurst	Municipal
Cedar Creek-Richland Chambers System	Keller	Municipal
Cedar Creek-Richland Chambers System	North Richland Hills	Municipal
Cedar Creek-Richland Chambers System	Richland Hills	Municipal
Cedar Creek-Richland Chambers System	Watauga	Municipal
Cedar Creek-Richland Chambers System	Bethesda WSC	Municipal
Cedar Creek-Richland Chambers System	Burleson Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	Crowley Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	Fort Worth Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	Grand Prairie Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	Keller Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	North Richland Hills Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	Richland Hills Manufacturing Sales	Manufacturing
West Fork Trinity River System	Fort Worth	Municipal
West Fork Trinity River System	Haltom City	Municipal
West Fork Trinity River System	Haslet	Municipal
West Fork Trinity River System	Lake Worth	Municipal
West Fork Trinity River System	Keller	Municipal
West Fork Trinity River System	Northlake	Municipal
West Fork Trinity River System	Saginaw	Municipal
West Fork Trinity River System	Sansom Park	Municipal
West Fork Trinity River System	Southlake	Municipal

Table J-2, continued

Source	Customer	Type of Water Use
West Fork Trinity River System	Trophy Club #1	Municipal
West Fork Trinity River System	- Roanoke	Municipal
West Fork Trinity River System	- Trophy Club	Municipal
West Fork Trinity River System	Westworth Village	Municipal
West Fork Trinity River System	White Settlement	Municipal
West Fork Trinity River System	D/FW Airport	Municipal
West Fork Trinity River System	Tarrant County MUD #1	Municipal
West Fork Trinity River System	TRA (Mosier Valley)	Municipal
West Fork Trinity River System	Westover Hills	Municipal
West Fork Trinity River System	Fort Worth Manufacturing Sales	Manufacturing
West Fork Trinity River System	Haltom City Manufacturing Sales	Manufacturing
West Fork Trinity River System	Hurst Manufacturing Sales	Manufacturing
West Fork Trinity River System	Keller Manufacturing Sales	Manufacturing
West Fork Trinity River System	Saginaw Manufacturing Sales	Manufacturing

Trinity River Authority (TRA)

The Trinity River Authority has water rights in Lake Bardwell, Lake Joe Pool, Navarro Mills Lake, and Lake Livingston. TRA also buys water from TRWD's Cedar Creek/Richland-Chambers System for its Tarrant County Water Supply Project and for its Ellis County Regional Water Supply Project. Table J-3 shows the TRA customers and their associated source(s) of TRA water. Some TRA sources have adequate supplies to meet projected demands through 2050, while others will need additional supplies before 2010.

The Trinity River Authority participates in the Grand Prairie and Coppell Water Supply Projects. The Grand Prairie Water Supply Project involves TRA buying water from Fort Worth and reselling the water to Grand Prairie. The Coppell Water Supply Project involves TRA buying water from Dallas Water Utilities and reselling it to Coppell. TRA also participates in the Dalworthington Gardens Project in which they are assisting in facility construction for Dalworthington Gardens to purchase water directly from Fort Worth.

Table J-3
Trinity River Authority (TRA) Customers and Supply Sources

Source	Customer	Type of Water Use
Cedar Creek-Richland Chambers System	Bedford	Municipal
Cedar Creek-Richland Chambers System	Colleyville	Municipal
Cedar Creek-Richland Chambers System	Euless	Municipal
Cedar Creek-Richland Chambers System	Grapevine	Municipal
Cedar Creek-Richland Chambers System	North Richland Hills	Municipal
Cedar Creek-Richland Chambers System	Bedford Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	Grapevine Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	North Richland Hills Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	Euless Manufacturing Sales	Manufacturing
Cedar Creek-Richland Chambers System	Colleyville Manufacturing Sales	Manufacturing
Ellis County Contracts from TRWD's Pipeline (Not Connected)	Ferris	Municipal
Ellis County Contracts from TRWD's Pipeline (Not Connected)	Maypearl	Municipal
Ellis County Contracts from TRWD's Pipeline (Not Connected)	Midlothian	Municipal
Ellis County Contracts from TRWD's Pipeline (Not Connected)	Palmer	Municipal
Ellis County Contracts from TRWD's Pipeline (Not Connected)	Ellis Co. WC&ID No.1	Municipal
Ellis County Contracts from TRWD's Pipeline (Not Connected)	Rockett SUD	Municipal
Ellis County Contracts from TRWD's Pipeline (Not Connected)	Avalon Water and Sewer Service	Municipal
Ellis County Contracts from TRWD's Pipeline (Not Connected)	Buena Vista-Bethel WSC	Municipal

Table J-3, continued

Source	Customer	Type of Water Use
Ellis County Contracts from TRWD's Pipeline (Not Connected)	Nash-Forreston WSC	Municipal
Ellis County Contracts from TRWD's Pipeline (Not Connected)	Italy	Municipal
Ellis County Contracts from TRWD's Pipeline (Not Connected)	Red Oak	Municipal
Lake Bardwell	Ellis Co. WCID #1 (Waxahachie)	Municipal
Lake Bardwell	Ennis	Municipal
Lake Bardwell	Ennis Manufacturing Sales	Manufacturing
Joe Pool Reservoir	Midlothian Water District	Municipal
Joe Pool Reservoir	- *Rockett SUD*	Municipal
Joe Pool Reservoir	- - Ferris (partial)	Municipal
Joe Pool Reservoir	- - Red Oak (partial)	Municipal
Joe Pool Reservoir	Grand Prairie	Municipal
Joe Pool Reservoir	Cedar Hill (not connected)	Municipal
Joe Pool Reservoir	Duncanville (not connected)	Municipal
Joe Pool Reservoir	Grand Prairie Irrigation	Municipal
Joe Pool Reservoir	Midlothian Manufacturing Sales	Manufacturing
Joe Pool Reservoir	Cedar Hill Manufacturing Sales (not connected)	Manufacturing
Joe Pool Reservoir	Duncanville Manufacturing Sales (not connected)	Manufacturing
Joe Pool Reservoir	Grand Prairie Manufacturing Sales	Manufacturing
Navarro Mills Reservoir	Corsicana	Municipal
Navarro Mills Reservoir	Dawson	Municipal
Navarro Mills Reservoir	Corsicana Manufacturing Sales	Manufacturing
Navarro Mills Reservoir	Texas Industries	Manufacturing
Lake Livingston	Livingston (TXU-Fairfield)	S.E. Power
Reuse Customers	Dallas Co. URD	Reuse
Reuse Customers	Ennis	Reuse
Reuse Customers	Waxahachie	Reuse

North Texas Municipal Water District (NTMWD)

The customers of North Texas MWD are listed in Table J-4. The known customers buying water from NTMWD customers are also included in the table. The NTMWD can currently deliver all of the district's reliable supply from Lake Lavon/Reuse system, Lake Texoma, and Lake Chapman. The contracts between NTMWD and its customer cities do not include upper or lower limits regarding amount of water that is available to each customer. The current supplies available from NTMWD are adequate to meet year 2000 demands of all their customers, but additional supplies will be needed to meet 2010 demands.

Table J-4
North Texas Municipal Water District Customers

Source	Customer	Type of Water Use
Lake Lavon/Reuse, Texoma & Chapman	Allen	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Kaufman Four One	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Crandall	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- College Mound WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Gastonia-Scurry WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Rose Hill WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Fairview	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Farmersville	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Caddo Park Water System	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- North Farmersville WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Caddo Basin SUD	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Forney	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Bedev Kesa WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- High Point WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Talty WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Markout WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Frisco	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Garland	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Kaufman	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Oak Grove	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Becker-Jiba WSC	Municipal

Table J-4, Continued

Source	Customer	Type of Water Use
Lake Lavon/Reuse, Texoma & Chapman	- North Kaufman WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Kings Creek WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Southeast Kaufman WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Lucas	Municipal
Lake Lavon/Reuse, Texoma & Chapman	McKinney	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- North Collin WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- - S. Grayson WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Danville WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Mesquite	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Murphy	Municipal
Lake Lavon/Reuse, Texoma & Chapman	North Collin WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Melissa	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- New Hope	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Parker	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Plano	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Princeton	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Culleoka WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Rockwall	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Mt Zion WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Blacklands WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- RCH WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- - Heath	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Richardson	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Rowlett	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Royse City	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- BHP WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	- Josephine	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Sachse	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Sunnyvale	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Wylie	Municipal
Lake Lavon/Reuse, Texoma & Chapman	College Mound WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Forney Lake WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Rose Hill WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Cash WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Mt. Zion WSC	Municipal

Table J-4, continued

Source	Customer	Type of Water Use
Lake Lavon/Reuse, Texoma & Chapman	Caddo Basin SUD	Municipal
Lake Lavon/Reuse, Texoma & Chapman	East Fork SUD	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Fate	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Josephine	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Lavon WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Milligan WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Nevada WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	S. Grayson WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Seis Lagos MUD	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Wylie Northeast WSC	Municipal
Lake Lavon/Reuse, Texoma & Chapman	Allen Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Collin County Other Manufacturing	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Forney Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Frisco Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Garland Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Kaufman Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	McKinney Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Mesquite Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Other Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Plano Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Richardson Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Rockwall Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Rowlett Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Royse City Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Sunnyvale Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Wylie Manufacturing Sales	Manufacturing
Lake Lavon/Reuse, Texoma & Chapman	Garland Power Sales CE Newman	S.E. Power
Lake Lavon/Reuse, Texoma & Chapman	Power Plant (Garland) Ray Olinger	S.E. Power

Dallas Water Utilities

The DWU water system is comprised of two separate water systems. The Elm Fork/Lake Grapevine System includes Ray Roberts, Lewisville, and Grapevine Reservoirs. Lake Ray Hubbard and Lake Tawakoni are operated as a system, but they are treated as separate sources due to TWDB regulations. Table J-5 lists the DWU

customers. The firm yield of DWU's currently connected supplies is less than the year 2000 demands for DWU and its customers. To meet year 2000 demands, DWU will make use of the yield available from current return flows of treated wastewater around its lakes, which amounts to 49,300 acre-feet per year. Most of the DWU customer contracts expire between the years 2012 and 2022. Other projects are currently underway to add to the reliable supply available to DWU:

- Irving and Upper Trinity RWD are constructing transmission facilities to bring Lake Chapman water to Lake Lewisville, which will make 65,700 acre-feet per year available by 2003.
- DWU is currently designing transmission facilities from Lake Fork, which will make 120,000 acre-feet available in the near future.

Table J-5
Dallas Water Utilities Customers and Supply Sources

Source	Customer	Type of Water Use
Elm Fork Trinity River System	Addison	Municipal
Elm Fork Trinity River System	Carrollton	Municipal
Elm Fork Trinity River System	Dallas	Municipal
Elm Fork Trinity River System	Denton	Municipal
Elm Fork Trinity River System	Denton (raw water)	Municipal
Elm Fork Trinity River System	Farmers Branch	Municipal
Elm Fork Trinity River System	Flower Mound	Municipal
Elm Fork Trinity River System	Grand Prairie	Municipal
Elm Fork Trinity River System	Irving	Municipal
Elm Fork Trinity River System	Lewisville	Municipal
Elm Fork Trinity River System	Lewisville (raw water)	Municipal
Elm Fork Trinity River System	The Colony	Municipal
Elm Fork Trinity River System	TRA/Coppell	Municipal
Elm Fork Trinity River System	D/FW Airport	Municipal
Elm Fork Trinity River System	Naval Air	Municipal
Elm Fork Trinity River System	Community WSC	Municipal
Elm Fork Trinity River System	UTRWD	Municipal
Elm Fork Trinity River System	- Aubrey	Municipal
Elm Fork Trinity River System	- Argyle	Municipal
Elm Fork Trinity River System	- Bartonville WSC	Municipal

Table J-5, continued

Source	Customer	Type of Water Use
Elm Fork Trinity River System	-- Bartonville	Municipal
Elm Fork Trinity River System	-- Copper Canyon	Municipal
Elm Fork Trinity River System	-- Double Oak	Municipal
Elm Fork Trinity River System	- Corinth	Municipal
Elm Fork Trinity River System	- Denton	Municipal
Elm Fork Trinity River System	- Flower Mound	Municipal
Elm Fork Trinity River System	- Highland Village	Municipal
Elm Fork Trinity River System	- Oak Point	Municipal
Elm Fork Trinity River System	- Lake Cities MUA	Municipal
Elm Fork Trinity River System	-- Hickory Creek	Municipal
Elm Fork Trinity River System	-- Lake Dallas	Municipal
Elm Fork Trinity River System	-- Shady Shores	Municipal
Elm Fork Trinity River System	- Lincoln Park	Municipal
Elm Fork Trinity River System	- Mustang WSC	Municipal
Elm Fork Trinity River System	-- Crossroads	Municipal
Elm Fork Trinity River System	-- Lincoln	Municipal
Elm Fork Trinity River System	- Denton County FWSD 1A	Municipal
Elm Fork Trinity River System	Addison Manufacturing Sales	Manufacturing
Elm Fork Trinity River System	Carrollton Manufacturing Sales	Manufacturing
Elm Fork Trinity River System	Dallas Manufacturing Sales	Manufacturing
Elm Fork Trinity River System	Farmers Branch Manufacturing Sales	Manufacturing
Elm Fork Trinity River System	Grand Prairie Manufacturing Sales	Manufacturing
Elm Fork Trinity River System	Irving Manufacturing Sales	Manufacturing
Elm Fork Trinity River System	Trinity Industries	Manufacturing
Elm Fork Trinity River System	Lewisville Manufacturing Sales	Manufacturing
Elm Fork Trinity River System	Denton Manufacturing Sales	Manufacturing
Elm Fork Trinity River System	UTRWD Manufacturing Sales	Manufacturing
Elm Fork Trinity River System	North Lake Plant (TXU)	S.E. Power
Elm Fork Trinity River System	Parkdale Plant (TXU)	S.E. Power
Elm Fork Trinity River System	Denton Power Sales	S.E. Power
Elm Fork Trinity River System	UTRWD Power Sales	S.E. Power
Lake Ray Hubbard & Lake Tawakoni	Cedar Hill	Municipal
Lake Ray Hubbard & Lake Tawakoni	- Ovilla	Municipal
Lake Ray Hubbard & Lake Tawakoni	Cockrell Hill	Municipal

Table J-5, continued

Source	Customer	Type of Water Use
Lake Ray Hubbard & Lake Tawakoni	Combine (Combine WSC)	Municipal
Lake Ray Hubbard & Lake Tawakoni	Dallas	Municipal
Lake Ray Hubbard & Lake Tawakoni	Dallas Co. WCID #6	Municipal
Lake Ray Hubbard & Lake Tawakoni	- Balch Springs	Municipal
Lake Ray Hubbard & Lake Tawakoni	De Soto	Municipal
Lake Ray Hubbard & Lake Tawakoni	Duncanville	Municipal
Lake Ray Hubbard & Lake Tawakoni	Glenn Heights	Municipal
Lake Ray Hubbard & Lake Tawakoni	- Oak Leaf	Municipal
Lake Ray Hubbard & Lake Tawakoni	Hutchins	Municipal
Lake Ray Hubbard & Lake Tawakoni	Lancaster	Municipal
Lake Ray Hubbard & Lake Tawakoni	Seagoville	Municipal
Lake Ray Hubbard & Lake Tawakoni	Cedar Hill Manufacturing Sales	Manufacturing
Lake Ray Hubbard & Lake Tawakoni	Dallas Manufacturing Sales	Manufacturing
Lake Ray Hubbard & Lake Tawakoni	De Soto Manufacturing Sales	Manufacturing
Lake Ray Hubbard & Lake Tawakoni	Duncanville Manufacturing Sales	Manufacturing
Lake Ray Hubbard & Lake Tawakoni	Hutchins Manufacturing Sales	Manufacturing
Lake Ray Hubbard & Lake Tawakoni	Lancaster Manufacturing Sales	Manufacturing
Lake Ray Hubbard & Lake Tawakoni	Dallas Power Sales	S.E. Power

County by County Discussion

Collin County

The majority of Collin County's water supply is provided by the North Texas Municipal Water District. The NTMWD System supplies water to Allen, Fairview, Farmersville, Frisco, Garland, Lucas, McKinney, Melissa, Murphy, New Hope, Parker, Plano, Princeton, Richardson, Royse City, Sachse, Wylie, county other, manufacturing, and steam electric power. The DWU Elm Fork/Lake Grapevine System serves the City of Dallas in Collin County. A small portion of the surface water is provided through irrigation local supply, stock ponds for livestock, and other surface water for mining.

The groundwater supply is composed of the Trinity and Woodbine aquifers. The Trinity Aquifer has enough water to allocate to the water user groups based on their pumping capacity or 125% of their historical groundwater use. The Trinity Aquifer

serves Anna, Celina, county other, livestock, and steam electric power. The Woodbine Aquifer is being over-pumped and the amount of water allocated to the entities using this aquifer was reduced evenly. The Woodbine Aquifer provides water to Blue Ridge, Melissa, Prosper, county other, and manufacturing. Other groundwater provides water for livestock purposes.

Cooke County

Cooke County relies primarily on groundwater. The exceptions to this rule include irrigation local supply, stock ponds for livestock, and other surface water for mining purposes.

In both the Trinity and Red River Basins, the groundwater use comes from the Trinity Aquifer. The current use in Cooke County is more than reliable supply from the Trinity Aquifer. The groundwater allocation was decreased from historical use for all user groups. The Trinity Aquifer supplies water to Gainesville, Lindsay, Muenster, Valley View, county other, irrigation, livestock, manufacturing, and mining.

Dallas County

The largest source of surface water supply in Dallas County is the DWU system. Other surface supplies include the NTMWD system, Dallas County Park Cities MUD's Lake Grapevine supply, TRA's Joe Pool Lake, TXU's Mountain Creek Lake, reuse from TRA's Central Wastewater Treatment Plant, and other sources. DWU serves water to Addison, Balch Springs, Carrollton, Cedar Hill, Cockrell Hill, Combine, Coppell, Dallas, De Soto, Duncanville, Farmers Branch, Glenn Heights, Grand Prairie, Hutchins, Irving, Lancaster, Lewisville, Ovilla, Seagoville, county other, manufacturing, and steam electric power. TRA's Joe Pool Lake supplies Grand Prairie. The NTMWD serves Garland, Mesquite, Richardson, Rowlett, Sachse, Sunnyvale, county other, manufacturing, and steam electric power. The Cities of Highland Park and University Park depend on Dallas County Park Cities MUD's Lake Grapevine supply. The City of Grapevine uses its own supply from Lake Grapevine. Grapevine also uses TRA's water supply in Tarrant County but not in Dallas County. Local surface supplies provide water for irrigation, livestock, and mining purposes. TXU's Mountain Creek Lake provides water for steam

electric purposes. Treated wastewater effluent from TRA's Central Regional Wastewater Treatment Plant effluent is used to irrigate landscaped areas and golf courses and to maintain canal and lake levels in Las Colinas in Irving.

The groundwater supply in Dallas County includes water from the Trinity and Woodbine aquifers. The Trinity Aquifer was limited by supply, and the amount allocated to the users was decreased from historical use. The Trinity Aquifer provides water for Carrollton, Cedar Hill, De Soto, Grand Prairie, Lancaster, Wilmer, county other, manufacturing, mining, and steam electric power. Use from the Woodbine Aquifer has been less than the reliable supply. The Woodbine Aquifer supplies Cedar Hill, Glenn Heights, county other, livestock, and manufacturing. Other groundwater provides water supply for county other and irrigation purposes.

Denton County

The surface water in Denton County is provided mostly by the City of Denton's yield in Lake Ray Roberts and Lake Lewisville, the DWU Elm Fork/Lake Grapevine System (partly through Upper Trinity RWD), the NTMWD system, and TRWD's West Fork system. Denton's supply is based on their water rights in Lake Ray Roberts and Lake Lewisville. DWU's Elm Fork/Lake Grapevine System serves Argyle, Aubrey, Bartonville, Copper Canyon, Corinth, Crossroads, Denton, Double Oak, Flower Mound, Hickory Creek, Highland Village, Lake Dallas, Lincoln Park, Oak Point, Shady Shores, county other, manufacturing, and steam electric power through sales to UTRWD. UTRWD supplies Sanger with water contracted from Denton. Upper Trinity RWD has the option to buy surplus water from Denton. This option is applied in the year 2000 to alleviate some of the shortage in that year. The DWU Elm Fork/Lake Grapevine System supplies water directly to Carrollton, Dallas, Denton, Flower Mound, Lewisville, The Colony, and manufacturing. The NTMWD System provides water for Frisco and Plano. The Fort Worth portion of the West Fork System supplies Northlake, Roanoke, Southlake, Trophy Club, and county other. Surface water is also obtained from irrigation local supply, stock ponds, and other surface water for mining purposes. Reuse of treated wastewater supplies water for golf course irrigation and steam electric power.

The groundwater use in Denton County is from the Trinity and Woodbine aquifers. Denton County is located in the Trinity River Basin. Both aquifers are being over-used and will not be able to maintain a reliable supply at the current rate. The water allocated to water users of these sources in Denton County was decreased to match the reliable available supply. The Trinity Aquifer provides water supply for Argyle, Aubrey, Bartonville, Carrollton, Copper Canyon, Corinth, Double Oak, Hickory Creek, Highland Village, Justin, Krugerville, Krum, Lake Dallas, Lincoln Park, Oak Point, Pilot Point, Ponder, Roanoke, Sanger, Shady Shores, The Colony, Trophy Club, county other, livestock, manufacturing, and mining. The Woodbine Aquifer supplies water to Hebron, Little Elm, Northlake, county other, irrigation, and livestock. Other groundwater is used by county other.

Ellis County

DWU, TRA, Fort Worth, TRWD, and Waxahachie provide most of the surface water used in Ellis County. The DWU systems provide water supply to Cedar Hill, Glenn Heights, Grand Prairie, Oak Leaf, and Ovilla. TRA's Joe Pool Lake supplies water to Cedar Hill, Grand Prairie, Midlothian Water District, Duncanville, county other, and manufacturing. However, only two entities have the facilities to withdraw and use the water. Parts of Ferris and Red Oak purchase water from Midlothian Water District. TRA's Lake Bardwell supplies Ennis, Waxahachie, county other, and manufacturing. TRA also has contracted with eleven entities in Ellis County to buy water from the Tarrant Regional Water District pipeline. The City of Mansfield relies on water supplied by TRWD from the Cedar Creek/Richland-Chambers System. Lake Waxahachie supplies water to the City of Waxahachie and to manufacturing. Other surface water comes from irrigation local supply and stock ponds. Waxahachie also reuses treated wastewater effluent.

Groundwater in Ellis County is pumped from the Woodbine and Trinity Aquifers. Both aquifers are limited by reliable supply in Ellis County. Thus, allocations to all groundwater users were restricted proportionally. The Woodbine Aquifer supplies water to Ferris, Glenn Heights, Italy, Maypearl, Milford, Palmer, Red Oak, county other, livestock, manufacturing, and mining. The Trinity Aquifer provides water for Cedar Hill,

Grand Prairie, Italy, Midlothian, county other, irrigation, and manufacturing. Other groundwater supplies Milford, Pecan Hill, and county other.

Fannin County

The surface water sources in Fannin County include Lake Bonham, irrigation local supply, stock ponds for livestock, local supply for mining, and Lake Texoma for power. Lake Bonham serves Bonham, county other, and manufacturing needs. Lake Texoma also provides water for the TXU Valley Power Plant.

Most of the water supply in Fannin County is based on groundwater sources. The groundwater sources include the Trinity and Woodbine Aquifers. Both aquifers have enough water available to accommodate the water supply needs of Fannin County. The Trinity Aquifer supplies water to county other and livestock. The Woodbine Aquifer provides water supply for Honey Grove, Leonard, Savoy, Trenton, county other, livestock, manufacturing, and steam electric power. Other groundwater is used for irrigation purposes.

Freestone County

The surface water supply in Freestone County consists of local reservoirs. The City of Teague has historically used water from Teague City Lake, but this source is not considered a reliable supply during a drought of record and is assumed to have an allocation of zero. The City of Wortham uses water from Wortham Lake, but this source is considered to be unreliable during a drought of record and the allocation is assumed to be zero. The City of Wortham also buys water from Mexia. Lake Fairfield and a diversion from the Trinity River (based on TRA's supply in Lake Livingston) supply the TXU Brown Power Plant. Other local surface supply sources provide water for irrigation, livestock, and mining purposes. Winkler WSC buys surface water from TRWD's Cedar Creek/Richland-Chambers System.

The majority of the water user groups in Freestone County rely on groundwater. The Carrizo-Wilcox, Queen City, and other aquifers supply the county with groundwater and are not limited by water availability. The Carrizo-Wilcox Aquifer provides water for

Fairfield, Teague, county other, irrigation, livestock, mining, and steam electric power. The Queen City and other aquifers supply water for livestock purposes.

Grayson County

Some surface water is used in Grayson County. The City of Denison relies completely on surface water from Lake Texoma and Lake Randell. The City of Pottsboro buys some surface water from Denison's share of Lake Randell. The City of Sherman buys surface water from the Greater Texoma Utility Authority's share of Lake Texoma. The categories of county other and manufacturing also use water from Lake Texoma. Irrigation local supply and livestock depend on local surface waters. Some of the water used for manufacturing comes from Lake Texoma and Lake Randell. Reuse water is used for irrigating a Denison golf course.

The majority of the water user groups in Grayson County rely on groundwater to meet their water needs. Both the Trinity and Woodbine Aquifers are currently used beyond their long-term, dependable supplies. The Trinity Aquifer provides water to Bells, Collinsville, Gunter, Sherman, Tioga, Van Alstyne, Whitesboro, and county other. The Trinity Aquifer also provides water for irrigation and mining purposes. The Woodbine Aquifer supplies water to Bells, Howe, Luella, Pottsboro, Sherman, Southmayd, Tom Bean, Van Alstyne, Whitewright, and county other. Livestock, manufacturing, and mining also use water from the Woodbine Aquifer. Other aquifer also supplies county other.

Henderson County

Several surface water sources are used in Henderson County. The City of Athens uses water from Lake Athens. Lake Athens water is also used for manufacturing purposes. The Cedar Creek/Richland-Chambers system provides water to Gun Barrel City, Mabank, Payne Springs, Seven Points, Tool, Trinidad, and county other. Trinidad City Lake supplies water to the City of Trinidad. Local surface water supplies provide water for irrigation, livestock, and mining. The TXU Forest Grove steam electric power plant has contracts to obtain water from the Cedar Creek/Richland-Chambers system and

water rights to use Lake Forest Grove. Lake Trinidad also provides water for steam electric power purposes.

Groundwater supplies are used fairly extensively, but the sources are not currently being pumped beyond their dependable yield. The Carrizo-Wilcox Aquifer supplies water to Athens, Eustace, Malakoff, and county other. Irrigation, livestock, manufacturing, mining, and steam electric power also rely on the Carrizo-Wilcox Aquifer. Livestock also uses water from the Queen City Aquifer. Other groundwater supplies county other and livestock purposes.

Jack County

The two cities with populations greater than 500 depend on surface water. Bryson uses water from Lake Bryson. Jacksboro uses water from their own rights in the Lost Creek/Jacksboro system and from upstream diversion under TRWD's Lake Bridgeport. County other uses some water from the Lost Creek/Jacksboro system. Local surface water supplies provide water to irrigation, livestock, and mining purposes. Some water is being reused by Jacksboro for irrigation purposes.

Jack County has enough groundwater supplies to meet projected future demands for groundwater. County other depends on the Trinity Aquifer. Irrigation, livestock, and mining depend on other groundwater.

Kaufman County

Almost all of Kaufman County uses surface water supply. The DWU's Lake Ray Hubbard and Lake Tawakoni provide water to Combine and Dallas. The NTMWD System provides water to Crandall, Forney, Kaufman, Oak Grove, county other, and manufacturing. The TRWD Cedar Creek/Richland-Chambers system supplies water to Kemp, Mabank, and county other. Lake Tawakoni provides water to Terrell and county other. Lake Terrell supplies water to the City of Terrell and the manufacturing category. Local water supplies are used to supply water for irrigation, livestock, and mining purposes. Reuse water is being used for irrigation purposes by a golf course and a country club.

Very little groundwater is used in Kaufman County. Other groundwater is used for county other. The water in the Nacatoch Aquifer is used for irrigation and livestock. The Woodbine Aquifer provides water for livestock purposes.

Navarro County

The majority of the cities in Navarro County rely on surface water for water supply. TRA's Navarro Mills Reservoir provides water to Blooming Grove, Corsicana, Dawson, Frost, Kerens, Rice, county other, and manufacturing, mostly by resale from Corsicana. Lake Halbert supplies water to Corsicana, county other, and manufacturing. Corsicana also has water rights in Richland-Chambers Reservoir, but the infrastructure is not in place to use this water. The TRWD Cedar Creek/Richland-Chambers system provides water to county other. Irrigation and livestock users rely on local surface waters.

Groundwater is also used in Navarro County, although in much smaller proportions than surface water use. The City of Frost uses the Woodbine Aquifer as a backup to their surface water supply. County other uses the Woodbine and Trinity Aquifers. The Carrizo-Wilcox Aquifer is used for livestock and mining. Livestock and mining also use water from the Nacatoch Aquifer. Other groundwater is used for livestock and manufacturing supplies.

Parker County

The surface water supply in Parker County is provided mostly by Tarrant Regional Water District systems. The TRWD West Fork System supplies Azle, Briar, Reno, Springtown, and county other. The TRWD portion of Lake Bridgeport supplies water to county other. Mineral Wells obtains its water from Lake Palo Pinto in Region G, which also supplies some water for county other, and manufacturing. Weatherford receives water from Lake Weatherford. Lake Weatherford also provided water for manufacturing and steam electric power purposes. Local surface water supplies provide water for irrigation, livestock, and mining. Lake Possum Kingdom in Region G provides water for mining purposes in Parker County.

The Trinity, Woodbine, and other groundwater in the Trinity River Basin of Parker County are all being over-pumped. Therefore, the amount of water allocated from these

sources to users is decreased from their historical use. The Trinity Aquifer in the Trinity Basin provides water to Aledo, Hudson Oaks, Reno, Springtown, Willow Park, county other, irrigation, livestock, manufacturing, and mining. The Woodbine Aquifer in the Trinity Basin supplies county other. Other groundwater in the Trinity Basin supplies Anetta and county other.

The Trinity, Woodbine, and other groundwater in the Brazos Basin of Parker County do not have problems with the availability of water based on their current pumping capabilities. The Trinity Aquifer in the Brazos Basin supplies county other, irrigation, livestock, and manufacturing. The Woodbine Aquifer in the Brazos Basin provides water for county other. Other groundwater in the Brazos Basin supplies water to county other.

Rockwall County

The surface water in Rockwall County is supplied mostly by NTMWD. The NTMWD System provides water to Heath, Rockwall, Rowlett, Royse City, Wylie, and county other. The NTMWD System also supplies water for manufacturing purposes. DWU's Lake Ray Hubbard and Lake Tawakoni supply the City of Dallas. Local surface water supplies provide water for livestock and mining purposes.

The groundwater supply in Rockwall County is not limited by aquifer availability. All of the groundwater comes from other groundwater, which supplies county other and livestock.

Tarrant County

The majority of the surface water is provided by TRWD and the City of Fort Worth, which buys all of its water from TRWD. The TRA buys water from TRWD's Cedar Creek/Richland-Chambers System. The TRWD Cedar Creek/Richland-Chambers System provides water to Arlington, Benbrook, Blue Mound, Fort Worth, Mansfield, county other, manufacturing, and steam electric power. Fort Worth in turn uses the Cedar Creek/Richland-Chambers System to provide water to Burleson, Crowley, Dalworthington Gardens, Edgecliff Village, Everman, Forest Hill, Hurst, Keller, North Richland Hills, Richland Hills, Watauga, county other, and manufacturing. TRA sells water from its portion of Cedar Creek/Richland-Chambers water to Bedford, Colleyville,

Euless, Grapevine, North Richland Hills, county other, and manufacturing. Arlington sells a small part of its water supply from Cedar Creek/Richland-Chambers System to the City of Mansfield. The TRWD West Fork System supplies water to Azle, Briar, Fort Worth, River Oaks, county other, manufacturing, mining, and steam electric power. The Fort Worth portion of the West Fork System serves Haltom City, Haslet, Keller, Lake Worth Village, Saginaw, Sansom Park Village, Southlake, Westworth Village, White Settlement, county other, and manufacturing. Lake Benbrook supplies Benbrook, Fort Worth, county other, and manufacturing. DWU supplies treated water to Grand Prairie, and part of Grand Prairie is in Tarrant County. Lake Grapevine supplies water to Grapevine and county other. Lake Arlington is used for terminal storage in TRWD's system which limits its reliable supply. Local surface waters provide supply to irrigation, mining, and livestock. Reuse is used for manufacturing purposes and for irrigating golf courses.

All of the groundwater in Tarrant County is in the Trinity Basin. The available supply allocated from both the Trinity and Woodbine Aquifers is limited by aquifer supply. The Trinity Aquifer provides water for Bedford, Benbrook, Colleyville, Crowley, Dalworthington Gardens, Euless, Everman, Grand Prairie, Haslet, Hurst, Kennedale, Lake Worth Village, North Richland Hills, Pantego, Pelican Bay, Richland Hills, Sansom Park Village, White Settlement, county other, irrigation, livestock, manufacturing, and steam electric power. The Woodbine and other aquifers supply water to county other.

Wise County

The surface water supply in Wise County is based mainly on TRWD supplies. The TRWD West Fork System supplies water to Briar. TRWD's Lake Bridgeport provides water for Bridgeport, Chico, Decatur, and county other. Irrigation, manufacturing, and mining water needs are met by other local supply and Lake Bridgeport. Livestock water use depends local stock ponds. Steam electric power is supplied by TRWD's Bridgeport Local supply.

All of the groundwater in Wise County is limited by available supply to less than what has been used historically. The Trinity Aquifer supplies Alvord, Boyd, Chico,

Newark, Rhome, county other, irrigation, livestock, and mining. Other groundwater supplies Aurora and manufacturing.

Johnson County

Johnson County is located in Region G just south of Tarrant County. Region C is responsible for supplying surface water to the portions of Burleson and Mansfield located in Region G. The City of Burleson relies on Fort Worth's share of Cedar Creek/Richland-Chambers water supply. TRWD supplies Cedar Creek/Richland-Chambers water to the City of Mansfield. For both cities, the amount of surface water allocated meets the projected demands.

Key to Texas Water Development Board Codes in TWDB Table 5

County Number Code

The Texas Water Development Board (TWDB) assigned county code numbers to every county in Texas. The following counties are included in Region C (Johnson County is actually in Region G, but Region C is responsible for supplying two cities with surface water):

43	Collin
49	Cooke
57	Dallas
61	Denton
70	Ellis
74	Fannin
81	Freestone
91	Grayson
107	Henderson
119	Jack
126	Johnson
129	Kaufman
175	Navarro
184	Parker
199	Rockwall

220	Tarrant
249	Wise

Basin Numbers

The TWDB also assigned numbers to correspond to the various river basins in Texas. The following are the river basins in Region C:

2	Red River Basin
3	Sulphur River Basin
5	Sabine River Basin
6	Neches River Basin
8	Trinity River Basin
12	Brazos River Basin

Major Water Provider Numbers

The TWDB assigned identification numbers for all of the entities determined to be Major Water Providers within their regions. The following are the five Major Water Providers in Region C:

160	North Texas Municipal Water District
171	Trinity River Authority
190	Tarrant Regional Water District
206800	Dallas Water Utilities
298900	City of Fort Worth

Regional Water Planning Groups

The TWDB divided the State of Texas into 16 regions in Senate Bill One (SB1) for the purpose of water planning. The following are the 16 SB1 regions:

A	Panhandle Water Planning Group
B	Region B Water Planning Group
C	Region C Water Planning Group
D	North East Texas Regional Water Planning Group

E	Far West Texas Water Planning Group
F	Region F Water Planning Group
G	Brazos G Water Planning Group
H	Region H Water Planning Group
I	East Texas Water Planning Group
J	Plateau Water Planning Group
K	Lower Colorado Water Planning Group
L	South Central Texas Water Planning Group
M	Rio Grande Water Planning Group
N	Coastal Bend Water Planning Group
O	Llano-Estacado Water Planning Group
P	Lavaca Water Planning Group

Specific Source Identifier

The TWDB has developed an encoding theme for the various water supply sources throughout the State. Water supply systems were assigned identification numbers by the TWDB. Reservoirs and reuse projects were also assigned codes based on the number of the river basin in which they are located and the TWDB assigned location along that river or stream. The Irrigation Local Supply code is a combination of the county number and the TWDB code "996". The Livestock Local Supply and Other Local Supply begin with the basin number in which the supply is located followed by the code "997" or "999", respectively. The groundwater supplies are encoded with the county number followed by the aquifer code. The following are the specific source identifiers used in the Region C version of TWDB Table 5:

02220	Hubert H Moss Lake
020C0	Lake Texoma (NTMWD)
02230P	Lake Texoma
02240	Lake Randall
02270	Lake Bonham
02997	Livestock Local Supply (Red Basin)
02999	Other Local Supply (Red Basin)
030C0	Chapman (NTMWD)
03997	Livestock Local Supply (Sulphur Basin)
04328	Trinity Aquifer (Collin County)
04329	Woodbine Aquifer (Collin County)

043996	Irrigation Local Supply (Collin County)
04928	Trinity Aquifer (Cooke County)
049996	Irrigation Local Supply (Cooke County)
05010P	Lake Tawakoni
05722	Other Groundwater (Dallas County)
05728	Trinity Aquifer (Dallas County)
05729	Woodbine Aquifer (Dallas County)
057996	Irrigation Local Supply (Dallas County)
05997	Livestock Local Supply (Sabine Basin)
05999	Other Local Supply (Sabine Basin)
06010	Lake Athens
06122	Other Groundwater (Denton County)
06128	Trinity Aquifer (Denton County)
06129	Woodbine Aquifer (Denton County)
061996	Irrigation Local Supply (Denton County)
07022	Other Groundwater (Ellis County)
07028	Trinity Aquifer (Ellis County)
07029	Woodbine Aquifer (Ellis County)
070996	Irrigation Local Supply (Ellis County)
07422	Other Groundwater (Fannin County)
07428	Trinity Aquifer (Fannin County)
07429	Woodbine Aquifer (Fannin County)
074996	Irrigation Local Supply (Fannin County)
080C0	Lake Lavon/Reuse
08010P	Bridgeport Local Supply
08050	Lake Weatherford
08060	Lake Benbrook
08070	Lake Grapevine
08100P	Lake Ray Roberts
08110	Carrizo-Wilcox Aquifer (Freestone County)
08110P	Lake Lewisville
08120	Lake Arlington
08122	Other Groundwater (Freestone County)
08124	Queen City Aquifer (Freestone County)
08130	Joe Pool Lake
08140	Mountain Creek Lake
08180	Lake Terrell
081996	Irrigation Local Supply (Freestone County)

08200	Lake Waxahachie
08210	Lake Bardwell
08220	Lake Halbert
08230	Navarro Mills Reservoir
08290	Lost Creek/Jacksboro System
08390	Lake Trinidad
08400	Livingston (TXU-Fairfield)
08410	Forest Grove
08420	Lake Fairfield
08640	Lake Clark
086C0	West Fork less Bridgeport Local
086D0	Elm Fork/Lake Grapevine System
08190P	Cedar Creek/Richland-Chambers System
08700	Wortham Lake
08997	Livestock Local Supply
08999	Other Local Supply (Trinity Basin)
09122	Other Groundwater (Grayson County)
09128	Trinity Aquifer (Grayson County)
09129	Woodbine Aquifer (Grayson County)
091996	Irrigation Local Supply (Grayson County)
10710	Carrizo-Wilcox Aquifer Henderson County)
10722	Other Groundwater (Henderson County)
10724	Queen City Aquifer (Henderson County)
107996	Irrigation Local Supply (Henderson County)
11922	Other Groundwater (Jack County)
11928	Trinity Aquifer (Jack County)
119996	Irrigation Local Supply (Jack County)
12150	Possum Kingdom (BRA)
12160	Lake Palo Pinto
12170	Lake Mineral Wells
12860	Teague City Lake
12870	Lake Bryson
12920	Nacatoch Aquifer (Kaufman County)
12922	Other Groundwater (Kaufman County)
12929	Woodbine Aquifer (Kaufman County)
12997	Livestock Local Supply (Kaufman County)
12999	Other Local Supply (Kaufman County)
129996	Irrigation Local Supply (Kaufman County)

17510	Carrizo-Wilcox Aquifer (Navarro County)
17520	Nacatoch Aquifer (Navarro County)
17522	Other Groundwater (Navarro County)
17528	Trinity Aquifer (Navarro County)
17529	Woodbine Aquifer (Navarro County)
175996	Irrigation Local Supply (Navarro County)
18422	Other Groundwater (Parker County)
18428	Trinity Aquifer (Parker County)
18429	Woodbine Aquifer (Parker County)
184996	Irrigation Local Supply (Parker County)
19922	Other Groundwater (Rockwall County)
22022	Other Groundwater (Tarrant County)
22028	Trinity Aquifer (Tarrant County)
22029	Woodbine Aquifer (Tarrant County)
220996	Irrigation Local Supply (Tarrant County)
24922	Other Groundwater (Wise County)
24928	Trinity Aquifer (Wise County)
249996	Irrigation Local Supply (Wise County)
35081	Indirect Reuse
36055	Reuse (Grayson County)
36132	Reuse (Denton County)
36142	Reuse (Kaufman County)
36146	Reuse (Tarrant County)
36147	Reuse (Rockwall County)
36147	Reuse (Tarrant County)
A08195	Trinidad City Lake

TWDB Table 5
Supply Available by Water User Group

A		B		C	D	E	F		G		H	I	J	K	L	M	N		O	P	Q	R	S	T	
Water User Group	USE	Water User Group Identifier	Partial County	Regional Water Planning Group Letter	Sequence Number	City Number	County Number	COUNTY NAME	Basin Number	BASIN NAME	Type of Water Supply Source	Major Water Provider Number (TWDB Alpha Number)	Location of Supply Source (RWPG Letter)	Location of Groundwater Supply Source (County Number)	Location of Supply Source (Basin Number)	Specific Source Identifier	Specific Source Name	PURCHASED FROM	Available Supply for the Year 2000 (Ac-Ft)	Available Supply for the Year 2010 (Ac-Ft)	Available Supply for the Year 2020 (Ac-Ft)	Available Supply for the Year 2030 (Ac-Ft)	Available Supply for the Year 2040 (Ac-Ft)	Available Supply for the Year 2050 (Ac-Ft)	Comments
COLLIN COUNTY																									
Allen	MUN	30012000		C	12	8	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	6,119	10,222	10,636	9,956	8,768	8,019	Based on NTMWD supply
Allen	MUN	30012000		C	12	8	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	3,382	5,720	6,021	5,711	5,098	4,727	Based on NTMWD supply
Allen	MUN	30012000		C	12	8	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	2,371	3,936	4,113	3,872	3,429	3,155	Based on NTMWD supply
Anna	MUN	30029000		C	29	813	43	Collin	8	Trinity	01		C	43	8	04328	Trinity Aquifer	SG	121	121	121	121	121	121	Based on pump capacity.
Anna	MUN	30029000		C	29	813	43	Collin	8	Trinity	01		C	43	8	04329	Woodbine Aquifer	SG	133	133	133	133	133	133	1 new well in near future. Available supply limited by aquifer supply.
Blue Ridge	MUN	30094000		C	94	829	43	Collin	8	Trinity	01		C	43	8	04329	Woodbine Aquifer	SG	82	82	82	82	82	82	Not able to get any information. Available supply limited by aquifer supply.
Celina	MUN	30154000		C	154	103	43	Collin	8	Trinity	01		C	43	8	04328	Trinity Aquifer	SG	206	206	206	206	206	206	Based on pump capacity. Have contracted for surface water in 3-5 yrs from UTRWD, as soon as pipeline can be completed.
Celina	MUN	30154000		C	154	103	43	Collin	8	Trinity	01		C	43	8	04329	Woodbine Aquifer	SG	0	0	0	0	0	0	No historical use in Woodbine. Have contracted for surface water in 3-5 yrs from UTRWD, as soon as pipeline can be completed.
Dallas	MUN	30227000	P	C	227	151	43	Collin	8	Trinity	02	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	7,352	7,686	9,368	12,058	12,458	13,131	Based on DWU supply.
Dallas	MUN	30227000	P	C	227	151	43	Collin	8	Trinity	02	206800	C		8	08170	Lake Ray Hubbard	DWU	0	0	0	0	0	0	Based on DWU supply.
Dallas	MUN	30227000	P	C	227	151	43	Collin	8	Trinity	02	206800	D		5	05010	Tawakoni (Dallas)	DWU	0	0	0	0	0	0	Based on DWU supply.
Fairview	MUN	30291000		C	291	772	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	459	523	460	443	420	433	Based on NTMWD supply.
Fairview	MUN	30291000		C	291	772	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	254	292	261	254	244	255	Based on NTMWD supply.
Fairview	MUN	30291000		C	291	772	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	178	201	178	172	164	170	Based on NTMWD supply.
Farmersville	MUN	30294000		C	294	199	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	336	291	300	295	285	287	Based on NTMWD supply.
Farmersville	MUN	30294000		C	294	199	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	186	163	170	169	166	169	Based on NTMWD supply.
Farmersville	MUN	30294000		C	294	199	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	130	112	116	115	112	113	Based on NTMWD supply.
Frisco	MUN	30319000	P	C	319	221	43	Collin	8	Trinity	01		C	43	8	04328	Trinity Aquifer	SG	0	0	0	0	0	0	No GW use - phone survey.
Frisco	MUN	30319000	P	C	319	221	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	5,811	8,944	11,509	14,827	17,766	20,096	Based on NTMWD supply.

A		B		C	D	E	F		G		H	I	J	K	L	M	N		O	P	Q	R	S	T	
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Frisco	MUN	30319000	P	C	319	221	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	3,212	5,005	6,515	8,506	10,330	11,845	Based on NTMWD supply.
Frisco	MUN	30319000	P	C	319	221	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	2,252	3,444	4,451	5,766	6,949	7,907	Based on NTMWD supply.
Garland	MUN	30334000	P	C	334	230	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	3	1	2	2	2	2	Based on NTMWD supply.
Garland	MUN	30334000	P	C	334	230	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	1	1	1	1	1	1	Based on NTMWD supply.
Garland	MUN	30334000	P	C	334	230	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	1	1	1	1	1	1	Based on NTMWD supply.
Lucas	MUN	30547000		C	547	718	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	424	414	356	370	362	369	Based on NTMWD supply.
Lucas	MUN	30547000		C	547	718	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	234	232	201	212	211	217	Based on NTMWD supply.
Lucas	MUN	30547000		C	547	718	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	164	159	137	144	142	145	Based on NTMWD supply.
McKinney	MUN	30577000		C	577	379	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	9,105	14,497	16,688	18,413	19,426	20,480	Based on NTMWD supply.
McKinney	MUN	30577000		C	577	379	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	5,033	8,112	9,447	10,563	11,296	12,072	Based on NTMWD supply.
McKinney	MUN	30577000		C	577	379	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	3,528	5,582	6,453	7,161	7,598	8,058	Based on NTMWD supply.
Melissa	MUN	30584000		C	584	914	43	Collin	8	Trinity	01		C	43	8	04329	Woodbine Aquifer	SG	60	60	60	60	60	60	Available supply limited by aquifer supply.
Melissa	MUN	30584000		C	584	914	43	Collin	8	Trinity	03A	160	C		8	080C0	Lake Lavon/Reuse	North Collins WSC	28	47	43	43	37	34	Based on North Collin WSC (NTMWD) supply.
Melissa	MUN	30584000		C	584	914	43	Collin	8	Trinity	03A	160	C		2	020C0	Lake Texoma	North Collins WSC	15	27	24	25	22	20	Based on North Collin WSC (NTMWD) supply.
Melissa	MUN	30584000		C	584	914	43	Collin	8	Trinity	03A	160	D		3	030C0	Chapman (NTMWD)	North Collins WSC	11	18	17	17	15	13	Based on North Collin WSC (NTMWD) supply.
Murphy	MUN	30619000		C	619	724	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	445	827	948	937	902	896	Based on NTMWD supply.
Murphy	MUN	30619000		C	619	724	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	246	463	537	537	524	528	Based on NTMWD supply.
Murphy	MUN	30619000		C	619	724	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	172	318	367	364	353	353	Based on NTMWD supply.
New Hope	MUN	30631000		C	631	923	43	Collin	8	Trinity	03A	160	C		8	080C0	Lake Lavon/Reuse	North Collins WSC	56	40	32	27	24	22	Based on North Collin WSC (NTMWD) supply.
New Hope	MUN	30631000		C	631	923	43	Collin	8	Trinity	03A	160	C		2	020C0	Lake Texoma	North Collins WSC	31	23	18	16	14	13	Based on North Collin WSC (NTMWD) supply.
New Hope	MUN	30631000		C	631	923	43	Collin	8	Trinity	03A	160	D		3	030C0	Chapman (NTMWD)	North Collins WSC	22	16	12	11	9	9	Based on North Collin WSC (NTMWD) supply.
Parker	MUN	30679000		C	679	733	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	455	870	1,241	1,738	2,182	2,557	Based on NTMWD supply.
Parker	MUN	30679000		C	679	733	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	252	487	703	997	1,269	1,507	Based on NTMWD supply.
Parker	MUN	30679000		C	679	733	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	176	335	480	676	853	1,006	Based on NTMWD supply.
Plano	MUN	30704000	P	C	704	472	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	40,133	36,892	28,926	24,231	20,889	18,857	Based on NTMWD supply.

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Plano	MUN	30704000	P	C	704	472	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	22,184	20,644	16,376	13,900	12,146	11,115	Based on NTMWD supply.
Plano	MUN	30704000	P	C	704	472	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	15,551	14,206	11,186	9,423	8,170	7,420	Based on NTMWD supply.
Princeton	MUN	30724000		C	724	487	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	256	292	326	317	296	278	Based on NTMWD supply.
Princeton	MUN	30724000		C	724	487	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	141	163	185	182	172	164	Based on NTMWD supply.
Princeton	MUN	30724000		C	724	487	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	99	112	126	123	116	109	Based on NTMWD supply.
Prosper	MUN	30726000		C	726	799	43	Collin	8	Trinity	01		C	43	8	04329	Woodbine Aquifer	SG	229	229	229	229	229	229	Available supply limited by aquifer supply.
Richardson	MUN	30747000	P	C	747	498	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	2,154	1,705	1,474	1,359	1,263	1,228	Based on NTMWD supply.
Richardson	MUN	30747000	P	C	747	498	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	1,190	954	834	779	734	724	Based on NTMWD supply.
Richardson	MUN	30747000	P	C	747	498	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	835	657	570	528	494	483	Based on NTMWD supply.
Royse City	MUN	30779000	P	C	779	522	43	Collin	5	Sabine	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	36	40	43	44	44	46	Based on NTMWD supply.
Royse City	MUN	30779000	P	C	779	522	43	Collin	5	Sabine	03	160	C		2	020C0	Lake Texoma	NTMWD	20	22	25	25	26	27	Based on NTMWD supply.
Royse City	MUN	30779000	P	C	779	522	43	Collin	5	Sabine	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	14	15	17	17	17	18	Based on NTMWD supply.
Sachse	MUN	30784000	P	C	784	742	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	32	43	40	38	38	39	Based on NTMWD supply.
Sachse	MUN	30784000	P	C	784	742	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	18	24	22	22	22	23	Based on NTMWD supply.
Sachse	MUN	30784000	P	C	784	742	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	12	16	15	15	15	15	Based on NTMWD supply.
Wylie	MUN	30991000	P	C	991	669	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	1,344	1,388	1,566	1,941	2,304	2,599	Based on NTMWD supply.
Wylie	MUN	30991000	P	C	991	669	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	743	777	886	1,114	1,340	1,532	Based on NTMWD supply.
Wylie	MUN	30991000	P	C	991	669	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	521	535	606	755	901	1,023	Based on NTMWD supply.
County -Other	MUN	30996043		C	996	757	43	Collin	5	Sabine	01		C	43	5	04328	Trinity Aquifer	GW	125	125	125	125	125	125	Based on 125% of historical use
County -Other	MUN	30996043		C	996	757	43	Collin	5	Sabine	01		C	43	5	04329	Woodbine Aquifer	GW	94	94	94	94	94	94	Available supply limited by aquifer supply.
County -Other	MUN	30996043		C	996	757	43	Collin	5	Sabine	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	0	0	385	471	524	443	Based on NTMWD supply
County -Other	MUN	30996043		C	996	757	43	Collin	5	Sabine	03	160	C		2	020C0	Lake Texoma	NTMWD	0	0	218	270	305	261	Based on NTMWD supply
County -Other	MUN	30996043		C	996	757	43	Collin	5	Sabine	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	0	0	149	183	205	174	Based on NTMWD supply
County -Other	MUN	30996043		C	996	757	43	Collin	8	Trinity	01		C	43	8	04328	Trinity Aquifer	GW	1,349	1,349	1,349	1,349	1,349	1,349	Based on 125% of max. historical use.
County -Other	MUN	30996043		C	996	757	43	Collin	8	Trinity	01		C	43	8	04329	Woodbine Aquifer	GW	1,019	1,019	1,019	1,019	1,019	1,019	Available supply limited by aquifer supply.
County -Other	MUN	30996043		C	996	757	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	0	0	7,262	8,194	8,736	7,325	Based on NTMWD supply
County -Other	MUN	30996043		C	996	757	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	0	0	4,111	4,700	5,080	4,317	Based on NTMWD supply

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County -Other	MUN	30996043		C	996	757	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	0	0	2,808	3,186	3,417	2,882	Based on NTMWD supply
Irrigation	IRR	31004043		C	1004	1004	43	Collin	8	Trinity	03		C		8	043996	Irrigation Local Supply	IRLS	1,017	1,017	1,017	1,017	1,017	1,017	Based on IRLS data.
Livestock	STK	31005043		C	1005	1005	43	Collin	5	Sabine	01		C	43	5	04322	Other Aquifer	GW	5	5	5	5	5	5	Based on 125% of historical use.
Livestock	STK	31005043		C	1005	1005	43	Collin	5	Sabine	00		C		5	05997	Livestock Local Supply	SW	35	35	35	35	35	35	Based on max. historical use.
Livestock	STK	31005043		C	1005	1005	43	Collin	8	Trinity	01		C	43	8	04322	Other Aquifer	GW	134	134	134	134	134	134	Based on 125% of max. historical use.
Livestock	STK	31005043		C	1005	1005	43	Collin	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	967	967	967	967	967	967	Based on max. historical use.
Manufacturing	MFG	31001043		C	1001	1001	43	Collin	8	Trinity	01		C	43	8	04329	Woodbine Aquifer	GW	215	215	215	215	215	215	Available supply limited by aquifer supply.
Manufacturing	MFG	31001043		C	1001	1001	43	Collin	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	1,621	1,080	970	913	903	921	Based on NTMWD supply.
Manufacturing	MFG	31001043		C	1001	1001	43	Collin	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	896	604	549	524	525	543	Based on NTMWD supply.
Manufacturing	MFG	31001043		C	1001	1001	43	Collin	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	628	416	375	355	353	362	Based on NTMWD supply.
Mining	MIN	31003043		C	1003	1003	43	Collin	8	Trinity	00		C		8	08999	Other Local Supply	SW	349	349	349	349	349	349	Based on max. historical use.
Steam Electric Power	PWR	31002043		C	1002	1002	43	Collin	8	Trinity	01		C	43	8	04328	Trinity Aquifer	GW	1,023	1,023	1,023	1,023	1,023	1,023	Based on 125% of max. historical use.
Steam Electric Power	PWR	31002043		C	1002	1002	43	Collin	8	Trinity	00	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	2,365	1,755	1,412	1,206	1,048	946	Ray Oliver S.E. Plant (Garland)
Steam Electric Power	PWR	31002043		C	1002	1002	43	Collin	8	Trinity	00	160	C		2	020C0	Lake Texoma	NTMWD	1,307	982	800	692	609	557	Ray Oliver S.E. Plant (Garland)
Steam Electric Power	PWR	31002043		C	1002	1002	43	Collin	8	Trinity	00	160	D		3	030C0	Chapman (NTMWD)	NTMWD	328	676	546	469	410	372	Ray Oliver S.E. Plant (Garland)
COOKE COUNTY																									
Gainesville	MUN	30327000		C	327	225	49	Cooke	8	Trinity	01		C	49	8	04928	Trinity Aquifer	SG	1,565	1,565	1,565	1,297	1,297	1,297	Possibly drill 1 more well. Have water right in Lake Moss for 1 MGD which will begin using in 2000. Available supply limited by aquifer supply.
Gainesville	MUN	30327000		C	327	225	49	Cooke	8	Trinity	00		C		2	02220	Hubert H Moss Lake	SS	0	0	0	0	0	0	Moss is not yet connected
Lindsay	MUN	30525000		C	525	899	49	Cooke	8	Trinity	01		C	49	8	04928	Trinity Aquifer	SG	60	60	60	50	50	50	Available supply limited by aquifer supply.
Muenster	MUN	30615000		C	615	418	49	Cooke	8	Trinity	01		C	49	8	04928	Trinity Aquifer	SG	210	210	210	174	174	174	Will go to SW in 2010 when reservoir is ready (500 AF/Yr). Available supply limited by aquifer supply.

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Valley View	MUN	30923000		C	923	981	49	Cooke	8	Trinity	03A		C	49	8	04928	Trinity Aquifer	Bolivar WSC	39	39	39	32	32	32	Buy all water from Bolivar WSC. Available supply limited by aquifer supply.
County -Other	MUN	30996049		C	996	757	49	Cooke	2	Red	01		C	49	2	04928	Trinity Aquifer	GW	148	148	148	123	123	123	Available supply limited by aquifer supply.
County -Other	MUN	30996049		C	996	757	49	Cooke	8	Trinity	01		C	49	8	04928	Trinity Aquifer	GW	1,156	1,156	1,156	958	958	958	Available supply limited by aquifer supply.
Irrigation	IRR	31004049		C	1004	1004	49	Cooke	2	Red	01		C	49	2	04928	Trinity Aquifer	GW	132	132	132	109	109	109	Available supply limited by aquifer supply.
Irrigation	IRR	31004049		C	1004	1004	49	Cooke	2	Red	00		C		2	049996	Irrigation Local Supply	IRLS	23	23	23	23	23	23	Based on IRLS data.
Irrigation	IRR	31004049		C	1004	1004	49	Cooke	8	Trinity	01		C	49	8	04928	Trinity Aquifer	GW	55	55	55	46	46	46	Available supply limited by aquifer supply.
Irrigation	IRR	31004049		C	1004	1004	49	Cooke	8	Trinity	00		C		8	049996	Irrigation Local Supply	IRLS	70	70	70	70	70	70	Based on IRLS data.
Livestock	STK	31005049		C	1005	1005	49	Cooke	2	Red	01		C	49	2	04928	Trinity Aquifer	GW	236	236	236	195	195	195	Available supply limited by aquifer supply.
Livestock	STK	31005049		C	1005	1005	49	Cooke	2	Red	00		C		2	02997	Livestock Local Supply	SW	377	377	377	377	377	377	Based on max. historical use.
Livestock	STK	31005049		C	1005	1005	49	Cooke	8	Trinity	01		C	49	8	04928	Trinity Aquifer	GW	453	453	453	375	375	375	Available supply limited by aquifer supply.
Livestock	STK	31005049		C	1005	1005	49	Cooke	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	810	810	810	810	810	810	Based on max. historical use.
Manufacturing	MFG	31001049		C	1001	1001	49	Cooke	8	Trinity	01		C	49	8	04928	Trinity Aquifer	GW	205	205	205	170	170	170	Available supply limited by aquifer supply.
Mining	MIN	31003049		C	1003	1003	49	Cooke	2	Red	01		C	49	2	04928	Trinity Aquifer	GW	153	153	153	127	127	127	Available supply limited by aquifer supply.
Mining	MIN	31003049		C	1003	1003	49	Cooke	8	Trinity	01		C	49	8	04928	Trinity Aquifer	GW	117	117	117	97	97	97	Available supply limited by aquifer supply.
Mining	MIN	31003049		C	1003	1003	49	Cooke	8	Trinity	00		C		8	08999	Other Local Supply	SW	237	237	237	237	237	237	Based on max. historical use.
DALLAS COUNTY																									
Addison	MUN	30003000		C	3	673	57	Dallas	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	6,311	7,989	0	0	0	0	Based on DWU supply. Contract expires in 2012.
Balch Springs	MUN	30049000		C	49	33	57	Dallas	8	Trinity	03A	206800	C		8	08170	Lake Ray Hubbard	Dallas Co. WCID #6	605	703	0	0	0	0	Based on Dallas Co. WCID #6 supply. Contract expires in 2015.
Balch Springs	MUN	30049000		C	49	33	57	Dallas	8	Trinity	03A	206800	D		5	05010	Tawakoni (Dallas)	Dallas Co. WCID #6	1,608	1,874	0	0	0	0	Based on Dallas Co. WCID #6 supply. Contract expires in 2015.
Carrollton	MUN	30147000	P	C	147	98	57	Dallas	8	Trinity	01		C	57	8	05728	Trinity Aquifer	SG	77	77	77	77	77	77	Available supply limited by aquifer supply.

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Carrollton	MUN	30147000	P	C	147	98	57	Dallas	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	10,965	11,056	0	0	0	0	Based on DWU supply. Contract expires in 2013.
Cedar Hill	MUN	30151000	P	C	151	102	57	Dallas	8	Trinity	01		C	57	8	05728	Trinity Aquifer	SG	317	317	317	317	317	317	Use to shave peak demand. Available supply limited by aquifer supply.
Cedar Hill	MUN	30151000	P	C	151	102	57	Dallas	8	Trinity	01		C	57	8	05729	Woodbine Aquifer	SG	72	72	72	72	72	72	Use to shave peak demand. Limit based on pump cap.
Cedar Hill	MUN	30151000	P	C	151	102	57	Dallas	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	1,295	1,868	0	0	0	0	Plan to use DWU in future and keep deep well for backup. Based on DWU supply. Contract expires in 2014.
Cedar Hill	MUN	30151000	P	C	151	102	57	Dallas	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	3,442	4,983	0	0	0	0	Plan to use DWU in future and keep deep well for backup. Based on DWU supply. Contract expires in 2014.
Cedar Hill	MUN	30151000	P	C	151	102	57	Dallas	8	Trinity	03	171	C		8	08130	Joe Pool Lake	TRA	0	0	0	0	0	0	contract in Joe Pool, but no plans for use. Based on TRA supply & contract.
Cockrell Hill	MUN	30182000		C	182	121	57	Dallas	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	157	143	0	0	0	0	Based on DWU supply. Contract expires in 2014.
Cockrell Hill	MUN	30182000		C	182	121	57	Dallas	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	418	382	0	0	0	0	Based on DWU supply. Contract expires in 2014.
Combine	MUN	30193000	P	C	193	766	57	Dallas	8	Trinity	03A	206800	C		8	08170	Lake Ray Hubbard	Combine WSC	20	21	25	36	35	36	Based on Combine WSC supply.
Combine	MUN	30193000	P	C	193	766	57	Dallas	8	Trinity	03A	206800	D		5	05010	Tawakoni (Dallas)	Combine WSC	52	55	73	96	95	98	Based on Combine WSC supply.
Coppell	MUN	30201000		C	201	133	57	Dallas	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	7,215	0	0	0	0	0	Based on DWU supply. Contract expires in 2003.
Dallas	MUN	30227000	P	C	227	151	57	Dallas	8	Trinity	02	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	52,741	60,222	101,520	140,285	134,200	136,302	Based on DWU supply.
Dallas	MUN	30227000	P	C	227	151	57	Dallas	8	Trinity	02	206800	C		8	08170	Lake Ray Hubbard	DWU	57,099	54,398	61,957	61,191	60,180	59,035	Based on DWU supply.
Dallas	MUN	30227000	P	C	227	151	57	Dallas	8	Trinity	02	206800	D		5	05010	Tawakoni (Dallas)	DWU	151,703	145,108	165,759	164,187	162,132	159,613	Based on DWU supply.
De Soto	MUN	30234000		C	234	161	57	Dallas	8	Trinity	01		C	57	8	05728	Trinity Aquifer	SG	74	74	74	74	74	74	Plans to abandon current well & go to100% SW. Available supply limited by aquifer supply.
De Soto	MUN	30234000		C	234	161	57	Dallas	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	1,936	2,389	0	0	0	0	Based on DWU supply. Contract expires in 2013.
De Soto	MUN	30234000		C	234	161	57	Dallas	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	5,145	6,373	0	0	0	0	Based on DWU supply. Contract expires in 2013.

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Duncanville	MUN	30256000		C	256	171	57	Dallas	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	1,763	1,829	0	0	0	0	Based on DWU supply. Contract expires in 2014.
Duncanville	MUN	30256000		C	256	171	57	Dallas	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	4,684	4,878	0	0	0	0	Based on DWU supply. Contract expires in 2014.
Duncanville	MUN	30256000		C	256	171	57	Dallas	8	Trinity	03	171	C		8	08130	Joe Pool Lake	TRA	0	0	0	0	0	0	Based on TRA supply & contract. WTP not yet constructed.
Farmers Branch	MUN	30293000		C	293	198	57	Dallas	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	9,652	9,527	0	0	0	0	Based on DWU supply. Contract expires in 2010.
Garland	MUN	30334000	P	C	334	230	57	Dallas	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	21,903	16,238	13,101	11,183	9,717	8,771	Based on NTMWD supply.
Garland	MUN	30334000	P	C	334	230	57	Dallas	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	12,108	9,086	7,419	6,416	5,649	5,172	Based on NTMWD supply.
Garland	MUN	30334000	P	C	334	230	57	Dallas	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	8,487	6,257	5,064	4,349	3,802	3,450	Based on NTMWD supply.
Glenn Heights	MUN	30344000	P	C	344	697	57	Dallas	8	Trinity	01		C	57	8	05729	Woodbine Aquifer	SG	309	309	309	309	309	309	go to SW in future. Limit is pump cap.
Glenn Heights	MUN	30344000	P	C	344	697	57	Dallas	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	152	172	200	0	0	0	Based on DWU supply. Contract expires in 2022.
Glenn Heights	MUN	30344000	P	C	344	697	57	Dallas	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	404	458	640	0	0	0	Based on DWU supply. Contract expires in 2022.
Grand Prairie	MUN	30353000	P	C	353	245	57	Dallas	8	Trinity	01		C	57	8	05728	Trinity Aquifer	SG	2,342	2,342	2,342	2,342	2,342	2,342	Possibly add 1.6 MGD from Joe Pool in future. Available supply limited by aquifer supply.
Grand Prairie	MUN	30353000	P	C	353	245	57	Dallas	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	12,084	11,837	0	0	0	0	Based on DWU supply. Contract expires in 2012.
Grand Prairie	MUN	30353000	P	C	353	245	57	Dallas	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	0	0	0	0	0	0	Used in Tarrant County only.
Grand Prairie	MUN	30353000	P	C	353	245	57	Dallas	8	Trinity	03	171	C		8	08130	Joe Pool Lake	TRA	168	168	168	153	148	144	Based on TRA supply & contract. Limited by pipeline capacity.
Grapevine	MUN	30360000	P	C	360	249	57	Dallas	8	Trinity	00		C		8	08070	Lake Grapevine	SS	22	22	22	22	22	22	Based on water right
Highland Park	MUN	30402000		C	402	276	57	Dallas	8	Trinity	00		C		8	08070	Lake Grapevine	Park Cities MUD	4,154	4,223	4,281	4,327	4,376	4,393	Based on Park Cities MUD supply.
Hutchins	MUN	30429000		C	429	294	57	Dallas	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	165	200	0	0	0	0	Based on DWU supply. Contract expires in 2012.
Hutchins	MUN	30429000		C	429	294	57	Dallas	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	439	533	0	0	0	0	Based on DWU supply. Contract expires in 2012.
Hutchins	MUN	30429000		C	429	294	57	Dallas	8	Trinity	01		C	57	8	05729	Woodbine Aquifer	SG	0	0	0	0	0	0	use GW for emergency only

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Irving	MUN	30437000		C	437	298	57	Dallas	8	Trinity	01		C	57	8	05728	Trinity Aquifer	SG	0	0	0	0	0	0	NO GW
Irving	MUN	30437000		C	437	298	57	Dallas	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	38,614	4,582	7,524	0	0	0	Rights in Chapman for 54,000 AF which will begin using in 2003 (pipeline under construction). Based on DWU supply. In 2003, DWU will supply 5 MGD. Contract expires in 2033.
Lancaster	MUN	30509000		C	509	345	57	Dallas	8	Trinity	01		C	57	8	05728	Trinity Aquifer	SG	220	220	220	220	220	220	Will take wells out of service in next 2-5 yrs. Available supply limited by aquifer supply.
Lancaster	MUN	30509000		C	509	345	57	Dallas	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	973	997	0	0	0	0	Based on DWU supply. Contract expires in 2011.
Lancaster	MUN	30509000		C	509	345	57	Dallas	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	2,586	2,660	0	0	0	0	Based on DWU supply. Contract expires in 2011.
Lewisville	MUN	30519000	P	C	519	355	57	Dallas	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	159	206	0	0	0	0	Plans to get more water from UTRWD & DWU. Based on DWU supply. Contract expires in 2016.
Mesquite	MUN	30592000		C	592	401	57	Dallas	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	12,865	11,193	10,417	10,069	9,727	8,621	Based on NTMWD supply.
Mesquite	MUN	30592000		C	592	401	57	Dallas	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	7,111	6,263	5,897	5,776	5,656	5,081	Based on NTMWD supply.
Mesquite	MUN	30592000		C	592	401	57	Dallas	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	4,985	4,310	4,029	3,916	3,804	3,392	Based on NTMWD supply.
Ovilla	MUN	30663000	P	C	663	729	57	Dallas	8	Trinity	01		C	57	8	05729	Woodbine Aquifer	SG	0	0	0	0	0	0	GW no longer used - buy from Cedar Hill
Ovilla	MUN	30663000	P	C	663	729	57	Dallas	8	Trinity	03A	206800	C		8	08170	Lake Ray Hubbard	Cedar Hill	18	18	0	0	0	0	Based on Cedar Hill supply. Contract expires in 2014.
Ovilla	MUN	30663000	P	C	663	729	57	Dallas	8	Trinity	03A	206800	D		5	05010	Tawakoni (Dallas)	Cedar Hill	47	49	0	0	0	0	Based on Cedar Hill supply. Contract expires in 2014.
Richardson	MUN	30747000	P	C	747	498	57	Dallas	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	13,981	11,430	9,572	8,355	7,376	6,814	Based on NTMWD supply.
Richardson	MUN	30747000	P	C	747	498	57	Dallas	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	7,728	6,396	5,419	4,793	4,289	4,017	Based on NTMWD supply.
Richardson	MUN	30747000	P	C	747	498	57	Dallas	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	5,417	4,402	3,702	3,249	2,885	2,681	Based on NTMWD supply.
Rowlett	MUN	30777000	P	C	777	521	57	Dallas	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	4,417	3,986	3,782	3,666	3,382	3,322	Based on NTMWD supply.
Rowlett	MUN	30777000	P	C	777	521	57	Dallas	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	2,442	2,230	2,141	2,103	1,966	1,958	Based on NTMWD supply.
Rowlett	MUN	30777000	P	C	777	521	57	Dallas	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	1,712	1,535	1,463	1,426	1,323	1,307	Based on NTMWD supply.
Sachse	MUN	30784000	P	C	784	742	57	Dallas	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	1,010	1,442	1,312	1,274	1,215	1,171	Based on NTMWD supply.
Sachse	MUN	30784000	P	C	784	742	57	Dallas	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	558	807	743	731	706	690	Based on NTMWD supply.
Sachse	MUN	30784000	P	C	784	742	57	Dallas	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	391	555	507	495	475	461	Based on NTMWD supply.
Seagoville	MUN	30812000		C	812	547	57	Dallas	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	423	620	0	0	0	0	Based on DWU supply. Contract expires in 2013.

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Seagoville	MUN	30812000		C	812	547	57	Dallas	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	1,123	1,655	0	0	0	0	Based on DWU supply. Contract expires in 2013.
Sunnyvale	MUN	30871000		C	871	749	57	Dallas	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	495	752	774	686	603	548	Based on NTMWD supply.
Sunnyvale	MUN	30871000		C	871	749	57	Dallas	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	274	421	438	394	350	323	Based on NTMWD supply.
Sunnyvale	MUN	30871000		C	871	749	57	Dallas	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	192	290	299	267	236	216	Based on NTMWD supply.
University Park	MUN	30920000		C	920	615	57	Dallas	8	Trinity	00		C		8	08070	Lake Grapevine	Park Cities MUD	6,646	6,577	6,519	6,473	6,424	6,407	Based on Park Cities MUD supply.
Wilmer	MUN	30975000		C	975	657	57	Dallas	8	Trinity	01		C	57	8	05728	Trinity Aquifer	GW	223	223	223	223	223	223	Plan to buy treated water from DWU. Available supply limited by aquifer supply.
County -Other	MUN	30996057		C	996	757	57	Dallas	8	Trinity	01		C	57	8	05728	Trinity Aquifer	GW	262	262	262	262	262	262	Available supply limited by aquifer supply.
County -Other	MUN	30996057		C	996	757	57	Dallas	8	Trinity	01		C	57	8	05729	Woodbine Aquifer	GW	184	184	184	184	184	184	Based on 112.36% of max. historical use.
County -Other	MUN	30996057		C	996	757	57	Dallas	8	Trinity	01		C	57	8	05722	Other Aquifer	GW	58	58	58	58	58	58	Limit based on 112.36% of historical max use.
County -Other	MUN	30996057		C	996	757	57	Dallas	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	2,385	9,889	10,706	12,836	12,271	11,970	Based on DWU supply.
County -Other	MUN	30996057		C	996	757	57	Dallas	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	215	865	1,120	1,166	1,107	1,077	Based on DWU supply. Contract expires in 2014.
County -Other	MUN	30996057		C	996	757	57	Dallas	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	572	2,306	2,999	3,129	2,983	2,913	Based on DWU supply. Contract expires in 2014.
County -Other	MUN	30996057		C	996	757	57	Dallas	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	1	1	0	0	0	0	Based on NTMWD supply.
County -Other	MUN	30996057		C	996	757	57	Dallas	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	1	0	0	0	0	0	Based on NTMWD supply.
County -Other	MUN	30996057		C	996	757	57	Dallas	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	0	0	0	0	0	0	Based on NTMWD supply.
County -Other	MUN	30996057		C	996	757	57	Dallas	8	Trinity	00	171	C		8	35081	Reuse	TRA	8,000	8,000	8,000	8,000	8,000	8,000	Based on TRA supply. Dallas Co. URD (Las Colinas)
Irrigation	IRR	31004057		C	1004	1004	57	Dallas	8	Trinity	01		C	57	8	05722	Other Aquifer	GW	533	533	533	533	533	533	Limit based on 112.36% of historical max use.
Irrigation	IRR	31004057		C	1004	1004	57	Dallas	8	Trinity	00		C		8	057996	Irrigation Local Supply	IRLS	3,387	2,719	2,719	2,719	2,719	2,719	Based on IRLS data.
Livestock	STK	31005057		C	1005	1005	57	Dallas	8	Trinity	01		C	57	8	05729	Woodbine Aquifer	GW	89	89	89	89	89	89	Based on 112.36% of max. historical use.
Livestock	STK	31005057		C	1005	1005	57	Dallas	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	712	712	712	712	712	712	Based on max. historical use,
Manufacturing	MFG	31001057		C	1001	1001	57	Dallas	8	Trinity	01		C	57	8	05728	Trinity Aquifer	GW	271	271	271	271	271	271	Available supply limited by aquifer supply.
Manufacturing	MFG	31001057		C	1001	1001	57	Dallas	8	Trinity	01		C	57	8	05729	Woodbine Aquifer	GW	767	767	767	767	767	767	Based on 112.36% of max. historical use.

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Manufacturing	MFG	31001057		C	1001	1001	57	Dallas	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	4,358	3,302	2,147	1,714	1,616	1,658	Based on NTMWD supply.
Manufacturing	MFG	31001057		C	1001	1001	57	Dallas	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	2,409	1,848	1,215	983	940	977	Based on NTMWD supply.
Manufacturing	MFG	31001057		C	1001	1001	57	Dallas	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	1,689	1,272	830	666	632	652	Based on NTMWD supply.
Manufacturing	MFG	31001057		C	1001	1001	57	Dallas	8	Trinity	00		C		8	08070	Lake Grapevine	SW	109	109	109	109	109	109	Based on Grapevine's water right.
Manufacturing	MFG	31001057		C	1001	1001	57	Dallas	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	11,019	13,258	18,112	28,000	32,623	37,969	Based on DWU supply. Does not include Irving MFG sales.
Manufacturing	MFG	31001057		C	1001	1001	57	Dallas	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	Irving (DWU)	2,575	2,393	2,591	0	0	0	Based on Irving supply. Contract expires in 2012.
Manufacturing	MFG	31001057		C	1001	1001	57	Dallas	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	1,577	1,759	2,784	3,270	3,784	4,393	Based on DWU supply.
Manufacturing	MFG	31001057		C	1001	1001	57	Dallas	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	4,190	4,692	7,456	8,774	10,195	11,879	Based on DWU supply.
Mining	MIN	31003057		C	1003	1003	57	Dallas	8	Trinity	01		C	57	8	05728	Trinity Aquifer	GW	992	992	992	992	992	992	Available supply limited by aquifer supply.
Mining	MIN	31003057		C	1003	1003	57	Dallas	8	Trinity	00		C		8	08999	Other Local Supply	SW	1,525	1,525	1,525	1,525	1,525	1,525	Based on historical max use.
Steam Electric Power	PWR	31002057		C	1002	1002	57	Dallas	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	8,406	7,814	8,460	9,550	9,550	0	Based on DWU contract per Bennett Jones (TXU North Lake Plant). Contract expires 2040.
Steam Electric Power	PWR	31002057		C	1002	1002	57	Dallas	8	Trinity	00		C		8	08140	Mountain Creek Lake	SW	6,400	6,400	6,400	6,400	6,400	6,400	Mountain Creek Plant (TXU)
Steam Electric Power	PWR	31002057		C	1002	1002	57	Dallas	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	264	245	266	300	300	297	Parkdale Plant (TXU)
Steam Electric Power	PWR	31002057		C	1002	1002	57	Dallas	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	123	88	91	70	56	70	C.E. Newman (Garland). Based on NTMWD supply.
Steam Electric Power	PWR	31002057		C	1002	1002	57	Dallas	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	68	49	51	40	32	41	C.E. Newman (Garland). Based on NTMWD supply.
Steam Electric Power	PWR	31002057		C	1002	1002	57	Dallas	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	48	34	35	27	22	28	C.E. Newman (Garland). Based on NTMWD supply.
Steam Electric Power	PWR	31002057		C	1002	1002	57	Dallas	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	715	644	0	0	0	0	Lake Hubbard (TXU). Based on contract per Bennett Jones. Contract expires in 2017.
Steam Electric Power	PWR	31002057		C	1002	1002	57	Dallas	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	1,899	1,717	0	0	0	0	Lake Hubbard (TXU). Based on contract per Bennett Jones. Contract expires in 2017.

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Steam Electric Power	PWR	31002057		C	1002	1002	57	Dallas	8	Trinity	01		C	57	8	05728	Trinity Aquifer	GW	186	186	186	186	186	186	Available supply limited by aquifer supply.
DENTON COUNTY																									
Argyle	MUN	30036000		C	36	677	61	Denton	8	Trinity	03A		C	61	8	06128	Trinity Aquifer	SG - Argyle WSC	132	132	132	111	111	111	Argyle WSC supplies City of Argyle, Bartonville, and some of Denton and Denton County. Available supply limited by aquifer supply.
Argyle	MUN	30036000		C	36	677	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	UTRWD	389	1,352	2,840	0	0	0	Based on UTRWD supply from DWU contract. Contract between DWU and UTRWD expires in 2022.
Aubrey	MUN	30043000		C	43	758	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	85	85	85	71	71	71	Use GW and back with SW. Get 100,000 gpd from UTRWD in 2000. Available supply limited by aquifer supply.
Aubrey	MUN	30043000		C	43	758	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	UTRWD	80	155	306	0	0	0	(*) Based on UTRWD supply and contract with DWU. Contract between DWU and UTRWD expires in 2022.
Bartonville	MUN	30058000		C	58	820	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	Bartonville WSC	267	978	1,514	0	0	0	(*) Based on UTRWD supply and contract with DWU. Contract between DWU and UTRWD expires in 2022.
Bartonville	MUN	30058000		C	58	820	61	Denton	8	Trinity	03A		C	61	8	06128	Trinity Aquifer	SG - Bartonville WSC	31	31	31	26	26	26	Bartonville WSC supplies Copper Canyon, Bartonville, Double Oak, & unincorporated south central Denton County. Available supply limited by aquifer supply.
Carrollton	MUN	30147000	P	C	147	98	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	62	62	62	52	52	52	Available supply limited by aquifer supply.
Carrollton	MUN	30147000	P	C	147	98	61	Denton	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	9,538	10,215	0	0	0	0	Based on DWU supply. Contract expires in 2013.
Copper Canyon	MUN	30202000		C	202	849	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	Bartonville WSC	267	607	1,077	0	0	0	(*) Based on UTRWD supply and contract with DWU. Contract between DWU and UTRWD expires in 2022.
Copper Canyon	MUN	30202000		C	202	849	61	Denton	8	Trinity	03A		C	61	8	06128	Trinity Aquifer	Bartonville WSC	54	54	54	45	45	45	Served by Bartonville WSC. Available supply limited by aquifer supply.
Corinth	MUN	30204000		C	204	691	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	107	107	107	90	90	90	Well is maintained for emergency backup only.

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Corinth	MUN	30204000		C	204	691	61	Denton	8	Trinity	03A		C		8	08100P	Lake Ray Roberts	UTRWD (Denton)	932	0	0	0	0	0	UTRWD supply supplemented with Denton water in 2000.
Corinth	MUN	30204000		C	204	691	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	UTRWD	1,215	3,508	5,487	0	0	0	Based on UTRWD supply and contract with DWU. Contract between DWU and UTRWD expires in 2022.
Crossroads	MUN	30996061		C	996	757	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	Mustang WSC (UTRWD)	59	172	580	0	0	0	(*) Based on UTRWD supply and contract with DWU. Contract between DWU and UTRWD expires in 2022.
Dallas	MUN	30227000	P	C	227	151	61	Denton	8	Trinity	02	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	934	1,120	2,028	3,136	3,268	3,621	Based on DWU supply.
Dallas	MUN	30227000	P	C	227	151	61	Denton	8	Trinity	02	206800	C		8	08170	Lake Ray Hubbard	DWU	1,011	1,011	1,235	1,368	1,465	1,568	Based on DWU supply.
Dallas	MUN	30227000	P	C	227	151	61	Denton	8	Trinity	02	206800	D		5	05010	Tawakoni (Dallas)	DWU	2,686	2,698	3,308	3,670	3,948	4,240	Based on DWU supply.
Denton	MUN	30240000		C	240	159	61	Denton	8	Trinity	00		C		8	08110P	Lake Lewisville	SS	4,870	4,830	4,790	4,760	4,720	4,680	Limited by Table 4 availability
Denton	MUN	30240000		C	240	159	61	Denton	8	Trinity	00		C		8	08100P	Lake Ray Roberts	SS	18,865	20,579	21,780	21,580	21,430	21,280	Based on water right. In 2000, 4,613 AF/Y sent to UTRWD (Highland Village) per agreement. Also, 1401 sold to Sanger through UTRWD for entire period.
Denton	MUN	30240000		C	240	159	61	Denton	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	219	335	0	0	0	0	Based on DWU supply. Contract expires in 2015.
Denton	MUN	30240000		C	240	159	61	Denton	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	493	458	0	0	0	0	Based on DWU supply. Raw water. Contract expires in 2015.
Denton	MUN	30240000		C	240	159	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	UTRWD	4	2	4	0	0	0	Based on UTRWD supply. Contract between DWU and UTRWD expires in 2022.
Double Oak	MUN	30251000		C	251	768	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	Bartonville WSC	405	543	697	0	0	0	(*) Based on Bartonville WSC supply. Contract between DWU and UTRWD expires in 2022.
Double Oak	MUN	30251000		C	251	768	61	Denton	8	Trinity	03A		C	61	8	06128	Trinity Aquifer	Bartonville WSC	90	90	90	75	75	75	Served by Bartonville WSC. Available supply limited by aquifer supply.

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Flower Mound	MUN	30301000		C	301	204	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	UTRWD	5,108	9,740	16,353	0	0	0	Based on UTRWD supply and contract with DWU. Up to 30 MGD comes from UTRWD contract with DWU. Contract between DWU and UTRWD expires in 2022.
Flower Mound	MUN	30301000		C	301	204	61	Denton	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	4,496	4,586	0	0	0	0	Based on DWU supply. Contract expires in 2017.
Frisco	MUN	30319000	P	C	319	221	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	0	0	0	0	0	0	No GW used.
Frisco	MUN	30319000	P	C	319	221	61	Denton	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	108	204	186	190	177	172	Based on NTMWD supply.
Frisco	MUN	30319000	P	C	319	221	61	Denton	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	59	114	105	109	103	101	Based on NTMWD supply.
Frisco	MUN	30319000	P	C	319	221	61	Denton	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	42	79	72	74	69	68	Based on NTMWD supply.
Hebron	MUN	30390000		C	390	776	61	Denton	8	Trinity	03A		C	61	8	06129	Woodbine Aquifer	SG - Hebron WSC	14	14	14	14	14	14	Available supply limited by aquifer supply.
Hickory Creek	MUN	30399000		C	399	704	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	Lake Cities MUA (UTRWD)	250	507	968	0	0	0	1 well for City Hall. Based on UTRWD supply and contract with DWU. Contract between DWU and UTRWD expires in 2022.
Hickory Creek	MUN	30399000		C	399	704	61	Denton	8	Trinity	03A		C	61	8	06128	Trinity Aquifer	Lake Cities MUA	74	74	74	62	62	62	Lake Cities MUA. Available supply limited by aquifer supply.
Highland Village	MUN	30403000		C	403	706	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	931	931	931	780	780	780	Drill 1 more well in 5 yrs. Available supply limited by aquifer supply.
Highland Village	MUN	30403000		C	403	706	61	Denton	8	Trinity	03A		C		8	08100P	Lake Ray Roberts	UTRWD (Denton)	932	0	0	0	0	0	UTRWD supply supplemented with Denton water in 2000.
Highland Village	MUN	30403000		C	403	706	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	UTRWD	1,019	2,799	2,852	0	0	0	Based on UTRWD supply and contract with DWU. Contract between DWU and UTRWD expires in 2022.
Justin	MUN	30456000		C	456	784	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	133	133	133	111	111	111	Hope to go to UTRWD in 3 yrs or so. Available supply limited by aquifer supply.
Krugerville	MUN	30481000		C	481	892	61	Denton	8	Trinity	03A		C	61	8	06128	Trinity Aquifer	SG Krugerville WSC	47	47	47	39	39	39	Available supply limited by aquifer supply.
Krum	MUN	30482000		C	482	785	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	117	117	117	98	98	98	Short-term drill another well. Have option of adding treated water from UTRWD at some point. Available supply limited by aquifer supply.

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Lake Dallas	MUN	30498000		C	498	337	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	Lake Cities MUA (UTRWD)	778	963	1,307	0	0	0	Based on UTRWD supply and contract with DWU. Contract between DWU and UTRWD expires in 2022.
Lake Dallas	MUN	30498000		C	498	337	61	Denton	8	Trinity	03A		C	61	8	06128	Trinity Aquifer	Lake Cities MUA	184	184	184	154	154	154	Lake Cities MUA. Available supply limited by aquifer supply.
Lewisville	MUN	30519000	P	C	519	355	61	Denton	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	9,210	14,766	0	0	0	0	Will get more water from UTRWD & DWU. Based on DWU supply. Contract expires in 2016.
Lewisville	MUN	30519000	P	C	519	355	61	Denton	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	6,588	6,123	0	0	0	0	Based on DWU supply. Raw water. Contract expires in 2016.
Lincoln Park	MUN	30996061		C	996	757	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG - assumed	61	61	61	51	51	51	Available supply limited by aquifer supply.
Lincoln Park	MUN	30996061		C	996	757	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	UTRWD	5	14	38	0	0	0	(*) Based on UTRWD supply. Contract between DWU and UTRWD expires in 2022.
Lincoln Park	MUN	30996061		C	996	757	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	Mustang WSC (UTRWD)	5	14	38	0	0	0	(*) Based on Mustang WSC supply. Contract between DWU and UTRWD expires in 2022.
Little Elm	MUN	30527000		C	527	790	61	Denton	8	Trinity	01		C	61	8	06129	Woodbine Aquifer	SG	107	107	107	107	107	107	Go to SW in future. No one would return phone call! Available supply limited by aquifer supply. UTRWD expects to serve.
Northlake	MUN	30996061		C	996	757	61	Denton	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	49	744	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Northlake	MUN	30996061		C	996	757	61	Denton	8	Trinity	01		C	61	8	06129	Woodbine Aquifer	SG	39	39	39	39	39	39	Assume Woodbine. Aquifer is limited.
Oak Point	MUN	30648000		C	648	930	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	UTRWD	124	305	883	0	0	0	(*) Based on UTRWD supply. Contract between DWU and UTRWD expires in 2022.
Oak Point	MUN	30648000		C	648	930	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	n/a	37	37	37	31	31	31	Each resident has own well supply. Available supply limited by aquifer supply.

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Pilot Point	MUN	30695000		C	695	465	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	273	273	273	229	229	229	Possibly drill another well. Option to purchase from UTRWD. Available supply limited by aquifer supply.
Plano	MUN	30704000	P	C	704	472	61	Denton	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	10	11	11	11	12	12	Based on NTMWD supply.
Plano	MUN	30704000	P	C	704	472	61	Denton	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	6	6	6	7	7	7	Based on NTMWD supply.
Plano	MUN	30704000	P	C	704	472	61	Denton	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	4	4	4	4	5	5	Based on NTMWD supply.
Ponder	MUN	30996061		C	996	757	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	79	79	79	66	66	66	Available supply limited by aquifer supply. Planning to go to UTRWD in 5 years.
Roanoke	MUN	30758000		C	758	800	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	141	141	141	118	118	118	Planning to go to total SW in future. Available supply limited by aquifer supply.
Roanoke	MUN	30758000		C	758	800	61	Denton	8	Trinity	03A	298900	C		8	086C0	West Fork less Bridgeport Local	Trophy Club #1	207	291	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Sanger	MUN	30801000		C	801	535	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	269	269	269	225	225	225	Available supply limited by aquifer supply. Already buying 500,000 gpd from UTRWD thru Denton.
Sanger	MUN	30801000		C	801	535	61	Denton	8	Trinity	03A		C		8	08100P	Lake Ray Roberts	UTRWD (Denton)	1,401	1,401	0	0	0	0	(*) Based on UTRWD contract using Denton water. No expiration date.
Shady Shores	MUN	30820000		C	820	803	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	Lake Cities MUA (UTRWD)	209	317	495	0	0	0	Based on UTRWD supply through DWU contract. Contract between DWU and UTRWD expires in 2022.
Shady Shores	MUN	30820000		C	820	803	61	Denton	8	Trinity	03A		C	61	8	06128	Trinity Aquifer	Lake Cities MUA	37	37	37	31	31	31	Buy all water from Lake Cities MUA. Available supply limited by aquifer supply.
Southlake	MUN	30846000	P	C	846	570	61	Denton	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	192	0	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2002.
The Colony	MUN	30891000		C	891	752	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	SG	603	603	603	505	505	505	No future additions. Available supply limited by aquifer supply.
The Colony	MUN	30891000		C	891	752	61	Denton	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	2,465	4,606	0	0	0	0	No limit with DWU. Based on DWU supply. Contract expires in 2010.
Trophy Club	MUN	30911000		C	911	806	61	Denton	8	Trinity	03A		C	61	8	06128	Trinity Aquifer	SG Trophy Club #1	308	308	308	258	258	258	Available supply limited by aquifer supply.

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Trophy Club	MUN	30911000		C	911	806	61	Denton	8	Trinity	03A	298900	C		8	086C0	West Fork less Bridgeport Local	Trophy Club #1	1,571	2,266	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
County -Other	MUN	30996061		C	996	757	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	GW	1,985	1,993	1,987	1,648	1,636	1,636	Available supply limited by aquifer supply.
County -Other	MUN	30996061		C	996	757	61	Denton	8	Trinity	01		C	61	8	06129	Woodbine Aquifer	GW	210	210	210	210	210	210	Available supply limited by aquifer supply.
County -Other	MUN	30996061		C	996	757	61	Denton	8	Trinity	01		C	61	8	06122	Other Aquifer	GW	5	5	5	4	4	4	Available supply limited by aquifer supply.
County -Other	MUN	30996061		C	996	757	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	UTRWD	2,775	3,055	10,673	0	0	0	(*) Based on UTRWD supply. Contract between DWU and UTRWD expires in 2022.
County -Other	MUN	30996061		C	996	757	61	Denton	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	480	550	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
County -Other	MUN	30996061		C	996	757	61	Denton	8	Trinity	00		C		8	36132	Reuse		2,240	2,240	2,240	2,240	2,240	2,240	UTRWD Direct Reuse (Denton Co. FWSD #1)
Irrigation	IRR	31004061		C	1004	1004	61	Denton	8	Trinity	01		C	61	8	06129	Woodbine Aquifer	GW	351	351	351	351	351	351	Available supply limited by aquifer supply.
Irrigation	IRR	31004061		C	1004	1004	61	Denton	8	Trinity	00		C	61	8	061996	Irrigation Local Supply	IRLS	634	634	634	634	634	634	Based on IRLS data.
Livestock	STK	31005061		C	1005	1005	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	GW	175	175	175	147	147	147	Available supply limited by aquifer supply.
Livestock	STK	31005061		C	1005	1005	61	Denton	8	Trinity	01		C	61	8	06129	Woodbine Aquifer	GW	289	289	289	289	289	289	Available supply limited by aquifer supply.
Livestock	STK	31005061		C	1005	1005	61	Denton	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	935	935	935	935	935	935	Based on max. historical use.
Manufacturing	MFG	31001061		C	1001	1001	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	GW	38	38	38	32	32	32	Available supply limited by aquifer supply.
Manufacturing	MFG	31001061		C	1001	1001	61	Denton	8	Trinity	00		C		8	08100P	Lake Ray Roberts	Denton	20	20	20	20	20	20	Based on histind.xls
Manufacturing	MFG	31001061		C	1001	1001	61	Denton	8	Trinity	03A	206800	C		8	086D0	Elm Fork/Lake Grapevine System	UTRWD	743	721	858	0	0	0	(*) Based on UTRWD supply. Contract between DWU and UTRWD expires in 2022.
Manufacturing	MFG	31001061		C	1001	1001	61	Denton	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	4	4	0	0	0	0	Based on DWU supply. Contract expires in 2015.
Mining	MIN	31003061		C	1003	1003	61	Denton	8	Trinity	01		C	61	8	06128	Trinity Aquifer	GW	56	48	54	64	76	76	Available supply limited by aquifer supply.

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Mining	MIN	31003061		C	1003	1003	61	Denton	8	Trinity	00		C		8	08999	Other Local Supply	SW	90	90	90	90	90	90	Based on historical use.
County -Other	MUN	30996061		C	996	757	61	Denton	8	Trinity	00		C		8	36132	Reuse		700	700	700	700	700	700	Trophy Club & The Colony reuse for golf.
Steam Electric Power	PWR	31002061		C	1002	1002	61	Denton	8	Trinity	00		C		8	36132	Reuse	Denton	500	500	500	500	500	500	Reuse by Denton Power Plant.
ELLIS COUNTY																									
Cedar Hill	MUN	30151000	P	C	151	102	70	Ellis	8	Trinity	01		C	70	8	07028	Trinity Aquifer	SG	1	1	1	1	1	1	Use to shave down peak demand. Available supply limited by aquifer supply.
Cedar Hill	MUN	30151000	P	C	151	102	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	SG	0	0	0	0	0	0	Groundwater not used.
Cedar Hill	MUN	30151000	P	C	151	102	70	Ellis	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	3	5	0	0	0	0	Plan to use DWU in future and keep deep well for backup. Based on DWU supply. Contract expires in 2014.
Cedar Hill	MUN	30151000	P	C	151	102	70	Ellis	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	8	13	0	0	0	0	Plan to use DWU in future and keep deep well for backup. Based on DWU supply. Contract expires in 2014.
Cedar Hill	MUN	30151000	P	C	151	102	70	Ellis	8	Trinity	03	171	C		8	08130	Joe Pool Lake	TRA	0	0	0	0	0	0	Contract in Joe Pool, but no plans for use. Based on TRA supply & contract.
Ennis	MUN	30284000		C	284	192	70	Ellis	8	Trinity	03	171	C		8	08210	Lake Bardwell	TRA	5,350	5,183	5,005	4,085	3,589	3,139	Based on TRA supply.
Ennis	MUN	30284000		C	284	192	70	Ellis	8	Trinity	00		C		8	08640	Lake Clark	SS	0	0	0	0	0	0	Not connected.
Ferris	MUN	30296000		C	296	201	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	SG	196	196	196	196	196	196	Available supply limited by aquifer supply.
Ferris	MUN	30296000		C	296	201	70	Ellis	8	Trinity	03A	171	C		8	08130	Joe Pool Lake	Rockett SUD	121	193	264	331	330	332	Rockett SUD buys from Midlothian. Based on TRA's supply available in Lake Joe Pool.
Glenn Heights	MUN	30344000	P	C	344	697	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	SG	13	13	13	13	13	13	Available supply limited by aquifer supply.
Glenn Heights	MUN	30344000	P	C	344	697	70	Ellis	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	35	40	50	0	0	0	Based on DWU supply. Contract expires in 2022.
Glenn Heights	MUN	30344000	P	C	344	697	70	Ellis	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	94	108	144	0	0	0	Based on DWU supply. Contract expires in 2022.
Grand Prairie	MUN	30353000	P	C	353	245	70	Ellis	8	Trinity	01		C	70	8	07028	Trinity Aquifer	SG	7	7	7	6	6	6	Possibly add 1.6 MGD from Joe Pool in future. Available supply limited by aquifer supply.
Grand Prairie	MUN	30353000	P	C	353	245	70	Ellis	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	4	11	0	0	0	0	Based on DWU supply. Contract expires in 2012.

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Grand Prairie	MUN	30353000	P	C	353	245	70	Ellis	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	0	0	0	0	0	0	Used in Tarrant County only.
Italy	MUN	30438000		C	438	299	70	Ellis	8	Trinity	01		C	70	8	07028	Trinity Aquifer	SG	198	198	198	166	166	166	Hot water reduces life of pumps. Would like SW if ever feasible. Plans to add 2 wells in Trinity (total 370 gpm) & 1 well in Woodbine @ 110 gpm in future. Available supply limited by aquifer supply.
Italy	MUN	30438000		C	438	299	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	SG	53	53	53	53	53	53	Available supply limited by aquifer supply.
Mansfield	MUN	30559000	P	C	559	384	70	Ellis	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	99	148	223	289	323	364	Based on TRWD supply.
Maypearl	MUN	30573000		C	573	911	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	SG	89	89	89	89	89	89	Just added a well. Not real helpful. Available supply limited by aquifer supply.
Midlothian	MUN	30596000		C	596	405	70	Ellis	8	Trinity	01		C	70	8	07028	Trinity Aquifer	SG	132	132	132	111	111	111	Available supply limited by aquifer supply.
Midlothian	MUN	30596000		C	596	405	70	Ellis	8	Trinity	03	171	C		8	08130	Joe Pool Lake	TRA	2,116	2,516	2,842	3,147	3,255	3,434	Based on TRA supply.
Midlothian	MUN	30596000		C	596	405	70	Ellis	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRA/TRWD	0	0	0	0	0	0	Has contract for 1682 AF, but infrastructure not in place.
Milford	MUN	30598000		C	598	916	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	SG	26	26	26	26	26	26	Available supply limited by aquifer supply.
Milford	MUN	30598000		C	598	916	70	Ellis	8	Trinity	03A		C	70	8	07022	Other Aquifer	Files Valley WC - PG	41	41	41	34	34	34	Available supply limited by aquifer supply.
Oak Leaf	MUN	30647000		C	647	929	70	Ellis	8	Trinity	03	206800	C		8	08170	Lake Ray Hubbard	DWU	40	41	50	0	0	0	Based on DWU supply. Contract expires in 2022.
Oak Leaf	MUN	30647000		C	647	929	70	Ellis	8	Trinity	03	206800	D		5	05010	Tawakoni (Dallas)	DWU	106	109	147	0	0	0	Based on DWU supply. Contract expires in 2022.
Ovilla	MUN	30663000	P	C	663	729	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	SG	0	0	0	0	0	0	GW no longer used - buy from Cedar Hill
Ovilla	MUN	30663000	P	C	663	729	70	Ellis	8	Trinity	03A	206800	C		8	08170	Lake Ray Hubbard	Cedar Hill	159	168	0	0	0	0	Based on Cedar Hill supply. Contract expires in 2014.
Ovilla	MUN	30663000	P	C	663	729	70	Ellis	8	Trinity	03A	206800	D		5	05010	Tawakoni (Dallas)	Cedar Hill	423	448	0	0	0	0	Based on Cedar Hill supply. Contract expires in 2014.

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Palmer	MUN	30671000		C	671	731	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	SG	131	131	131	131	131	131	No more wells. Plan to go to SW. Available supply limited by aquifer supply.
Pecan Hill	MUN	30686000		C	686	935	70	Ellis	8	Trinity	01		C	70	8	07022	Other Aquifer	PG	99	99	99	83	83	83	Would not return phone calls. Available supply limited by aquifer supply.
Red Oak	MUN	30739000		C	739	737	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	SG	223	223	223	223	223	223	1 more well @ 600gpm. Not all GW treated. Available supply limited by aquifer supply.
Red Oak	MUN	30739000		C	739	737	70	Ellis	8	Trinity	03A	171	C		8	08130	Joe Pool Lake	Rockett SUD	524	700	855	989	1,039	1,121	Rockett SUD buys from Midlothian. Based on TRA's supply.
Waxahachie	MUN	30943000		C	943	633	70	Ellis	8	Trinity	00		C		8	08200	Lake Waxahachie	Ellis County WCID #1	800	800	800	800	800	800	Plans to buy 1.985 MGD from TRWD. Based on yield.
Waxahachie	MUN	30943000		C	943	633	70	Ellis	8	Trinity	03A	171	C		8	08210	Lake Bardwell	Ellis County WCID #1	2,999	2,991	2,382	2,095	2,095	2,346	Ellis Co WCID #1. Based on TRA supply.
Waxahachie	MUN	30943000		C	943	633	70	Ellis	8	Trinity	00	171	C		8	35081	Reuse	TRA	3,400	3,800	3,900	4,400	4,900	5,129	Based on TRA supply. Waxahachie
County -Other	MUN	30996070		C	996	757	70	Ellis	8	Trinity	01		C	70	8	07028	Trinity Aquifer	GW	3,271	3,271	3,271	2,741	2,741	2,741	Available supply limited by aquifer supply.
County -Other	MUN	30996070		C	996	757	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	GW	401	391	376	361	346	329	Available supply limited by aquifer supply.
County -Other	MUN	30996070		C	996	757	70	Ellis	8	Trinity	01		C	70	8	07022	Other Aquifer	GW	6	6	6	5	5	5	Available supply limited by aquifer supply.
County -Other	MUN	30996070		C	996	757	70	Ellis	8	Trinity	03A	171	C		8	08130	Joe Pool Lake	Rockett SUD	2,193	2,380	2,427	2,404	2,419	2,298	Based on Rockett SUD supply (from Midlothian).
County -Other	MUN	30996070		C	996	757	70	Ellis	8	Trinity	03	171	C		8	08210	Lake Bardwell	TRA	628	671	1,168	1,604	1,617	1,311	Based on TRA supply.
Irrigation	IRR	31004070		C	1004	1004	70	Ellis	8	Trinity	01		C	70	8	07028	Trinity Aquifer	GW	22	22	22	18	18	18	Available supply limited by aquifer supply.
Irrigation	IRR	31004070		C	1004	1004	70	Ellis	8	Trinity	00		C		8	070996	Irrigation Local Supply	IRLS	508	508	508	508	508	508	Based on IRLS data.
Livestock	STK	31005070		C	1005	1005	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	GW	113	113	113	113	113	113	Available supply limited by aquifer supply.
Livestock	STK	31005070		C	1005	1005	70	Ellis	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	1,688	1,688	1,688	1,688	1,688	1,688	Based on max. historical use.
Manufacturing	MFG	31001070		C	1001	1001	70	Ellis	8	Trinity	01		C	70	8	07028	Trinity Aquifer	GW	1,957	1,957	1,957	1,640	1,640	1,640	Available supply limited by aquifer supply.
Manufacturing	MFG	31001070		C	1001	1001	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	GW	477	477	477	477	477	477	Available supply limited by aquifer supply.
Manufacturing	MFG	31001070		C	1001	1001	70	Ellis	8	Trinity	03A	171	C		8	08130	Joe Pool Lake	Midlothian (TRA)	220	220	214	212	214	218	Based on Midlothian (TRA) supply.
Manufacturing	MFG	31001070		C	1001	1001	70	Ellis	8	Trinity	00		C		8	08200	Lake Waxahachie	SW	1,600	1,600	1,600	1,600	1,600	1,600	Based on yield.
Manufacturing	MFG	31001070		C	1001	1001	70	Ellis	8	Trinity	03	171	C		8	08210	Lake Bardwell	TRA	623	755	945	1,216	1,299	1,304	Based on TRA supply.

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Mining	MIN	31003070		C	1003	1003	70	Ellis	8	Trinity	01		C	70	8	07029	Woodbine Aquifer	GW	110	120	135	150	165	182	Available supply limited by aquifer supply.
FANNIN COUNTY																									
Bonham	MUN	30098000		C	98	65	74	Fannin	2	Red	00		C		2	02270	Lake Bonham	SS	4,448	4,448	4,448	4,448	4,040	3,540	Based on yield.
Honey Grove	MUN	30415000		C	415	283	74	Fannin	3	Sulphur	01		C	74	3	07429	Woodbine Aquifer	SG	508	508	508	508	508	508	Source combined with Woodbine in Red Basin. Based on 125% of max. historical use.
Honey Grove	MUN	30415000		C	415	283	74	Fannin	2	Red	01		C	74	2	07429	Woodbine Aquifer	SG	26	26	26	26	26	27	Based on 125% of max. historical use.
Leonard	MUN	30517000		C	517	352	74	Fannin	3	Sulphur	01		C	74	3	07429	Woodbine Aquifer	SG	40	40	40	40	40	40	Plans to use grant to drill additional well in 1999. Based on avg. pump capacity.
Leonard	MUN	30517000		C	517	352	74	Fannin	8	Trinity	01		C	74	8	07429	Woodbine Aquifer	SG	363	363	363	363	363	363	Plans to use grant to drill additional well in 1999. Based on avg. pump capacity.
Savoy	MUN	30807000		C	807	957	74	Fannin	2	Red	01		C	74	2	07429	Woodbine Aquifer	SG	131	131	131	131	131	131	Would not return phone calls. Available supply limited by aquifer supply. Based on 125% of max. historical use.
Trenton	MUN	30908000		C	908	978	74	Fannin	8	Trinity	01		C	74	8	07429	Woodbine Aquifer	SG	274	274	274	274	274	274	Based on a/g. pump capacity.
County -Other	MUN	30996074		C	996	757	74	Fannin	2	Red	01		C	74	2	07428	Trinity Aquifer	GW	349	349	349	349	349	349	Based on 125% of max. historical use.
County -Other	MUN	30996074		C	996	757	74	Fannin	2	Red	01		C	74	2	07429	Woodbine Aquifer	GW	990	990	990	990	990	990	Based on 125% of max. historical use.
County -Other	MUN	30996074		C	996	757	74	Fannin	2	Red	00		C		2	02270	Lake Bonham	SW	734	734	734	734	667	584	Based on yield.
County -Other	MUN	30996074		C	996	757	74	Fannin	3	Sulphur	01		C	74	3	07428	Trinity Aquifer	GW	198	198	198	198	198	198	Based on 125% of max. historical use.
County -Other	MUN	30996074		C	996	757	74	Fannin	3	Sulphur	01		C	74	3	07429	Woodbine Aquifer	GW	609	609	609	609	609	609	Based on 125% of max. historical use.
County -Other	MUN	30996074		C	996	757	74	Fannin	3	Sulphur	00		C		2	02270	Lake Bonham	SW	40	40	40	40	36	32	Based on yield.
County -Other	MUN	30996074		C	996	757	74	Fannin	8	Trinity	01		C	74	8	07428	Trinity Aquifer	GW	79	79	79	79	79	79	Based on 125% of max. historical use.
County -Other	MUN	30996074		C	996	757	74	Fannin	8	Trinity	01		C	74	8	07429	Woodbine Aquifer	GW	251	251	251	251	251	251	Based on 125% of max. historical use.
Irrigation	IRR	31004074		C	1004	1004	74	Fannin	2	Red	01		C	74	2	07422	Other Aquifer	GW	2,919	2,919	2,919	2,919	2,919	2,919	Available supply limited by aquifer supply. Based on max. historical use.
Irrigation	IRR	31004074		C	1004	1004	74	Fannin	2	Red	00		C		2	074996	Irrigation Local Supply	IRLS	12,728	12,728	12,728	12,728	12,728	12,728	Based on IRLS data.
Livestock	STK	31005074		C	1005	1005	74	Fannin	2	Red	01		C	74	2	07429	Woodbine Aquifer	GW	159	159	159	159	159	159	Based on 125% of max. historical use.
Livestock	STK	31005074		C	1005	1005	74	Fannin	2	Red	00		C		2	02997	Livestock Local Supply	SW	1,140	1,140	1,140	1,140	1,140	1,140	Based on max. historical use.

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Livestock	STK	31005074		C	1005	1005	74	Fannin	3	Sulphur	01		C	74	3	07428	Trinity Aquifer	GW	26	26	26	26	26	26	Based on 125% of max. historical use.
Livestock	STK	31005074		C	1005	1005	74	Fannin	3	Sulphur	01		C	74	3	07429	Woodbine Aquifer	GW	25	25	25	25	25	25	Based on 125% of max. historical use.
Livestock	STK	31005074		C	1005	1005	74	Fannin	3	Sulphur	00		C		3	03997	Livestock Local Supply	SW	367	367	367	367	367	367	Based on max. historical use.
Livestock	STK	31005074		C	1005	1005	74	Fannin	8	Trinity	01		C	74	8	07428	Trinity Aquifer	GW	10	10	10	10	10	10	Based on 125% of max. historical use.
Livestock	STK	31005074		C	1005	1005	74	Fannin	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	76	76	76	76	76	76	Based on max. historical use.
Manufacturing	MFG	31001074		C	1001	1001	74	Fannin	2	Red	01		C	74	2	07429	Woodbine Aquifer	GW	34	34	34	34	34	34	Based on 125% of max. historical use.
Manufacturing	MFG	31001074		C	1001	1001	74	Fannin	2	Red	00		C		2	02270	Lake Bonham	SW	118	118	118	118	107	94	Based on yield.
Manufacturing	MFG	31001074		C	1001	1001	74	Fannin	3	Sulphur	01		C	74	3	07429	Woodbine Aquifer	GW	364	364	364	364	364	364	Based on 125% of max. historical use.
Mining	MIN	31003074		C	1003	1003	74	Fannin	2	Red	00		C		2	02999	Other Local Supply	SW	161	161	161	161	161	161	Based on max. historical use.
Steam Electric Power	PWR	31002074		C	1002	1002	74	Fannin	2	Red	01		C	74	2	07429	Woodbine Aquifer	GW	596	596	596	596	596	596	Based on 125% of max. historical use.
Steam Electric Power	PWR	31002074		C	1002	1002	74	Fannin	2	Red	00		C		2	02230P	Lake Texoma	SW	10,000	10,000	10,000	10,000	10,000	10,000	Valley Plant (TXU) from Texoma
FREESTONE COUNTY																									
Fairfield	MUN	30289000		C	289	196	81	Freestone	8	Trinity	01		C	81	8	08110	Carrizo-Wilcox Aquifer	SG	791	791	791	791	791	791	No more wells. Will eventually convert to SW when necessary from TRA maybe in 2010 or later. Also, new prison with 2 wells, not sure of capacity. Based on avg. pump capacity.
Teague	MUN	30884000		C	884	596	81	Freestone	8	Trinity	00		C		12	12860	Teague City Lake	SS	0	0	0	0	0	0	Not reliable water supply.
Teague	MUN	30884000		C	884	596	81	Freestone	8	Trinity	01		C	81	8	08110	Carrizo-Wilcox Aquifer	SG	254	254	254	254	254	254	Applied for grant to drill another well. Based on avg. pump capacity.
Teague	MUN	30884000		C	884	596	81	Freestone	12	Brazos	00		C		12	12860	Teague City Lake	SS	0	0	0	0	0	0	Not reliable water supply.
Teague	MUN	30884000		C	884	596	81	Freestone	12	Brazos	01		C	81	12	08110	Carrizo-Wilcox Aquifer	SG	593	593	593	593	593	593	Applied for grant to drill another well. Based on avg. pump capacity.
Wortham	MUN	30990000		C	990	668	81	Freestone	8	Trinity	00		C		8	08700	Wortham Lake	SS	0	0	0	0	0	0	Not reliable water supply.
County -Other	MUN	30996081		C	996	757	81	Freestone	8	Trinity	01		C	81	8	08110	Carrizo-Wilcox Aquifer	GW	1,468	1,468	1,468	1,468	1,468	1,468	Based on 125% of max. historical use.
County -Other	MUN	30996081		C	996	757	81	Freestone	8	Trinity	00		C		8	08700	Wortham Lake	SW	0	0	0	0	0	0	Not reliable water supply.

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County -Other	MUN	30996081		C	996	757	81	Freestone	12	Brazos	01		C	81	12	08110	Carrizo-Wilcox Aquifer	GW	233	233	233	233	233	233	Based on 125% of max. historical use.
County -Other	MUN	30996081		C	996	757	81	Freestone	12	Brazos	00		C		8	08700	Wortham Lake	SW	0	0	0	0	0	0	Not reliable water supply.
Irrigation	IRR	31004081		C	1004	1004	81	Freestone	12	Brazos	01		C	81	12	08110	Carrizo-Wilcox Aquifer	GW	6	6	6	6	6	6	Based on 125% of max. historical use.
Irrigation	IRR	31004081		C	1004	1004	81	Freestone	8	Trinity	01		C	81	8	08110	Carrizo-Wilcox Aquifer	GW	25	25	25	25	25	25	Based on 125% of max. historical use.
Irrigation	IRR	31004081		C	1004	1004	81	Freestone	8	Trinity	00		C	81	8	081996	Irrigation Local Supply	IRLS	353	353	353	353	353	353	Based on IRLS data.
Livestock	STK	31005081		C	1005	1005	81	Freestone	8	Trinity	01		C	81	8	08110	Carrizo-Wilcox Aquifer	GW	766	766	766	766	766	766	Based on 125% of max. historical use.
Livestock	STK	31005081		C	1005	1005	81	Freestone	8	Trinity	01		C	81	8	08122	Other Aquifer	GW	35	35	35	35	35	35	Based on 125% of max. historical use.
Livestock	STK	31005081		C	1005	1005	81	Freestone	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	961	961	961	961	961	961	Based on max. historical use.
Livestock	STK	31005081		C	1005	1005	81	Freestone	12	Brazos	01		C	81	12	08122	Other Aquifer	GW	21	21	21	21	21	21	Based on 125% of max. historical use.
Livestock	STK	31005081		C	1005	1005	81	Freestone	12	Brazos	01		C	81	12	08124	Queen City Aquifer	GW	48	48	48	48	48	48	Based on 125% of max. historical use.
Livestock	STK	31005081		C	1005	1005	81	Freestone	12	Brazos	00		C		12	12997	Livestock Local Supply	SW	82	82	82	82	82	82	Based on max. historical use.
Mining	MIN	31003081		C	1003	1003	81	Freestone	8	Trinity	00		C		8	08999	Other Loc al Supply	SW	236	236	236	236	236	236	Based on max. historical use.
Mining	MIN	31003081		C	1003	1003	81	Freestone	8	Trinity	01		C	81	8	08110	Carrizo-Wilcox Aquifer	GW	39	39	39	39	39	39	Based on 125% of max. historical use.
Mining	MIN	31003081		C	1003	1003	81	Freestone	12	Brazos	01		C	81	12	08110	Carrizo-Wilcox Aquifer	GW	16	16	17	18	19	20	Based on 125% of max. historical use.
Steam Electric Power	PWR	31002081		C	1002	1002	81	Freestone	8	Trinity	01		C	81	8	08110	Carrizo-Wilcox Aquifer	GW	204	204	204	204	204	204	Based on 125% of max. historical use.
Steam Electric Power	PWR	31002081		C	1002	1002	81	Freestone	8	Trinity	00		C		8	08420	Lake Fairfield	SW	2,000	2,000	2,000	2,000	2,000	2,000	Big Brown Plant (TXU). Based on yield.
Steam Electric Power	PWR	31002081		C	1002	1002	81	Freestone	8	Trinity	00	171	C		8	08400	Livingston (TXU -Fairfield)	SW	16,000	16,000	16,000	16,000	16,000	16,000	Fairfield (TXU)
GRAYSON COUNTY																									

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Bells	MUN	30071000		C	71	824	91	Grayson	2	Red	01		C	91	2	09128	Trinity Aquifer	SG	29	29	29	26	26	26	Available supply limited by aquifer supply.
Bells	MUN	30071000		C	71	824	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	SG	62	62	62	62	62	62	Available supply limited by aquifer supply.
Collinsville	MUN	30187000		C	187	765	91	Grayson	8	Trinity	01		C	91	8	09128	Trinity Aquifer	SG	115	115	115	103	103	103	Add 1 more well 200 gpm in future. Available supply limited by aquifer supply.
Denison	MUN	30239000		C	239	158	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	SG	0	0	0	0	0	0	NO GW
Denison	MUN	30239000		C	239	158	91	Grayson	2	Red	00		C		2	02230P	Lake Texoma	COE storage	20,624	20,624	20,624	20,624	20,624	20,624	Based on yield available in Table 4.
Denison	MUN	30239000		C	239	158	91	Grayson	2	Red	00		C		2	02240	Lake Randell	SS	4,519	4,519	4,519	4,519	4,519	4,519	Based on yield.
Gunter	MUN	30370000		C	370	876	91	Grayson	8	Trinity	01		C	91	8	09128	Trinity Aquifer	SG	84	84	84	76	76	76	Applied for a grant for another well. Available supply limited by aquifer supply.
Howe	MUN	30419000		C	419	286	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	SG	121	121	121	121	121	121	Available supply limited by aquifer supply.
Howe	MUN	30419000		C	419	286	91	Grayson	8	Trinity	01		C	91	8	09129	Woodbine Aquifer	SG	37	37	37	37	37	37	Available supply limited by aquifer supply.
Luella	MUN	30548000		C	548	905	91	Grayson	2	Red	03A		C	91	2	09129	Woodbine Aquifer	SG - Luella WSC	41	41	41	41	41	41	Could not be reached. Available supply limited by aquifer supply.
Pottsboro	MUN	30719000		C	719	797	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	SG	23	23	23	23	23	23	Wants to purchase 3 MGD from Denison. Available supply limited by aquifer supply.
Pottsboro	MUN	30719000		C	719	797	91	Grayson	2	Red	03A		C		2	02240	Lake Randell	Denison	261	261	261	261	261	261	City is allowed 233,000 gpd from res.
Sherman	MUN	30827000		C	827	556	91	Grayson	2	Red	01		C	91	2	09128	Trinity Aquifer	SG	815	815	815	733	733	733	May add ground storage tanks. Available supply limited by aquifer supply.
Sherman	MUN	30827000		C	827	556	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	SG	1,461	1,461	1,461	1,461	1,461	1,461	May add ground storage tanks. Available supply limited by aquifer supply.
Sherman	MUN	30827000		C	827	556	91	Grayson	2	Red	03A		C		2	02230P	Lake Texoma	GTUA	11,210	11,210	11,210	11,210	11,210	11,210	May add ground storage tanks. Based on pipe cap of 20 MGD with peak factor of 2
Southmayd	MUN	30847000		C	847	961	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	SG	17	17	17	17	17	17	Plans to drill one more well. Available supply limited by aquifer supply.
Tioga	MUN	30902000		C	902	974	91	Grayson	8	Trinity	01		C	91	8	09128	Trinity Aquifer	SG	73	73	73	66	66	66	Did not return phone calls. Available supply limited by aquifer supply.
Tom Bean	MUN	30904000		C	904	976	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	SG	81	81	81	81	81	81	May drill again in near future. Available supply limited by aquifer supply.
Van Alstyne	MUN	30925000		C	925	619	91	Grayson	8	Trinity	01		C	91	8	09128	Trinity Aquifer	SG	223	223	223	200	200	200	Available supply limited by aquifer supply.
Van Alstyne	MUN	30925000		C	925	619	91	Grayson	8	Trinity	01		C	91	8	09129	Woodbine Aquifer	SG	35	35	35	35	35	35	One more well in near future. Available supply limited by aquifer supply.

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Whitesboro	MUN	30967000		C	967	650	91	Grayson	2	Red	01		C	91	2	09128	Trinity Aquifer	SG	113	113	113	102	102	102	Possibly drill another well when needed. Available supply limited by aquifer supply.
Whitesboro	MUN	30967000		C	967	650	91	Grayson	8	Trinity	01		C	91	8	09128	Trinity Aquifer	SG	18	18	18	16	16	16	Available supply limited by aquifer supply.
Whitewright	MUN	30968000		C	968	652	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	SG	132	132	132	132	132	132	Available supply limited by aquifer supply.
County-Other	MUN	30996091		C	996	757	91	Grayson	2	Red	01		C	91	2	09128	Trinity Aquifer	GW	294	294	294	264	264	264	Available supply limited by aquifer supply.
County-Other	MUN	30996091		C	996	757	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	GW	782	782	782	782	782	782	Available supply limited by aquifer supply.
County-Other	MUN	30996091		C	996	757	91	Grayson	2	Red	01		C	91	2	09122	Other Aquifer	GW	25	25	25	22	22	18	Available supply limited by aquifer supply.
County-Other	MUN	30996091		C	996	757	91	Grayson	2	Red	00		C		2	02230P	Lake Texoma	SW	1,192	1,192	1,192	1,192	1,192	1,192	Based on yield.
County-Other	MUN	30996091		C	996	757	91	Grayson	8	Trinity	01		C	91	8	09129	Woodbine Aquifer	GW	457	457	457	457	457	457	Available supply limited by aquifer supply.
County-Other	MUN	30996091		C	996	757	91	Grayson	8	Trinity	01		C	91	8	09122	Other Aquifer	GW	10	10	10	9	9	9	Available supply limited by aquifer supply.
Irrigation	IRR	31004091		C	1004	1004	91	Grayson	2	Red	01		C	91	2	09128	Trinity Aquifer	GW	31	31	31	28	28	28	Available supply limited by aquifer supply.
Irrigation	IRR	31004091		C	1004	1004	91	Grayson	2	Red	00		C		2	091996	Irrigation Local Supply	IRLS	996	996	996	996	996	996	Based on IRLS data.
Irrigation	IRR	31004091		C	1004	1004	91	Grayson	8	Trinity	01		C	91	8	09128	Trinity Aquifer	GW	1,462	1,462	1,462	1,315	1,315	1,315	Available supply limited by aquifer supply.
Irrigation	IRR	31004091		C	1004	1004	91	Grayson	8	Trinity	00		C		8	091996	Irrigation Local Supply	IRLS	0	0	0	0	0	0	Based on IRLS data.
Livestock	STK	31005091		C	1005	1005	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	GW	28	28	28	28	28	28	Available supply limited by aquifer supply.
Livestock	STK	31005091		C	1005	1005	91	Grayson	2	Red	00		C		2	02997	Livestock Local Supply	SW	1,079	1,079	1,079	1,079	1,079	1,079	Based on max. historical use.
Livestock	STK	31005091		C	1005	1005	91	Grayson	8	Trinity	01		C	91	8	09129	Woodbine Aquifer	GW	61	61	61	61	61	61	Available supply limited by aquifer supply.
Livestock	STK	31005091		C	1005	1005	91	Grayson	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	604	604	604	604	604	604	Based on max. historical use.
Manufacturing	MFG	31001091		C	1001	1001	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	GW	2,132	2,132	2,132	2,132	2,132	2,132	Available supply limited by aquifer supply.
Manufacturing	MFG	31001091		C	1001	1001	91	Grayson	2	Red	00		C		2	02230P	Lake Texoma	SW	2,584	2,584	2,584	2,584	2,584	2,584	Based on yield.
Manufacturing	MFG	31001091		C	1001	1001	91	Grayson	2	Red	00		C		2	02240	Lake Randell	SW	500	500	500	500	500	500	Based on yield.
Manufacturing	MFG	31001091		C	1001	1001	91	Grayson	8	Trinity	01		C	91	8	09129	Woodbine Aquifer	GW	6	6	6	6	6	6	Available supply limited by aquifer supply.
Mining	MIN	31003091		C	1003	1003	91	Grayson	2	Red	01		C	91	2	09128	Trinity Aquifer	GW	13	13	13	12	12	12	Available supply limited by aquifer supply.
Mining	MIN	31003091		C	1003	1003	91	Grayson	8	Trinity	01		C	91	8	09128	Trinity Aquifer	GW	154	154	154	138	138	138	Available supply limited by aquifer supply.

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Mining	MIN	31003091		C	1003	1003	91	Grayson	2	Red	01		C	91	2	09129	Woodbine Aquifer	GW	20	20	20	20	20	20	Available supply limited by aquifer supply.
Mining	MIN	31003091		C	1003	1003	91	Grayson	8	Trinity	01		C	91	8	09129	Woodbine Aquifer	GW	214	214	214	214	214	214	Available supply limited by aquifer supply.
County -Other	MUN	30996091		C	996	757	91	Grayson	2	Red	00		C		2	36055	Reuse		100	100	100	100	100	100	Reuse by Denison for golf.
HENDERSON COUNTY																									
Athens	MUN	30041000		C	41	28	107	Henderson	8	Trinity	01		C	107	8	10710	Carrizo-Wilcox Aquifer	SG	726	562	562	562	562	562	Used for backup. Based on avg. pump capacity.
Athens	MUN	30041000		C	41	28	107	Henderson	8	Trinity	03A		I		6	06010	Lake Athens	Athens MWA	6,262	6,162	6,162	6,062	6,062	5,962	Based on yield.
Eustace	MUN	30286000		C	286	864	107	Henderson	8	Trinity	01		C	107	8	10710	Carrizo-Wilcox Aquifer	SG	133	133	133	133	133	133	Plan to drill more wells (quality & pressure problems). Possibly go to SW from East Cedar Creek. Based on avg. pump capacity.
Gun Barrel City	MUN	30369000		C	369	699	107	Henderson	8	Trinity	03A	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	East Cedar Creek FWSD (TRWD)	1,055	1,141	1,237	1,292	1,333	1,369	No GW use. Based on TRWD supply. Not dependent on pipeline.
Mabank	MUN	30554000	P	C	554	375	107	Henderson	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	72	90	99	113	114	115	Based on TRWD supply. Not dependent on pipeline.
Malakoff	MUN	30557000		C	557	383	107	Henderson	8	Trinity	01		C	107	8	10710	Carrizo-Wilcox Aquifer	SG	420	420	420	420	420	420	Based on max. historical use.
Payne Springs	MUN	30682000		C	682	934	107	Henderson	8	Trinity	03A	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	East Cedar Creek FWSD (TRWD)	168	174	174	180	188	199	Based on TRWD supply. Not dependent on pipeline.
Seven Points	MUN	30818000		C	818	959	107	Henderson	8	Trinity	03A	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	West Cedar Creek MUD (TRWD)	121	120	118	118	119	120	No GW use. Buys from West Cedar Creek. Based on West CC (TRWD) supply. Not dependent on pipeline.
Tool	MUN	30906000		C	906	753	107	Henderson	8	Trinity	03A	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	West Cedar Creek MUD (TRWD)	366	376	384	399	402	409	No GW use. Buys from West Cedar Creek. Based on West CC (TRWD) supply. Not dependent on pipeline.

A		B		C	D	E	F		G		H	I	J	K	L	M	N		O	P	Q	R	S	T	
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Trinidad	MUN	30909000		C	909	609	107	Henderson	8	Trinity	00		C		8	A08195	Trinidad City Lake	SS	1,000	1,000	1,000	1,000	1,000	1,000	No future plans to increase supply. Based on water right.
County -Other	MUN	30996107		C	996	757	107	Henderson	8	Trinity	01		C	107	8	10710	Carrizo-Wilcox Aquifer	GW	1,639	1,639	1,639	1,639	1,639	1,639	Based on max. historical use.
County -Other	MUN	30996107		C	996	757	107	Henderson	8	Trinity	01		C	107	8	10722	Other Aquifer	GW	24	24	24	24	24	24	Based on max. historical use.
County -Other	MUN	30996107		C	996	757	107	Henderson	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	1,045	1,256	1,418	1,397	1,234	1,114	Not dependent on pipeline
Irrigation	IRR	31004107		C	1004	1004	107	Henderson	8	Trinity	01		C	107	8	10710	Carrizo-Wilcox Aquifer	GW	21	21	21	21	21	21	Based on max. historical use.
Irrigation	IRR	31004107		C	1004	1004	107	Henderson	8	Trinity	00		C		8	107996	Irrigation Local Supply	IRLS	2,382	2,382	2,382	2,382	2,382	2,382	Based on IRLS data.
Livestock	STK	31005107		C	1005	1005	107	Henderson	8	Trinity	01		C	107	8	10710	Carrizo-Wilcox Aquifer	GW	527	527	527	527	527	527	Based on max. historical use.
Livestock	STK	31005107		C	1005	1005	107	Henderson	8	Trinity	01		C	107	8	10722	Other Aquifer	GW	143	143	143	143	143	143	Based on max. historical use.
Livestock	STK	31005107		C	1005	1005	107	Henderson	8	Trinity	01		C	107	8	10724	Queen City Aquifer	GW	54	54	54	54	54	54	Based on 125% of max . historical use.
Livestock	STK	31005107		C	1005	1005	107	Henderson	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	475	475	475	475	475	475	Based on historical max use.
Manufacturing	MFG	31001107		C	1001	1001	107	Henderson	8	Trinity	01		C	107	8	10710	Carrizo-Wilcox Aquifer	GW	320	320	320	320	320	320	Based on 1996 use.
Manufacturing	MFG	31001107		C	1001	1001	107	Henderson	8	Trinity	00		I		6	06010	Lake Athens	City of Athens	38	38	38	38	38	38	Based on 1996 use.
Mining	MIN	31003107		C	1003	1003	107	Henderson	8	Trinity	01		C	107	8	10710	Carrizo-Wilcox Aquifer	GW	466	466	466	466	466	466	Based on max. historical use.
Mining	MIN	31003107		C	1003	1003	107	Henderson	8	Trinity	00		C		8	08999	Other Local Supply	SW	29	29	29	29	29	29	Based on historical max use.
Steam Electric Power	PWR	31002107		C	1002	1002	107	Henderson	8	Trinity	01		C	107	8	10710	Carrizo-Wilcox Aquifer	GW	1	1	1	1	1	1	Based on max. historical use.
Steam Electric Power	PWR	31002107		C	1002	1002	107	Henderson	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	5,800	5,800	5,800	5,800	5,800	5,800	TXU (Forest Grove) contract information per Bennett Jones. Total use 9500; 3700 from storage during drought, and 5800 from Cedar Creek.

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Steam Electric Power	PWR	31002107		C	1002	1002	107	Henderson	8	Trinity	00		C		8	08410	Forest Grove	TXU	3,700	3,700	3,700	3,700	3,700	3,700	TXU (Forest Grove)
Steam Electric Power	PWR	31002107		C	1002	1002	107	Henderson	8	Trinity	00		C		8	08390	Lake Trinidad	SW	4,000	4,000	4,000	4,000	4,000	4,000	TXU. Based on yields.
HILL COUNTY (Region G)																									
County -Other	MUN	70996109		G	996	757	109	Hill	12	Brazos	03A	171	C		8	08230	Navarro Mills Reservoir	Corsicana (TRA)	300	300	300	300	300	300	Contract to Post Oak WSC. 85% in Region G
JACK COUNTY																									
Bryson	MUN	30124000		C	124	834	119	Jack	12	Brazos	00		C		12	12870	Lake Bryson	SS	90	90	90	90	90	90	Based on yield.
Jacksboro	MUN	30441000		C	441	302	119	Jack	8	Trinity	02		C		8	08290	Lost Creek/Jacksboro System	SS	1,392	1,392	1,392	1,392	1,392	1,392	Based on yield.
Jacksboro	MUN	30441000		C	441	302	119	Jack	8	Trinity	03	190	C		8	08010P	Bridgeport Local	TRWD	0	0	0	0	0	0	Based on TRWD supply & contract. Supply from other sources meet demands.
County -Other	MUN	30996119		C	996	757	119	Jack	12	Brazos	01		C	119	12	11928	Trinity Aquifer	GW	250	250	250	250	250	225	Based on 125% of max. historical use.
County -Other	MUN	30996119		C	996	757	119	Jack	12	Brazos	00		C		12	12870	Lake Bryson	SW	0	0	0	0	0	0	Not reliable water supply.
County -Other	MUN	30996119		C	996	757	119	Jack	8	Trinity	01		C	119	8	11928	Trinity Aquifer	GW	315	315	315	315	315	284	Based on 125% of max. historical use.
County -Other	MUN	30996119		C	996	757	119	Jack	8	Trinity	02		C		8	08290	Lost Creek/Jacksboro System	SW	5	5	5	5	5	5	Based on yield.
Irrigation	IRR	31004119		C	1004	1004	119	Jack	12	Brazos	01		C	119	12	11922	Other Aquifer	GW	16	16	16	16	16	16	Based on 125% of max. historical use.
Irrigation	IRR	31004119		C	1004	1004	119	Jack	8	Trinity	00		C	119	8	119996	Irrigation Local Supply	IRLS	110	110	110	110	110	110	Based on IRLS data.
Irrigation	IRR	31004119		C	1004	1004	119	Jack	12	Brazos	00		C	119	12	119996	Irrigation Local Supply	IRLS	15	15	15	15	15	15	Based on IRLS data.
Livestock	STK	31005119		C	1005	1005	119	Jack	8	Trinity	01		C	119	8	11922	Other Aquifer	GW	169	169	169	169	169	169	Based on 125% of max. historical use.
Livestock	STK	31005119		C	1005	1005	119	Jack	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	1,214	1,214	1,214	1,214	1,214	1,214	Based on max. historical use.
Livestock	STK	31005119		C	1005	1005	119	Jack	12	Brazos	01		C	119	12	11922	Other Aquifer	GW	63	63	63	63	63	63	Based on 125% of max. historical use.
Livestock	STK	31005119		C	1005	1005	119	Jack	12	Brazos	00		C		12	12997	Livestock Local Supply	SW	451	451	451	451	451	451	Based on max. historical use.
Mining	MIN	31003119		C	1003	1003	119	Jack	8	Trinity	01		C	119	8	11922	Other Aquifer	GW	281	281	281	281	281	281	Based on 125% of max. historical use.

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Mining	MIN	31003119		C	1003	1003	119	Jack	8	Trinity	00		C		8	08999	Other Local Supply	SW	370	370	370	370	370	370	Based on max. historical use.
Mining	MIN	31003119		C	1003	1003	119	Jack	12	Brazos	01		C	119	12	11922	Other Aquifer	GW	5	5	5	5	5	5	Based on 125% of max. historical use.
Irrigation	IRR	31004119		C	1004	1004	119	Jack	8	Trinity	00		C		8	35081	Reuse	Jacksboro	0	200	200	200	200	200	Based on Table 4.
JOHNSON COUNTY (Region G)																									
Burleson	MUN	70131000		G	131	87	126	Johnson	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	2,287	2,639	2,671	3,113	3,473	3,874	Sent to Region G
Mansfield	MUN	70559000		G	559	384	126	Johnson	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	136	142	158	172	212	262	Sent to Region G
KAUFMAN COUNTY																									
Combine	MUN	30193000	P	C	193	766	129	Kaufman	8	Trinity	03A	206800	C		8	08170	Lake Ray Hubbard	Combine WSC	61	71	80	120	119	121	Based on Combine WSC supply.
Combine	MUN	30193000	P	C	193	766	129	Kaufman	8	Trinity	03A	206800	D		5	05010	Tawakoni (Dallas)	Combine WSC	162	191	258	322	321	328	Based on Combine WSC supply.
Crandall	MUN	30210000		C	210	767	129	Kaufman	8	Trinity	03A	160	C		8	080C0	Lake Lavon/Reuse	Kaufman Four One	236	238	221	224	214	212	Based on Kaufman 4:1 (NTMWD) supply.
Crandall	MUN	30210000		C	210	767	129	Kaufman	8	Trinity	03A	160	C		2	020C0	Lake Texoma	Kaufman Four One	130	133	125	129	124	125	Based on Kaufman 4:1 (NTMWD) supply.
Crandall	MUN	30210000		C	210	767	129	Kaufman	8	Trinity	03A	160	D		3	030C0	Chapman (NTMWD)	Kaufman Four One	91	92	85	87	84	84	Based on Kaufman 4:1 (NTMWD) supply.
Dallas	MUN	30227000	P	C	227	151	129	Kaufman	8	Trinity	02	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	0	0	0	0	0	0	Based on DWU supply.
Dallas	MUN	30227000	P	C	227	151	129	Kaufman	8	Trinity	02	206800	C		8	08170	Lake Ray Hubbard	DWU	0	0	0	1	1	0	Based on DWU supply.
Dallas	MUN	30227000	P	C	227	151	129	Kaufman	8	Trinity	02	206800	D		5	05010	Tawakoni (Dallas)	DWU	1	1	1	2	2	1	Based on DWU supply.
Forney	MUN	30304000		C	304	207	129	Kaufman	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	616	934	1,157	1,354	1,544	1,733	Based on NTMWD supply.
Forney	MUN	30304000		C	304	207	129	Kaufman	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	341	522	655	777	898	1,022	Based on NTMWD supply.
Forney	MUN	30304000		C	304	207	129	Kaufman	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	239	360	447	527	604	682	Based on NTMWD supply.

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Kaufman	MUN	30459000		C	459	313	129	Kaufman	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	599	551	521	498	460	439	Based on NTMWD supply.
Kaufman	MUN	30459000		C	459	313	129	Kaufman	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	331	308	295	286	268	258	Based on NTMWD supply.
Kaufman	MUN	30459000		C	459	313	129	Kaufman	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	232	212	202	194	180	173	Based on NTMWD supply.
Kemp	MUN	30463000		C	463	711	129	Kaufman	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	526	526	526	526	526	526	Based on TRWD supply. Contract for 600 AF/Y. 74 AF/Y in municipal sales.
Mabank	MUN	30554000	P	C	554	375	129	Kaufman	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	489	603	661	754	813	878	Based on TRWD supply. Not dependent on pipeline.
Oak Grove	MUN	30646000		C	646	928	129	Kaufman	8	Trinity	03A	160	C		8	080C0	Lake Lavon/Reuse	Kaufman	63	50	42	36	32	28	Based on Kaufman (NTMWD) supply.
Oak Grove	MUN	30646000		C	646	928	129	Kaufman	8	Trinity	03A	160	C		2	020C0	Lake Texoma	NTMWD	35	28	24	21	19	17	Based on Kaufman (NTMWD) supply.
Oak Grove	MUN	30646000		C	646	928	129	Kaufman	8	Trinity	03A	160	D		3	030C0	Chapman (NTMWD)	NTMWD	25	19	16	14	12	11	Based on Kaufman (NTMWD) supply.
Terrell	MUN	30887000		C	887	599	129	Kaufman	8	Trinity	00		D		5	05010P	Lake Tawakoni	SS	9,749	9,722	9,689	9,662	9,634	9,601	Based on water right.
Terrell	MUN	30887000		C	887	599	129	Kaufman	8	Trinity	00		C		8	08180	Lake Terrell	SS	1,518	1,503	1,487	1,471	1,453	1,435	Based on yield.
County -Other	MUN	30996129		C	996	757	129	Kaufman	5	Sabine	01		C	129	5	12922	Other Aquifer	GW	124	124	124	124	124	124	Available supply limited by available aquifer.
County -Other	MUN	30996129		C	996	757	129	Kaufman	5	Sabine	00		D		5	05010P	Lake Tawakoni	Terrell	1	1	1	1	1	1	Based on historical max use.
County -Other	MUN	30996129		C	996	757	129	Kaufman	5	Sabine	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	27	33	40	44	43	41	Based on NTMWD supply.
County -Other	MUN	30996129		C	996	757	129	Kaufman	5	Sabine	03	160	C		2	020C0	Lake Texoma	NTMWD	15	19	23	25	25	24	Based on NTMWD supply.
County -Other	MUN	30996129		C	996	757	129	Kaufman	5	Sabine	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	11	13	15	17	17	16	Based on NTMWD supply.
County -Other	MUN	30996129		C	996	757	129	Kaufman	8	Trinity	01		C	129	8	12922	Other Aquifer	GW	87	87	87	87	87	87	Based on 119.35% of max. historical use.
County -Other	MUN	30996129		C	996	757	129	Kaufman	8	Trinity	00		D		5	05010P	Lake Tawakoni	Terrell	187	187	187	187	187	187	Based on historical max use.
County -Other	MUN	30996129		C	996	757	129	Kaufman	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	2,227	1,594	1,487	1,430	1,326	1,214	Based on NTMWD supply.
County -Other	MUN	30996129		C	996	757	129	Kaufman	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	1,231	892	842	821	771	716	Based on NTMWD supply.
County -Other	MUN	30996129		C	996	757	129	Kaufman	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	863	614	575	556	519	478	Based on NTMWD supply.

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County -Other	MUN	30996129		C	996	757	129	Kaufman	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	704	877	1,122	1,334	1,483	1,547	Not dependent on pipeline.
Irrigation	IRR	31004129		C	1004	1004	129	Kaufman	8	Triniy	01		C	129	8	12920	Nacatoch Aquifer	GW	15	15	15	15	15	15	Available supply limited by aquifer supply.
Irrigation	IRR	31004129		C	1004	1004	129	Kaufman	8	Trinity	00		C		8	129996	Irrigation Local Supply	IRLS	347	347	347	347	347	347	Based on IRLS data.
Livestock	STK	31005129		C	1005	1005	129	Kaufman	5	Sabine	01		C	129	5	12920	Nacatoch Aquifer	GW	7	7	7	7	7	7	Available supply limited by aquifer supply.
Livestock	STK	31005129		C	1005	1005	129	Kaufman	5	Sabine	00		C		5	05997	Livestock Local Supply	SW	91	91	91	91	91	91	Based on max. historical use.
Livestock	STK	31005129		C	1005	1005	129	Kaufman	8	Trinity	01		C	129	8	12920	Nacatoch Aquifer	GW	38	38	38	38	38	38	Available supply limited by aquifer supply.
Livestock	STK	31005129		C	1005	1005	129	Kaufman	8	Trinity	01		C	129	8	12929	Woodbine Aquifer	GW	135	135	135	135	135	135	Based on 119.35% of max. historical use.
Livestock	STK	31005129		C	1005	1005	129	Kaufman	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	1,531	1,531	1,531	1,531	1,531	1,531	Based on max. historical use.
Manufacturing	MFG	31001129		C	1001	1001	129	Kaufman	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	179	104	83	72	66	63	Based on NTMWD supply.
Manufacturing	MFG	31001129		C	1001	1001	129	Kaufman	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	99	58	47	41	38	37	Based on NTMWD supply.
Manufacturing	MFG	31001129		C	1001	1001	129	Kaufman	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	69	40	32	28	26	25	Based on NTMWD supply.
Manufacturing	MFG	31001129		C	1001	1001	129	Kaufman	8	Trinity	00		C		8	08180	Lake Terrell	SW	132	131	130	129	127	125	Based on yield.
Mining	MIN	31003129		C	1003	1003	129	Kaufman	8	Trinity	00		C		8	08999	Other Loc al Supply	SW	75	75	75	75	75	75	Based on max. historical use.
County -Other	Mun	30996129		C	996	757	129	Kaufman	8	Trinity	00		C		8	36142	Reuse		200	300	300	300	300	300	Reuse by Country Club Water Supply and Crandall for golf.
NAVARRO COUNTY																									
Blooming Grove	MUN	30090000		C	90	828	175	Navarro	8	Trinity	03A	171	C		8	08230	Navarro Mills Reservoir	Corsicana (TRA)	284	262	250	230	214	200	Based on Corsicana (TRA) supply.
Corsicana	MUN	30207000		C	207	137	175	Navarro	8	Trinity	00		C		8	08220	Lake Halbert	SS	358	358	358	358	358	358	Based on Corsicana supply and Lake Halbert yield.
Corsicana	MUN	30207000		C	207	137	175	Navarro	8	Trinity	03	171	C		8	08230	Navarro Mills Reservoir	TRA	11,561	12,039	12,016	12,181	12,566	12,983	City's use only. Based on TRA supply to Corsicana.
Corsicana	MUN	30207000		C	207	137	175	Navarro	8	Trinity	03		C		8	086E0	Cedar Creek/ Richland-Chambers System	SS	0	0	0	0	0	0	Infrastructure not in place.

A		B		C	D	E	F		G		H	I	J	K	L	M	N		O	P	Q	R	S	T	
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Dawson	MUN	30230000		C	230	855	175	Navarro	8	Trinity	03A	171	C		8	08230	Navarro Mills Reservoir	Corsicana (TRA)	366	329	278	249	236	226	Based on Corsicana (TRA) supply.
Dawson	MUN	30230000		C	230	855	175	Navarro	8	Trinity	03	171	C		8	08230	Navarro Mills Reservoir	TRA	368	368	368	368	368	368	Based on TRA supply
Frost	MUN	30321000		C	321	868	175	Navarro	8	Trinity	01		C	175	8	17529	Woodbine Aquifer	SG	104	104	104	104	104	104	GW is backup supply. Buys SW (Nav. Mills) from Corsicana as main supply. Based on 125% of max historical use.
Frost	MUN	30321000		C	321	868	175	Navarro	8	Trinity	03A	171	C		8	08230	Navarro Mills Reservoir	Corsicana (TRA)	0	0	0	0	0	0	No historical use.
Kerens	MUN	30466000		C	466	712	175	Navarro	8	Trinity	03A	171	C		8	08230	Navarro Mills Reservoir	Chatfield WSC	236	220	212	197	187	178	Based on Chatfield WSC (TRA) supply.
Kerens	MUN	30466000		C	466	712	175	Navarro	8	Trinity	03A	171	C		8	08230	Navarro Mills Reservoir	Corsicana (TRA)	236	220	212	197	187	178	Based on Corsicana (TRA) supply.
Rice	MUN	30746000		C	746	947	175	Navarro	8	Trinity	03A	171	C		8	08230	Navarro Mills Reservoir	Coriscana (Rice WSC)	459	421	414	398	390	390	Based on Rice Water Supply & Sewer (TRA) supply.
County -Other	MUN	30996175		C	996	757	175	Navarro	8	Trinity	01		C	175	8	17528	Trinity Aquifer	GW	61	61	61	61	61	61	Based on 125% of max. historical use.
County -Other	MUN	30996175		C	996	757	175	Navarro	8	Trinity	01		C	175	8	17529	Woodbine Aquifer	GW	131	131	131	131	131	131	Based on 125% of max. historical use.
County -Other	MUN	30996175		C	996	757	175	Navarro	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	561	561	561	561	561	561	Based on TRWD supply & contract (Winkler WSC & TPWD).
County -Other	MUN	30996175		C	996	757	175	Navarro	8	Trinity	03A	171	C		8	08230	Navarro Mills Reservoir	Corsicana (TRA)	3,410	2,991	3,048	2,925	2,529	2,087	Based on Corsicana (TRA) supply. 300 AF/Y sent to Region G
County -Other	MUN	30996175		C	996	757	175	Navarro	8	Trinity	00		C		8	08220	Lake Halbert	Corsicana	179	179	179	179	179	179	Based on Corsicana supply and Lake Halbert yield.
Irrigation	IRR	31004175		C	1004	1004	175	Navarro	8	Trinity	00		C		8	175996	Irrigation Local Supply	IRLS	2,901	2,841	2,841	2,841	2,841	2,841	Based on IRLS data.
Livestock	STK	31005175		C	1005	1005	175	Navarro	8	Trinity	01		C	175	8	17510	Carrizo-Wilcox Aquifer	GW	16	16	16	16	16	16	Based on 125% of max. historical use.
Livestock	STK	31005175		C	1005	1005	175	Navarro	8	Trinity	01		C	175	8	17520	Nacatoch Aquifer	GW	11	11	11	11	11	11	Based on 125% of max. historical use.
Livestock	STK	31005175		C	1005	1005	175	Navarro	8	Trinity	01		C	175	8	17522	Other Aquifer	GW	103	109	120	131	142	154	Available supply limited by aquifer supply.

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Livestock	STK	31005175		C	1005	1005	175	Navarro	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	1,603	1,603	1,603	1,603	1,603	1,603	Based on max. historical use.
Manufacturing	MFG	31001175		C	1001	1001	175	Navarro	8	Trinity	01		C	175	8	17522	Other Aquifer	GW	1	1	1	1	1	1	Available supply limited by aquifer supply.
Manufacturing	MFG	31001175		C	1001	1001	175	Navarro	8	Trinity	00		C		8	08220	Lake Halbert	Corsicana	63	63	63	63	63	63	Based on Corsicana supply and Lake Halbert yield.
Manufacturing	MFG	31001175		C	1001	1001	175	Navarro	8	Trinity	03	171	C		8	08230	Navarro Mills Reservoir	TRA	450	450	450	450	450	450	Based on TRA supply Texas Industries
Manufacturing	MFG	31001175		C	1001	1001	175	Navarro	8	Trinity	03A	171	C		8	08230	Navarro Mills Reservoir	Corsicana (TRA)	608	678	730	783	851	918	Based on Corsicana (TRA) supply.
Mining	MIN	31003175		C	1003	1003	175	Navarro	8	Trinity	01		C	175	8	17510	Carrizo-Wilcox Aquifer	GW	74	74	74	74	74	74	Based on 125% of max. historical use.
Mining	MIN	31003175		C	1003	1003	175	Navarro	8	Trinity	01		C	175	8	17520	Nacatoch Aquifer	GW	38	38	38	38	38	38	Based on 125% of max. historical use.
PARKER COUNTY																									
Aledo	MUN	30009000		C	9	674	184	Parker	8	Trinity	01		C	184	8	18428	Trinity Aquifer	SG	166	166	166	137	137	137	Plans to drill another well this years and to go to SW in 3-5 yrs Lake Benbrook. Available supply limited by aquifer supply.
Annetta	MUN	30030000		C	30	814	184	Parker	8	Trinity	01		C	184	8	18422	Other Aquifer	SG	88	88	88	73	73	73	Each resident has own well. There is NO city water system. Available supply limited by available aquifer.
Azle	MUN	30046000	P	C	46	31	184	Parker	8	Trinity	03	190	C		8	086C0	West Fork less Bridgeport Local	TRWD	296	341	399	426	423	418	Based on TRWD supply.
Briar	MUN	30110000	P	C	110	682	184	Parker	8	Trinity	03A	190	C		8	086C0	West Fork less Bridgeport Local	Community WSC	103	106	122	130	133	136	Based on Community WSC (TRWD) supply.
Hudson Oaks	MUN	30422000		C	422	883	184	Parker	8	Trinity	01		C	184	8	18428	Trinity Aquifer	SG	122	122	122	101	101	101	Plans to drill another well in near-term, but convert to SW at some point. Available supply limited by aquifer supply.
Mineral Wells	MUN	30600000		C	600	407	184	Parker	12	Brazos	00		C		12	12170	Lake Mineral Wells	SS	0	0	0	0	0	0	Reservoir not connected.
Mineral Wells	MUN	30600000		C	600	407	184	Parker	12	Brazos	00		G		12	12160	Lake Palo Pinto	SS	98	106	115	128	138	150	Based on Table 2 demands.

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Reno	MUN	30744000		C	744	739	184	Parker	8	Trinity	01		C	184	8	18428	Trinity Aquifer	SG	147	147	147	121	121	121	Possibly drill 1 more well in next 10 yrs. Available supply limited by aquifer supply.
Reno	MUN	30744000		C	744	739	184	Parker	8	Trinity	03A	190	C		8	086C0	West Fork less Bridgeport Local	Springtown	187	209	360	432	460	512	Plans to tie on to Walnut Creek in future. Based on Springtown (TRWD) supply.
Springtown	MUN	30853000		C	853	574	184	Parker	8	Trinity	01		C	184	8	18428	Trinity Aquifer	SG	109	109	109	90	90	90	No more wells. More SW from Eagle Mtn. Available supply limited by aquifer supply.
Springtown	MUN	30853000		C	853	574	184	Parker	8	Trinity	03	190	C		8	086C0	West Fork less Bridgeport Local	TRWD	318	480	614	687	714	763	future - increase SW allowed. Based on TRWD supply & contracts.
Weatherford	MUN	30944000		C	944	634	184	Parker	8	Trinity	00		C		8	08050	Lake Weatherford	SS	1,448	1,339	1,252	1,158	1,064	977	Contract w/ TRWD for Lake Benbrook connection after 2001. Based on yield.
Weatherford	MUN	30944000		C	944	634	184	Parker	8	Trinity	03	190	C		8	08060	Lake Benbrook	TRWD	0	0	0	0	0	0	Need pipeline
Weatherford	MUN	30944000		C	944	634	184	Parker	12	Brazos	00		C		8	08050	Lake Weatherford	SS	88	81	76	70	64	59	Contract w/ TRWD for Lake Benbrook connection after 2001. Based on yield.
Weatherford	MUN	30944000		C	944	634	184	Parker	12	Brazos	03	190	C		8	08060	Lake Benbrook	TRWD	0	0	0	0	0	0	Need pipeline
Willow Park	MUN	30973000		C	973	756	184	Parker	8	Trinity	01		C	184	8	18428	Trinity Aquifer	SG	328	328	328	271	271	271	Did not return phone calls. Available supply limited by aquifer supply.
County -Other	MUN	30996184		C	996	757	184	Parker	12	Brazos	01		C	184	12	18428	Trinity Aquifer	GW	969	969	969	834	834	834	Based on 125% of max. historical use.
County -Other	MUN	30996184		C	996	757	184	Parker	12	Brazos	01		C	184	12	18429	Woodbine Aquifer	GW	3	3	3	3	3	3	Based on 125% of max. historical use.
County -Other	MUN	30996184		C	996	757	184	Parker	12	Brazos	01		C	184	12	18422	Other Aquifer	GW	48	48	48	48	48	48	Based on 125% of max. historical use.
County -Other	MUN	30996184		C	996	757	184	Parker	12	Brazos	00		G		12	12160	Lake Palo Pinto	Mineral Wells	297	422	435	490	490	490	Based on available supply minus Mineral Wells' demand & County Other (Brazos Basin).
County -Other	MUN	30996184		C	996	757	184	Parker	12	Brazos	03A	190	C		8	08010P	Bridgeport Local	Walnut Creek SUD (TRWD)	198	245	276	272	212	113	Based on Walnut Creek SUD (TRWD) supply & contract.
County -Other	MUN	30996184		C	996	757	184	Parker	8	Trinity	01		C	184	8	18428	Trinity Aquifer	GW	1,406	1,406	1,406	1,159	1,159	1,159	Available supply limited by aquifer supply.
County -Other	MUN	30996184		C	996	757	184	Parker	8	Trinity	01		C	184	8	18429	Woodbine Aquifer	GW	4	4	4	3	3	3	Available supply limited by aquifer supply.
County -Other	MUN	30996184		C	996	757	184	Parker	8	Trinity	01		C	184	8	18422	Other Aquifer	GW	68	68	68	56	56	56	Available supply limited by available aquifer.
County -Other	MUN	30996184		C	996	757	184	Parker	8	Trinity	03A	190	C		8	08010P	Bridgeport Local	Walnut Creek SUD (TRWD)	461	573	643	634	494	265	Based on Walnut Creek SUD (TRWD) supply & contract.

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County -Other	MUN	30996184		C	996	757	184	Parker	8	Trinity	03A	190	C		8	086C0	West Fork less Bridgeport Local	TRWD	668	845	871	930	730	401	Based on Parker Co. projected demands.
Irrigation	IRR	31004184		C	1004	1004	184	Parker	8	Trinity	01		C	184	8	18428	Trinity Aquifer	GW	24	24	24	20	20	20	Available supply limited by aquifer supply.
Irrigation	IRR	31004184		C	1004	1004	184	Parker	8	Trinity	00		C		8	184996	Irrigation Local Supply	IRLS	472	472	472	472	472	472	Based on IRLS data.
Irrigation	IRR	31004184		C	1004	1004	184	Parker	12	Brazos	01		C	184	12	18428	Trinity Aquifer	GW	69	69	69	59	59	59	Based on 125% of max. historical use.
Irrigation	IRR	31004184		C	1004	1004	184	Parker	12	Brazos	00		C		12	184996	Irrigation Local Supply	IRLS	1,317	1,317	1,317	1,317	1,317	1,317	Based on IRLS data.
Livestock	STK	31005184		C	1005	1005	184	Parker	8	Trinity	01		C	184	8	18428	Trinity Aquifer	GW	103	103	103	85	85	85	Available supply limited by aquifer supply.
Livestock	STK	31005184		C	1005	1005	184	Parker	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	1,026	1,026	1,026	1,026	1,026	1,026	Based on max. historical use.
Livestock	STK	31005184		C	1005	1005	184	Parker	12	Brazos	01		C	184	12	18428	Trinity Aquifer	GW	125	125	125	108	108	108	Based on 125% of max. historical use.
Livestock	STK	31005184		C	1005	1005	184	Parker	12	Brazos	00		C		12	12997	Livestock Local Supply	SW	896	896	896	896	896	896	Based on max. historical use.
Manufacturing	MFG	31001184		C	1001	1001	184	Parker	8	Trinity	01		C	184	8	18428	Trinity Aquifer	GW	18	18	18	15	15	15	Available supply limited by aquifer supply.
Manufacturing	MFG	31001184		C	1001	1001	184	Parker	8	Trinity	00		C		8	08050	Lake Weatherford	SW	244	226	211	195	179	164	Based on yield.
Manufacturing	MFG	31001184		C	1001	1001	184	Parker	12	Brazos	01		C	184	12	18428	Trinity Aquifer	GW	43	43	43	37	37	37	Based on 125% of max. historical use.
Manufacturing	MFG	31001184		C	1001	1001	184	Parker	12	Brazos	00		G		12	12160	Lake Palo Pinto	Mineral Wells	3	4	4	4	4	4	Based on yield.
Mining	MIN	31003184		C	1003	1003	184	Parker	12	Brazos	00		C		12	12999	Other Local Supply	SW	242	242	242	242	242	242	Brazos Diversion
Mining	MIN	31003184		C	1003	1003	184	Parker	8	Trinity	01		C	184	8	18428	Trinity Aquifer	GW	50	50	50	41	41	41	Available supply limited by aquifer supply.
Mining	MIN	31003184		C	1003	1003	184	Parker	12	Brazos	00		G		12	12150	Possum Kingdom (BRA)	BRA	35	35	35	35	35	35	Vulcan Materials. Contract with BRA.
Steam Electric Power	PWR	31002184		C	1002	1002	184	Parker	8	Trinity	00		C		8	08050	Lake Weatherford	Weatherford	220	204	191	177	163	150	North Texas Plant (Brazos Electric Co-Op). Based on yield.
ROCKWALL COUNTY																									
Dallas	MUN	30227000	P	C	227	151	199	Rockwall	8	Trinity	02	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	0	0	0	0	0	0	Based on DWU supply.
Dallas	MUN	30227000	P	C	227	151	199	Rockwall	8	Trinity	02	206800	C		8	08170	Lake Ray Hubbard	DWU	3	3	4	8	9	10	Based on DWU supply.

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Dallas	MUN	30227000	P	C	227	151	199	Rockwall	8	Trinity	02	206800	D		5	05010	Tawakoni (Dallas)	DWU	8	9	15	20	24	28	Based on DWU supply.
Heath	MUN	30388000		C	388	702	199	Rockwall	8	Trinity	03A	160	C		8	080C0	Lake Lavon/Reuse	NTMWD thru Rockwall thru RCH WSC	443	450	492	556	616	709	Based on NTMWD supply.
Heath	MUN	30388000		C	388	702	199	Rockwall	8	Trinity	03A	160	C		2	020C0	Lake Texoma	NTMWD thru Rockwall thru RCH WSC	245	252	279	319	358	418	Based on NTMWD supply.
Heath	MUN	30388000		C	388	702	199	Rockwall	8	Trinity	03A	160	D		3	030C0	Chapman (NTMWD)	NTMWD thru Rockwall thru RCH WSC	172	173	190	216	241	279	Based on NTMWD supply.
Rockwall	MUN	30766000		C	766	513	199	Rockwall	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	2,374	3,792	4,476	4,894	5,350	5,775	Based on NTMWD supply.
Rockwall	MUN	30766000		C	766	513	199	Rockwall	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	1,312	2,122	2,534	2,808	3,111	3,404	Based on NTMWD supply.
Rockwall	MUN	30766000		C	766	513	199	Rockwall	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	920	1,460	1,731	1,903	2,092	2,272	Based on NTMWD supply.
Rowlett	MUN	30777000	P	C	777	521	199	Rockwall	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	784	1,037	1,142	1,321	1,513	1,802	Based on NTMWD supply.
Rowlett	MUN	30777000	P	C	777	521	199	Rockwall	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	433	580	646	758	880	1,062	Based on NTMWD supply.
Rowlett	MUN	30777000	P	C	777	521	199	Rockwall	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	304	399	442	514	592	709	Based on NTMWD supply.
Royse City	MUN	30779000	P	C	779	522	199	Rockwall	5	Sabine	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	417	651	711	1,299	1,321	1,363	Based on NTMWD supply.
Royse City	MUN	30779000	P	C	779	522	199	Rockwall	5	Sabine	03	160	C		2	020C0	Lake Texoma	NTMWD	231	365	403	745	768	803	Based on NTMWD supply.
Royse City	MUN	30779000	P	C	779	522	199	Rockwall	5	Sabine	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	162	251	275	505	517	536	Based on NTMWD supply.
Wylie	MUN	30991000	P	C	991	669	199	Rockwall	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	7	4	4	3	3	3	Based on NTMWD supply.
Wylie	MUN	30991000	P	C	991	669	199	Rockwall	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	4	2	2	2	2	2	Based on NTMWD supply.
Wylie	MUN	30991000	P	C	991	669	199	Rockwall	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	3	2	2	1	1	1	Based on NTMWD supply.
County -Other	MUN	30996199		C	996	757	199	Rockwall	5	Sabine	01		C	199	5	19922	Other Aquifer	GW	183	183	183	183	183	183	Based on 125% of max. historical use.
County -Other	MUN	30996199		C	996	757	199	Rockwall	5	Sabine	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	248	0	0	0	29	104	Based on NTMWD supply.
County -Other	MUN	30996199		C	996	757	199	Rockwall	5	Sabine	03	160	C		2	020C0	Lake Texoma	NTMWD	137	0	0	0	17	61	Based on NTMWD supply.
County -Other	MUN	30996199		C	996	757	199	Rockwall	5	Sabine	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	96	0	0	0	11	41	Based on NTMWD supply.
County -Other	MUN	30996199		C	996	757	199	Rockwall	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	1,130	184	153	27	324	620	Based on NTMWD supply.
County -Other	MUN	30996199		C	996	757	199	Rockwall	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	625	103	86	16	188	366	Based on NTMWD supply.
County -Other	MUN	30996199		C	996	757	199	Rockwall	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	438	71	59	11	127	244	Based on NTMWD supply.

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County -Other	MUN	30996199		C	996	757	199	Rockwall	8	Trinity	03		C		8	36147	Reuse		1,120	1,120	1,120	1,120	1,120	1,120	Reuse by NTMWD Buffalo Creek
Livestock	STK	31005199		C	1005	1005	199	Rockwall	5	Sabine	01		C	199	5	19922	Other Aquifer	GW	5	5	5	5	5	5	Based on 125% of max. historical use.
Livestock	STK	31005199		C	1005	1005	199	Rockwall	5	Sabine	00		C		5	05997	Livestock Local Supply	SW	32	32	32	32	32	32	Based on max. historical use.
Livestock	STK	31005199		C	1005	1005	199	Rockwall	8	Trinity	01		C	199	8	19922	Other Aquifer	GW	19	19	19	19	19	19	Based on 125% of max. historical use.
Livestock	STK	31005199		C	1005	1005	199	Rockwall	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	136	136	136	136	136	136	Based on max. historical use.
Manufacturing	MFG	31001199		C	1001	1001	199	Rockwall	5	Sabine	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	3	0	0	0	0	0	Based on NTMWD supply.
Manufacturing	MFG	31001199		C	1001	1001	199	Rockwall	5	Sabine	03	160	C		2	020C0	Lake Texoma	NTMWD	2	0	0	0	0	0	Based on NTMWD supply.
Manufacturing	MFG	31001199		C	1001	1001	199	Rockwall	5	Sabine	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	1	0	0	0	0	0	Based on NTMWD supply.
Manufacturing	MFG	31001199		C	1001	1001	199	Rockwall	8	Trinity	03	160	C		8	080C0	Lake Lavon/Reuse	NTMWD	37	3	2	2	2	1	Based on NTMWD supply.
Manufacturing	MFG	31001199		C	1001	1001	199	Rockwall	8	Trinity	03	160	C		2	020C0	Lake Texoma	NTMWD	20	1	1	1	1	1	Based on NTMWD supply.
Manufacturing	MFG	31001199		C	1001	1001	199	Rockwall	8	Trinity	03	160	D		3	030C0	Chapman (NTMWD)	NTMWD	14	1	1	1	1	1	Based on NTMWD supply.
Mining	MIN	31003199		C	1003	1003	199	Rockwall	5	Sabine	00		C		5	05999	Other Local Supply	SW	33	33	33	33	33	33	Based on max. historical use.
TARRANT COUNTY																									
Arlington	MUN	30037000		C	37	25	220	Tarrant	8	Trinity	00		C		8	08120	Lake Arlington	SS	0	0	0	0	0	0	Not reliable for water supply due to minimum elevation requirement to allow power plant use.
Arlington	MUN	30037000		C	37	25	220	Tarrant	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	71,421	69,945	76,195	73,594	68,922	67,234	Based on TRWD supply.
Azle	MUN	30046000	P	C	46	31	220	Tarrant	8	Trinity	03	190	C		8	086C0	West Fork less Bridgeport Local	TRWD	1,594	1,824	2,237	2,375	2,396	2,409	Based on TRWD supply.
Bedford	MUN	30067000		C	67	44	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	654	654	654	654	654	654	GW is for emergency back up only. Available supply limited by aquifer supply.
Bedford	MUN	30067000		C	67	44	220	Tarrant	8	Trinity	03	171	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRA	9,789	9,561	9,645	8,836	8,075	7,485	100% water from TRA. Based on TRA supply.

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Benbrook	MUN	30075000		C	75	51	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG - Benbrook WSA	189	189	189	189	189	189	Available supply limited by aquifer supply.
Benbrook	MUN	30075000		C	75	51	220	Tarrant	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	5,200	5,108	5,630	5,467	5,203	4,989	Based on TRWD supply.
Benbrook	MUN	30075000		C	75	51	220	Tarrant	8	Trinity	00	190	C		8	08060	Lake Benbrook	TRWD	4,671	3,391	2,958	2,484	2,024	1,617	Based on TRWD supply.
Blue Mound	MUN	30093000		C	93	62	220	Tarrant	8	Trinity	03A	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	Tecon (TRWD)	337	306	337	319	298	280	Based on TRWD supply.
Briar	MUN	30110000	P	C	110	682	220	Tarrant	8	Trinity	03A	190	C		8	086C0	West Fork less Bridgeport Local	Community WSC	545	601	714	693	685	679	Based on Community WSC (TRWD) supply.
Burleson	MUN	30131000		C	131	87	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	373	391	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Colleyville	MUN	30186000		C	186	125	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	198	198	198	198	198	198	Available supply limited by aquifer supply.
Colleyville	MUN	30186000		C	186	125	220	Tarrant	8	Trinity	03	171	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRA	6,297	8,461	10,882	10,530	10,003	9,616	Based on TRA supply.
Crowley	MUN	30218000		C	218	145	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	83	83	83	83	83	83	GW used as backup. Probably no more wells. Plans to increase SW from Ft Worth. Available supply limited by aquifer supply.
Crowley	MUN	30218000		C	218	145	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	1,000	1,054	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Dalworthington Gardens.	MUN	30228000		C	228	692	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	74	74	74	74	74	74	Plans to increase SW from Ft Worth. Available supply limited by aquifer supply.

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Dalworthington Gardens	MUN	30228000		C	228	692	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	578	762	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Edgecliff Village	MUN	30267000		C	267	180	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	606	537	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Euless	MUN	30285000		C	285	193	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	550	550	550	550	550	550	Would like to use GW as long as possible, but will go to SW when more is needed. Available supply limited by aquifer supply.
Euless	MUN	30285000		C	285	193	220	Tarrant	8	Trinity	03	171	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRA	8,291	7,192	9,274	8,478	7,784	7,203	Based on TRA supply.
Everman	MUN	30287000		C	287	194	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	148	148	148	148	148	148	Available supply limited by aquifer supply.
Everman	MUN	30287000		C	287	194	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	726	627	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Forest Hill	MUN	30303000		C	303	206	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	1,677	1,557	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Fort Worth	MUN	30311000		C	311	213	220	Tarrant	8	Trinity	03	190	C		8	086C0	West Fork less Bridgeport Local	TRWD	44,789	47,516	60,291	56,272	52,856	51,602	Based on TRWD supply.
Fort Worth	MUN	30311000		C	311	213	220	Tarrant	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	82,288	72,756	70,691	67,806	67,913	66,301	Based on TRWD supply.
Fort Worth	MUN	30311000		C	311	213	220	Tarrant	8	Trinity	03	190	C		8	08010P	Bridgeport Local	TRWD	7,645	7,484	6,558	6,406	6,697	7,186	Based on TRWD supply. Released from Bridgeport Local.
Fort Worth	MUN	30311000		C	311	213	220	Tarrant	8	Trinity	03	190	C		8	08060	Lake Benbrook	TRWD	646	432	347	282	226	178	Based on contract of 683 AF/Y.

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Grand Prairie	MUN	30353000	P	C	353	245	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	542	542	542	542	542	542	Possibly add 1.6 MGD from Joe Pool in future. Available supply limited by aquifer supply.
Grand Prairie	MUN	30353000	P	C	353	245	220	Tarrant	8	Trinity	03	206800	C		8	086D0	Elm Fork/Lake Grapevine System	DWU	3,025	4,360	0	0	0	0	Based on DWU supply. Contract expires in 2012.
Grand Prairie	MUN	30353000	P	C	353	245	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth (TRA)	591	533	0	0	0	0	Based on Ft Worth supply. Used in Tarrant County only. Contract expires in 2010.
Grapevine	MUN	30360000	P	C	360	249	220	Tarrant	8	Trinity	00		C		8	08070	Lake Grapevine	SS	1,668	1,668	1,668	1,668	1,668	1,668	Based on Grapevine's water right.
Grapevine	MUN	30360000	P	C	360	249	220	Tarrant	8	Trinity	03	171	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRA	7,129	8,104	9,186	8,961	8,542	8,206	Based on TRA supply.
Haltom City	MUN	30375000		C	375	261	220	Tarrant	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	6,688	6,272	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Haslet	MUN	30384000		C	384	879	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	46	46	46	46	46	46	Eventually go to SW - contract with Ft Worth. Available supply limited by aquifer supply.
Haslet	MUN	30384000		C	384	879	220	Tarrant	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	194	209	0	0	0	0	100% in Tarrant County. Based on Ft Worth's supply. Contract expires in 2010.
Hurst	MUN	30428000		C	428	293	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	303	303	303	303	303	303	GW is mostly for back during summer months. Available supply limited by aquifer supply.
Hurst	MUN	30428000		C	428	293	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	6,844	6,364	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Keller	MUN	30461000		C	461	315	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	0	0	0	0	0	0	No GW use. Buys SW from Ft Worth.
Keller	MUN	30461000		C	461	315	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	2,544	0	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2000.

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Keller	MUN	30461000		C	461	315	220	Tarrant	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	2,558	0	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2000.
Kennedale	MUN	30465000		C	465	318	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	256	256	256	256	256	256	Plans to drill 1 well in next couple of years @ 350 gpm. Available supply limited by aquifer supply.
Lake Worth Village	MUN	30501000		C	501	341	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	112	112	112	112	112	112	Plans to drill well in next 2-3 yrs. Available supply limited by aquifer supply.
Lake Worth Village	MUN	30501000		C	501	341	220	Tarrant	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	642	649	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Mansfield	MUN	30559000	P	C	559	384	220	Tarrant	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	5,609	6,385	8,593	9,544	11,590	13,336	Based on TRWD supply.
Mansfield	MUN	30559000	P	C	559	384	220	Tarrant	8	Trinity	03A	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	Arlington	5	5	5	5	4	4	Based on TRWD supply.
Newark	MUN	30635000	P	C	635	920	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	0	0	0	0	0	0	Could not get reach by phone. No demand projected for Tarrant County portion of city.
North Richland Hills	MUN	30642000		C	642	435	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	61	61	61	61	61	61	No answer by phone. Available supply limited by aquifer supply.
North Richland Hills	MUN	30642000		C	642	435	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	5,335	5,384	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
North Richland Hills	MUN	30642000		C	642	435	220	Tarrant	8	Trinity	03	171	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRA	5,322	5,397	6,187	5,969	5,703	5,573	Based on TRA supply.
Pantego	MUN	30677000		C	677	454	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	181	181	181	181	181	181	Almost built out. Will NOT need more water. Available supply limited by aquifer supply.

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Pelican Bay	MUN	30688000		C	688	795	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	34	34	34	34	34	34	Not very willing to volunteer information. Plans to drill 2 more wells this year. Available supply limited by aquifer supply.
Richland Hills	MUN	30748000		C	748	499	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	199	199	199	199	199	199	GW will be phased out and rely on Ft. Worth. Available supply limited by aquifer supply.
Richland Hills	MUN	30748000		C	748	499	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	1,197	1,259	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
River Oaks	MUN	30756000		C	756	505	220	Tarrant	8	Trinity	03	190	C		8	086C0	West Fork less Bridgeport Local	TRWD	1,178	992	832	789	737	698	Based on TRWD supply.
Saginaw	MUN	30785000		C	785	527	220	Tarrant	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	2,183	2,359	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Sansom Park Village		30802000		C	802	539	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	33	33	33	33	33	33	No plans for any wells, but 2 more wells are needed. Available supply limited by aquifer supply.
Sansom Park Village	MUN	30802000		C	802	539	220	Tarrant	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	557	496	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
Southlake	MUN	30846000	P	C	846	570	220	Tarrant	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	6,582	0	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2002.
Watauga	MUN	30942000		C	942	632	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	4,043	3,904	0	0	0	0	No GW use. Based on Ft Worth supply. Contract expires in 2010.
Westworth Village	MUN	30959000		C	959	644	220	Tarrant	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	343	305	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
White Settlement	MUN	30964000		C	964	651	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	SG	205	205	205	205	205	205	Available supply limited by aquifer supply.

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White Settlement	MUN	30964000		C	964	651	220	Tarrant	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	2,207	1,918	0	0	0	0	Based on Ft Worth's supply. Contract expires in 2010.
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	GW	95	95	95	95	95	95	Available supply limited by aquifer supply.
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	01		C	220	8	22029	Woodbine Aquifer	GW	766	766	766	766	766	766	Available supply limited by aquifer supply.
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	01		C	220	8	22022	Other Aquifer	GW	207	207	207	207	207	207	Available supply limited by aquifer supply.
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	627	640	858	971	1,367	1,058	Based on TRWD supply.
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	1,172	2,641	0	0	0	0	Based on Ft Worth supply. Contracts expires in 2010.
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	03	171	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRA	1,346	1,615	2,172	2,460	3,308	2,692	Based on TRA supply.
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	03	190	C		8	086C0	West Fork less Bridgeport Local	TRWD	1,893	1,907	2,517	2,875	4,029	3,118	Based on TRWD supply. Does not include Fort Worth allotment.
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	1,179	2,627	0	0	0	0	Based on Ft Worth's supply. Contracts expire in 2010.
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	00		C		8	08070	Lake Grapevine	Grapevine	1	1	1	1	1	1	Based on Grapevine's water right & municipal sales
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	00	190	C		8	08060	Lake Benbrook	TRWD	1,515	1,012	813	660	530	418	Based on TRWD supply. Contracts expires between 2008 and 2023.
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	00		C		8	36146	Reuse		2,240	2,240	2,240	2,240	2,240	2,240	Reuse by Water Chase Golf Course.
Irrigation	IRR	31004220		C	1004	1004	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	GW	15	15	15	15	15	15	Available supply limited by aquifer supply.
Irrigation	IRR	31004220		C	1004	1004	220	Tarrant	8	Trinity	00		C		8	220996	Irrigation Local Supply	IRLS	5,326	4,386	4,386	4,386	4,386	4,386	Based on IRLS data.
Livestock	STK	31005220		C	1005	1005	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	GW	414	414	414	414	414	414	Available supply limited by aquifer supply.

A		B		C	D	E	F		G		H	I	J	K	L	M	N		O	P	Q	R	S	T	
Water User Group	USE	Water User Group Identifier	Partial County	Regional Water Planning Group Letter	Sequence Number	City Number	County Number	COUNTY NAME	Basin Number	BASIN NAME	Type of Water Supply Source	Major Water Provider Number (TWDB Alpha Number)	Location of Supply Source (RWPG Letter)	Location of Groundwater Supply Source (County Number)	Location of Supply Source (Basin Number)	Specific Source Identifier	Specific Source Name	PURCHASED FROM	Available Supply for the Year 2000 (Ac-Ft)	Available Supply for the Year 2010 (Ac-Ft)	Available Supply for the Year 2020 (Ac-Ft)	Available Supply for the Year 2030 (Ac-Ft)	Available Supply for the Year 2040 (Ac-Ft)	Available Supply for the Year 2050 (Ac-Ft)	Comments
Livestock	STK	31005220		C	1005	1005	220	Tarrant	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	438	438	438	438	438	438	Based on max. historical use.
Manufacturing	MFG	31001220		C	1001	1001	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	GW	396	396	396	396	396	396	Available supply limited by aquifer supply.
Manufacturing	MFG	31001220		C	1001	1001	220	Tarrant	8	Trinity	03	190	C		8	086C0	West Fork less Bridgeport Local	TRWD	4,416	6,066	8,751	10,250	10,733	11,616	Based on TRWD supply.
Manufacturing	MFG	31001220		C	1001	1001	220	Tarrant	8	Trinity	03	298900	C		8	086C0	West Fork less Bridgeport Local	Fort Worth	2,272	3,285	3,513	4,521	5,197	6,031	Based on Ft Worth's supply.
Manufacturing	MFG	31001220		C	1001	1001	220	Tarrant	8	Trinity	00		C		8	08120	Lake Arlington	SW	0	0	0	0	0	0	Not reliable for water supply.
Manufacturing	MFG	31001220		C	1001	1001	220	Tarrant	8	Trinity	00	190	C		8	08060	Lake Benbrook	TRWD	1	1	1	1	1	1	Based on TRWD supply.
Manufacturing	MFG	31001220		C	1001	1001	220	Tarrant	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	13,161	18,319	26,851	31,168	32,762	35,448	Based on TRWD supply.
Manufacturing	MFG	31001220		C	1001	1001	220	Tarrant	8	Trinity	03	298900	C		8	086E0	Cedar Creek/ Richland-Chambers System	Fort Worth	5,265	7,716	8,386	10,692	12,339	14,314	Based on Ft Worth's supply.
Manufacturing	MFG	31001220		C	1001	1001	220	Tarrant	8	Trinity	03	171	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRA	251	339	461	516	519	542	Based on TRA supply.
Mining	MIN	31003220		C	1003	1003	220	Tarrant	8	Trinity	00		C		8	08999	Other Local Supply	SW	103	103	103	103	103	105	Based on max. historical use.
Steam Electric Power	PWR	31002220		C	1002	1002	220	Tarrant	8	Trinity	01		C	220	8	22028	Trinity Aquifer	GW	1	1	1	1	1	1	Available supply limited by aquifer supply.
Steam Electric Power	PWR	31002220		C	1002	1002	220	Tarrant	8	Trinity	00		C		8	08120	Lake Arlington	SW	0	0	0	0	0	0	Not reliable for water supply.
Steam Electric Power	PWR	31002220		C	1002	1002	220	Tarrant	8	Trinity	03	190	C		8	086E0	Cedar Creek/ Richland-Chambers System	TRWD	4,939	5,102	6,472	6,083	6,733	6,368	Handley Power Plant. Based on TRWD contract (per Bennett Jones)

A		B		C	D	E	F		G		H	I	J	K	L	M	N		O	P	Q	R	S	T	
Water User Group	USE	**Water User Group Identifier**	Partial County	**Regional Water Planning Group Letter**	**Sequence Number**	**City Number**	**County Number**	COUNTY NAME	**Basin Number**	BASIN NAME	**Type of Water Supply Source**	**Major Water Provider Number (TWDB Alpha Number)**	**Location of Supply Source (RWPG Letter)**	**Location of Groundwater Supply Source (County Number)**	**Location of Supply Source (Basin Number)**	**Specific Source Identifier**	**Specific Source Name**	PURCHASED FROM	**Available Supply for the Year 2000 (Ac-Ft)**	**Available Supply for the Year 2010 (Ac-Ft)**	**Available Supply for the Year 2020 (Ac-Ft)**	**Available Supply for the Year 2030 (Ac-Ft)**	**Available Supply for the Year 2040 (Ac-Ft)**	**Available Supply for the Year 2050 (Ac-Ft)**	Comments
Mining	MIN	31003220		C	1003	1003	220	Tarrant	8	Trinity	03	190	C		8	086C0	West Fork less Bridgeport Local	TRWD	102	89	91	89	85	83	Based on TRWD supply and contracts.
Steam Electric Power	PWR	31002220		C	1002	1002	220	Tarrant	8	Trinity	03	190	C		8	086C0	West Fork less Bridgeport Local	TRWD	2,449	2,496	3,116	2,956	3,259	3,084	Based on TRWD supply. Eagle Mountain Plant
Manufacturing	MFG	31001220		C	1001	1001	220	Tarrant	8	Trinity	00		C		8	35081	Reuse	Lake Worth	40,000	35,000	30,000	25,000	25,000	25,000	Lake Worth for cooling purposes @ Lockheed.
County -Other	MUN	30996220		C	996	757	220	Tarrant	8	Trinity	00		C		8	36147	Reuse		100	100	100	100	100	100	Reuse by Azle for golf.
WISE COUNTY																									
Alvord	MUN	30019000		C	19	810	249	Wise	8	Trinity	01		C	249	8	24928	Trinity Aquifer	SG	137	137	137	115	115	115	Stay with GW as long as possible. May drill another well. Available supply limited by aquifer supply.
Aurora	MUN	30044000		C	44	816	249	Wise	8	Trinity	01		C	249	8	24922	Other Aquifer	PG	92	92	92	77	77	77	Available supply limited aquifer supply.
Boyd	MUN	30103000		C	103	760	249	Wise	8	Trinity	01		C	249	8	24928	Trinity Aquifer	SG	124	124	124	104	104	104	Plans to connect to Walnut Creek in future. Available supply limited by aquifer supply.
Briar	MUN	30110000	P	C	110	682	249	Wise	8	Trinity	03A	190	C		8	086C0	West Fork less Bridgeport Local	Community WSC	158	157	172	175	163	150	Based on Community WSC (TRWD) supply.
Bridgeport	MUN	30113000		C	113	76	249	Wise	8	Trinity	03	190	C		8	08010P	Bridgeport Local	TRWD	795	740	865	904	930	961	Based on TRWD supply & contract.
Chico	MUN	30163000		C	163	842	249	Wise	8	Trinity	01		C	249	8	24928	Trinity Aquifer	SG	137	137	137	115	115	115	Plans to stay with GW. Available supply limited by aquifer supply.
Chico	MUN	30163000		C	163	842	249	Wise	8	Trinity	03A	190	C		8	08010P	Bridgeport Local	West Wise WSC	24	27	6	27	25	24	Based on West Wise WSC (TRWD) supply & % of contract.
Decatur	MUN	30235000		C	235	153	249	Wise	8	Trinity	03A	190	C		8	08010P	Bridgeport Local	Wise Co WSD	1,147	1,090	1,169	1,194	1,117	1,069	Based on TRWD (Wise Co. WSD) supply & contract.
Newark	MUN	30635000	P	C	635	920	249	Wise	8	Trinity	01		C	249	8	24928	Trinity Aquifer	SG	92	92	92	77	77	77	Could not reach by phone. Available supply limited by aquifer supply.
Rhome	MUN	30745000		C	745	946	249	Wise	8	Trinity	01		C	249	8	24928	Trinity Aquifer	SG	78	78	78	65	65	65	Trying to go to SW. Adding 100 gpm well in 2 weeks (already included in 2000 #). Available supply limited by aquifer supply.
County -Other	MUN	30996249		C	996	757	249	Wise	8	Trinity	01		C	249	8	24928	Trinity Aquifer	GW	2,771	2,771	2,771	2,322	2,322	2,322	Available supply limited by aquifer supply.
County -Other	MUN	30996249		C	996	757	249	Wise	8	Trinity	00	190	C		8	08010P	Bridgeport Local	TRWD	1,521	1,799	2,379	2,612	2,736	2,714	Based on TRWD supply.

A		B		C	D	E	F		G		H	I	J	K	L	M	N		O	P	Q	R	S	T	
Water User Group	USE	**Water User Group Identifier**	Partial County	**Regional Water Planning Group Letter**	**Sequence Number**	**City Number**	**County Number**	COUNTY NAME	**Basin Number**	BASIN NAME	**Type of Water Supply Source**	**Major Water Provider Number (TWDB Alpha Number)**	**Location of Supply Source (RWPG Letter)**	**Location of Groundwater Supply Source (County Number)**	**Location of Supply Source (Basin Number)**	**Specific Source Identifier**	**Specific Source Name**	PURCHASED FROM	**Available Supply for the Year 2000 (Ac-Ft)**	**Available Supply for the Year 2010 (Ac-Ft)**	**Available Supply for the Year 2020 (Ac-Ft)**	**Available Supply for the Year 2030 (Ac-Ft)**	**Available Supply for the Year 2040 (Ac-Ft)**	**Available Supply for the Year 2050 (Ac-Ft)**	Comments
Irrigation	IRR	31004249		C	1004	1004	249	Wise	8	Trinity	01		C	249	8	24928	Trinity Aquifer	GW	251	251	251	210	210	210	Available supply limited by aquifer supply.
Irrigation	IRR	31004249		C	1004	1004	249	Wise	8	Trinity	00		C		8	249996	Irrigation Local Supply	IRLS	714	714	714	714	714	714	Based on IRLS data.
Livestock	STK	31005249		C	1005	1005	249	Wise	8	Trinity	01		C	249	8	24928	Trinity Aquifer	GW	1,033	1,033	1,033	866	866	866	Available supply limited by aquifer supply.
Livestock	STK	31005249		C	1005	1005	249	Wise	8	Trinity	00		C		8	08997	Livestock Local Supply	SW	1,117	1,117	1,117	1,117	1,117	1,117	Based on max. historical use.
Manufacturing	MFG	31001249		C	1001	1001	249	Wise	8	Trinity	00		C		8	08999	Other Local Supply	SW	8,000	8,000	8,000	8,000	8,000	8,000	Based on Other Local Supply
Manufacturing	MFG	31001249		C	1001	1001	249	Wise	8	Trinity	01		C	249	8	24922	Other Aquifer	GW	14	14	14	12	12	12	Available supply limited aquifer supply.
Manufacturing	MFG	31001249		C	1001	1001	249	Wise	8	Trinity	00	190	C		8	08010P	Bridgeport Local	TRWD	413	392	430	438	441	447	Based on TRWD supply.
Mining	MIN	31003249		C	1003	1003	249	Wise	8	Trinity	01		C	249	8	24928	Trinity Aquifer	GW	239	239	239	200	200	200	Available supply limited by aquifer supply.
Mining	MIN	31003249		C	1003	1003	249	Wise	8	Trinity	03	190	C		8	08010P	Bridgeport Local	TRWD	2,796	2,650	2,674	2,513	2,348	2,221	Based on TRWD supply & contract.
Mining	MIN	31003249		C	1003	1003	249	Wise	8	Trinity	00		C		8	08999	Other Local Supply	SW	8,084	8,084	8,084	8,084	8,084	8,084	Based on historical max use.

* UTRWD's present contract with DWU is limited to a total of 10 MGD to UTRWD for cities not specifically named in the contract. DWU has made no commitment for future service to cities not specifically named in the contract and future service will require future city council action.

Titles in **BOLD** are the columns required by TWDB

Dallas customers data based on DWU records
Fort Worth data based on Fort Worth records.
TRA data based on TRA records
TRWD data based on TRWD records
NTMWD data based on NTMWD records.

APPENDIX K

TEXAS WATER DEVELOPMENT BOARD TABLE 6
SUPPLY AVAILABLE BY MAJOR WATER PROVIDER

APPENDIX K
TEXAS WATER DEVELOPMENT BOARD TABLE 6
SUPPLY AVAILABLE BY MAJOR WATER PROVIDER

Introduction

One of the tables the Texas Water Development Board requires in the development of regional water plans is TWDB Table 6, which shows the water currently available to each Major Water Supplier, considering limitations imposed by existing facilities, contracts, water rights, and reliable supply. TWDB Table 6 is included at the end of this appendix. The TWDB requires that the table include the following information [56]:

A. Major Water Provider Name

B. Major Water Provider Number (TWDB Alpha Number)

C. Type of Water Supply Source (00=current surface water, 01=current groundwater, 02=system, 03=contract)

D. Major Water Provider Number Selling to Entity in Field A.

E. Regional Water Planning Group Where Supply Source Is Located (See map and key before TWDB Table 6)

F. County Number Where Supply Source Is Located (only for groundwater sources) (See key before TWDB Table 6)

G. Basin Number Where Supply Source Is Located (See key before TWDB Table 6)

H. Identification for Specific Source (See key before TWDB Table 6)

I. Name of Specific Source

J-O. Value for Supply Available for Major Water Provider for 2000, 2010, 2020, 2030, 2040, 2050

Although the Texas Water Development Board did not require TWDB Table 6 to be broken down by county, the county break-down was included to facilitate the production of TWDB Table 8.

Current Water Supplies Available to Major Water Providers

Tarrant Regional Water District (TRWD)

The Tarrant Regional Water District current obtains water from Lake Benbrook, Lake Bridgeport Local, Cedar Creek-Richland Chambers system, and the West Fork System less Bridgeport. TRWD also supplies water to two other Major Water Providers: Trinity River Authority and Fort Worth. The Tarrant Regional customer demands are projected to exceed the currently connected TRWD sources by 2010. TRWD has almost 500,000 acre-feet per year of water that could be made available to their customers with additional pipelines and pump stations.

Fort Worth

The Fort Worth water supply system depends on supplies from the Tarrant Regional Water District System. The TRWD sources used by Fort Worth include Lake Benbrook, the Cedar Creek-Richland Chambers system, and the West Fork less Bridgeport system. Fort Worth customers will also need additional water supplies in 2010. The majority of the Fort Worth customer contracts expire at the end of 2010.

Trinity River Authority (TRA)

The Trinity River Authority's water supply consists of Navarro Mills Reservoir, Joe Pool Lake, Lake Bardwell, Trinity River diversion, TRWD's Cedar Creek-Richland Chambers System, and reuse. TRA has additional contracts with several entities in Ellis County totaling 18,370 acre-feet per year of water. The water for these contracts would be provided by TWDB, but the connection to the TWDB pipeline does not currently exist. The TRA supplies can meet the needs of their customers until 2010. At that time, additional sources will be needed.

Dallas Water Utilities (DWU)

The Dallas Water Utilities water supply includes the Dallas Elm Fork system, Lake Ray Hubbard, and Lake Tawakoni. DWU also has water supplies in Lake Fork and Lake Palestine, but these sources are not yet connected and therefore are not considered available by the TWDB definition of current supplies.

The firm yield of DWU's currently connected supplies is less than the year 2000 demands for DWU and its customers. To meet year 2000 demands, DWU will make use

of the yield available from current return flows of treated wastewater around its lakes, which amounts to 49,300 acre-feet per year. The majority of DWU customer contracts expire between the years 2012 and 2022. Other projects are currently underway to add to the reliable supply available to DWU:

- Irving and Upper Trinity RWD are constructing transmission facilities to bring Lake Chapman water to Lake Lewisville, which will make 65,700 acre-feet per year available by 2003.
- DWU is currently designing transmission facilities from Lake Fork, which will make 120,000 acre-feet available in the near future.

North Texas Municipal Water District (NTMWD)

The North Texas Municipal Water District water supply includes Lake Lavon, reuse, Lake Texoma, and Lake Chapman. The North Texas MWD customer demand is projected to exceed the currently available NTMWD supplies by 2010.

Key to Texas Water Development Board Codes in TWDB Table 6

Major Water Provider Numbers

The TWDB assigned identification numbers for all of the entities determined to be Major Water Providers within their regions. The following are the five Major Water Providers in Region C:

160	North Texas Municipal Water District
171	Trinity River Authority
190	Tarrant Regional Water District
206800	Dallas Water Utilities
298900	City of Fort Worth

Regional Water Planning Groups

The TWDB divided the State of Texas into 16 regions in Senate Bill One (SB1) for the purpose of water planning. The following are the 16 SB1 regions:

A	Panhandle Water Planning Group
B	Region B Water Planning Group
C	Region C Water Planning Group
D	North East Texas Regional Water Planning Group
E	Far West Texas Water Planning Group
F	Region F Water Planning Group
G	Brazos G Water Planning Group
H	Region H Water Planning Group
I	East Texas Water Planning Group
J	Plateau Water Planning Group
K	Lower Colorado Water Planning Group
L	South Central Texas Water Planning Group
M	Rio Grande Water Planning Group
N	Coastal Bend Water Planning Group
O	Llano-Estacado Water Planning Group
P	Lavaca Water Planning Group

County Number Code

The Texas Water Development Board (TWDB) assigned county code numbers to every county in Texas. The following counties are included in Region C (Johnson County is actually in Region G, but Region C is responsible for supplying two cities with surface water):

43	Collin
49	Cooke
57	Dallas
61	Denton
70	Ellis
74	Fannin
81	Freestone
91	Grayson
107	Henderson

119	Jack
126	Johnson
129	Kaufman
175	Navarro
184	Parker
199	Rockwall
220	Tarrant
249	Wise

Basin Numbers

The TWDB also assigned numbers to correspond to the various river basins in Texas. The following are the river basins in Region C:

2	Red River Basin
3	Sulphur River Basin
5	Sabine River Basin
6	Neches River Basin
8	Trinity River Basin
12	Brazos River Basin

Specific Source Identifier

The TWDB has developed an encoding theme for the various water supply sources throughout the State. Water supply systems were assigned identification numbers by the TWDB. Reservoirs and reuse projects were also assigned codes based on the number of the river basin in which they are located and the TWDB assigned location along that river or stream. None of the Region C Major Water Providers use groundwater sources as part of their reliable supply. The following are the specific source identifiers used in the Region C version of TWDB Table 5:

020C0	Lake Texoma (NTMWD)
030C0	Chapman (NTMWD)
05010	Lake Tawakoni (DWU)
080C0	Lake Lavon/Reuse (NTMWD)
08010P	Bridgeport Local Supply
08060	Lake Benbrook

08130	Joe Pool Lake
08170	Lake Ray Hubbard (DWU)
08190P	Cedar Creek/Richland-Chambers System
08210	Lake Bardwell
08230	Navarro Mills
08400	Livingston (TXU-Fairfield)
086C0	West Fork less Bridgeport Local
086D0	Elm Fork/Lake Grapevine System
35081	Reuse (TRA)

TWDB Table 6
Current Water Supplies Available to the RWPG by Major Water Provider of Municipal and Manufacturing Water

A	B	C	D	E	F	G						H	I	J	K	L	M	N	O	
Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Type of Water Supply Source**	**Recipient of Water from the Major Provider. User Number (TWDB Alpha Number)**	**Location of Supply Source (RWPG Letter)**	**Location of Groundwater Supply Source (County Number)**	**Location of Supply Source (Basin Number)**	Location of Supply Source (Basin NAME)	Supply Source Sent to Basin Number	Supply Source Sent to Basin Name	Supply Source Sent to County Number	Supply Source Sent to County Name	**Specific Source Indentifier**	**Specific Source Name**	**Available Supply to Provider for the Year 2000 (Ac-Ft)**	**Available Supply to Provider for the Year 2010 (Ac-Ft)**	**Available Supply to Provider for the Year 2020 (Ac-Ft)**	**Available Supply to Provider for the Year 2030 (Ac-Ft)**	**Available Supply to Provider for the Year 2040 (Ac-Ft)**	**Available Supply to Provider for the Year 2050 (Ac-Ft)**	Notes
Tarrant Regional Water District	190	02		C		8	Trinity	8	Trinity	70	Ellis	086E0	Cedar Creek/Richland-Chambers System	99	148	223	289	323	364	Water available from TRWD Cedar Creek/Richland-Chambers System to TRWD customers in Ellis County.
Tarrant Regional Water District	190	02		C		8	Trinity	8	Trinity	107	Henderson	086E0	Cedar Creek/Richland-Chambers System	8,627	8,957	9,230	9,299	9,190	9,126	Water available from TRWD Cedar Creek/Richland-Chambers System to TRWD customers in Henderson County.
Tarrant Regional Water District	190	02		C		8	Trinity	8	Trinity	126	Johnson	086E0	Cedar Creek/Richland-Chambers System	2,423	2,781	2,829	3,285	3,685	4,136	Water available from TRWD Cedar Creek/Richland-Chambers System to TRWD customers in Johnson County. Includes Fort Worth Supply.
Tarrant Regional Water District	190	02		C		8	Trinity	8	Trinity	129	Kaufman	086E0	Cedar Creek/Richland-Chambers System	1,719	2,006	2,309	2,614	2,822	2,951	Water available from TRWD Cedar Creek/Richland-Chambers System to TRWD customers in Kaufman County.
Tarrant Regional Water District	190	02		C		8	Trinity	8	Trinity	175	Navarro	086E0	Cedar Creek/Richland-Chambers System	561	561	561	561	561	561	Water available from TRWD Cedar Creek/Richland-Chambers System to TRWD customers in Navarro County.
Tarrant Regional Water District	190	02		C		8	Trinity	8	Trinity	220	Tarrant	086E0	Cedar Creek/Richland-Chambers System	253,963	251,964	251,825	251,399	251,065	250,649	Water available from TRWD Cedar Creek/Richland-Chambers System to TRWD customers in Tarrant County. Includes Fort Worth and TRA portions.
Tarrant Regional Water District													**Cedar Creek/Richland-Chambers System Subtotal**	**267,392**	**266,417**	**266,977**	**267,447**	**267,646**	**267,787**	**Includes Fort Worth and TRA**

A	B	C	D	E	F	G						H	I	J	K	L	M	N	O	
Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Type of Water Supply Source**	**Recipient of Water from the Major Provider. User Number (TWDB Alpha Number)**	**Location of Supply Source (RWPG Letter)**	**Location of Groundwater Supply Source (County Number)**	**Location of Supply Source (Basin Number)**	Location of Supply Source (Basin NAME)	Supply Source Sent to Basin Number	Supply Source Sent to Basin Name	Supply Source Sent to County Number	Supply Source Sent to County Name	**Specific Source Indentifier**	**Specific Source Name**	**Available Supply to Provider for the Year 2000 (Ac-Ft)**	**Available Supply to Provider for the Year 2010 (Ac-Ft)**	**Available Supply to Provider for the Year 2020 (Ac-Ft)**	**Available Supply to Provider for the Year 2030 (Ac-Ft)**	**Available Supply to Provider for the Year 2040 (Ac-Ft)**	**Available Supply to Provider for the Year 2050 (Ac-Ft)**	Notes
Tarrant Regional Water District	190	02		C		8	Trinity	8	Trinity	61	Denton	086C0	West Fork less Bridgeport Local	2,499	3,851	0	0	0	0	TRWD West Fork System allocated to Denton County customers (Fort Worth customers).
Tarrant Regional Water District	190	02		C		8	Trinity	8	Trinity	184	Parker	086C0	West Fork less Bridgeport Local	1,572	1,981	2,366	2,605	2,460	2,230	TRWD West Fork System allocated to Parker County customers. Includes Fort Worth customers.
Tarrant Regional Water District	190	02		C		8	Trinity	8	Trinity	220	Tarrant	086C0	West Fork less Bridgeport Local	82,371	79,611	82,062	80,820	79,977	79,320	TRWD West Fork System allocated to Tarrant County customers. Includes Fort Worth customers.
Tarrant Regional Water District	190	02		C		8	Trinity	8	Trinity	249	Wise	086C0	West Fork less Bridgeport Local	158	157	172	175	163	150	TRWD West Fork System allocated to Wise County customers.
Tarrant Regional Water District													**West Fork less Bridgeport Local Subtotal**	**86,600**	**85,600**	**84,600**	**83,600**	**82,600**	**81,700**	**Includes Fort Worth**
Tarrant Regional Water District	**190**	**00**		**C**		**8**	**Trinity**	**8**	**Trinity**	**220**	**Tarrant**	**08060**	**Lake Benbrook**	**6,833**	**6,833**	**6,600**	**6,400**	**6,200**	**6,000**	**TRWD Lake Benbrook supply allocated to Tarrant County.**
Tarrant Regional Water District	190	00		C		8	Trinity	8	Trinity	119	Jack	08010P	Bridgeport Local Supply	0	0	0	0	0	0	TRWD Bridgeport Local Supply allocated to Jack County customers.
Tarrant Regional Water District	190	00		C		8	Trinity	8	Trinity	184	Parker	08010P	Bridgeport Local Supply	461	573	643	634	494	265	TRWD Bridgeport Local Supply allocated to Parker County customers in the Trinity Basin.
Tarrant Regional Water District	190	00		C		8	Trinity	12	Brazos	184	Parker	08010P	Bridgeport Local Supply	198	245	276	272	212	113	TRWD Bridgeport Local Supply allocated to Parker County customers in the Brazos Basin.
Tarrant Regional Water District	190	00		C		8	Trinity	8	Trinity	220	Tarrant	08010P	Bridgeport Local Supply	7,645	7,484	6,558	6,406	6,697	7,186	TRWD Bridgeport Local Supply allocated to Tarrant County customers.

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Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Type of Water Supply Source**	**Recipient of Water from the Major Provider. User Number (TWDB Alpha Number)**	**Location of Supply Source (RWPG Letter)**	**Location of Groundwater Supply Source (County Number)**	**Location of Supply Source (Basin Number)**	Location of Supply Source (Basin NAME)	Supply Source Sent to Basin Number	Supply Source Sent to Basin Name	Supply Source Sent to County Number	Supply Source Sent to County Name	**Specific Source Indentifier**	**Specific Source Name**	**Available Supply to Provider for the Year 2000 (Ac-Ft)**	**Available Supply to Provider for the Year 2010 (Ac-Ft)**	**Available Supply to Provider for the Year 2020 (Ac-Ft)**	**Available Supply to Provider for the Year 2030 (Ac-Ft)**	**Available Supply to Provider for the Year 2040 (Ac-Ft)**	**Available Supply to Provider for the Year 2050 (Ac-Ft)**	Notes
Tarrant Regional Water District	190	00		C		8	Trinity	8	Trinity	249	Wise	08010P	Bridgeport Local Supply	6,696	6,698	7,523	7,688	7,597	7,436	TRWD Bridgeport Local Supply allocated to Wise County customers.
Tarrant Regional Water District													**Bridgeport Local Supply Total**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	
TRWD (with TRA & Fort Worth)														**375,825**	**373,850**	**373,177**	**372,447**	**371,446**	**370,487**	
Fort Worth	***298900***	***03***	***190***	***C***		***8***	***Trinity***	***8***	***Trinity***	***220***	***Tarrant***	***08060***	***Lake Benbrook***	***646***	***432***	***347***	***282***	***226***	***178***	***Available from TRWD.***
Fort Worth	***298900***	***03***	***190***	***C***		***8***	***Trinity***	***8***	***Trinity***	***220***	***Tarrant***	***08010P***	***Bridgeport Local***	***7,645***	***7,484***	***6,558***	***6,406***	***6,697***	***7,186***	***Available from TRWD.***
Fort Worth	*298900*	*03*	*190*	*C*		*8*	*Trinity*	*8*	*Trinity*	*126*	*Johnson*	*086E0*	*Cedar Creek/Richland-Chambers System*	*2,287*	*2,639*	*2,671*	*3,113*	*3,473*	*3,874*	*Availability based on TRWD supply. Included in TRWD above.*
Fort Worth	*298900*	*03*	*190*	*C*		*8*	*Trinity*	*8*	*Trinity*	*220*	*Tarrant*	*086E0*	*Cedar Creek/Richland-Chambers System*	*114,239*	*105,485*	*79,077*	*78,498*	*80,252*	*80,615*	*Availability based on TRWD supply. Included in TRWD above.*
Fort Worth													***Cedar Creek/Richland-Chambers System Subtotal***	***116,526***	***108,124***	***81,748***	***81,611***	***83,725***	***84,489***	***Availability based on TRWD supply. Included in TRWD above.***
Fort Worth	*298900*	*03*	*190*	*C*		*8*	*Trinity*	*8*	*Trinity*	*61*	*Denton*	*086C0*	*West Fork less Bridgeport Local*	*2,499*	*3,851*	*0*	*0*	*0*	*0*	*Availability based on TRWD supply. Included in TRWD above.*
Fort Worth	*298900*	*03*	*190*	*C*		*8*	*Trinity*	*8*	*Trinity*	*220*	*Tarrant*	*086C0*	*West Fork less Bridgeport Local*	*70,194*	*65,636*	*63,804*	*60,793*	*58,053*	*57,633*	*Availability based on TRWD supply. Included in TRWD above.*
Fort Worth													***West Fork less Bridgeport Local Subtotal***	***72,693***	***69,487***	***63,804***	***60,793***	***58,053***	***57,633***	***Availability based on TRWD supply. Included in TRWD above.***
Fort Worth Total														**197,510**	**185,527**	**152,457**	**149,092**	**148,701**	**149,486**	**Availability based on TRWD supply. Included in TRWD above.**
Trinity River Authority	***171***	***02***		***C***		***8***	***Trinity***	***8***	***Trinity***	***220***	***Tarrant***	***086E0***	***Cedar Creek/Richland-Chambers System***	***38,425***	***40,669***	***47,807***	***45,750***	***43,934***	***41,317***	***Availability based on TRWD supply. Included in TRWD above.***

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Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Type of Water Supply Source**	**Recipient of Water from the Major Provider. User Number (TWDB Alpha Number)**	**Location of Supply Source (RWPG Letter)**	**Location of Groundwater Supply Source (County Number)**	**Location of Supply Source (Basin Number)**	Location of Supply Source (Basin NAME)	Supply Source Sent to Basin Number	Supply Source Sent to Basin Name	Supply Source Sent to County Number	Supply Source Sent to County Name	**Specific Source Indentifier**	**Specific Source Name**	**Available Supply to Provider for the Year 2000 (Ac-Ft)**	**Available Supply to Provider for the Year 2010 (Ac-Ft)**	**Available Supply to Provider for the Year 2020 (Ac-Ft)**	**Available Supply to Provider for the Year 2030 (Ac-Ft)**	**Available Supply to Provider for the Year 2040 (Ac-Ft)**	**Available Supply to Provider for the Year 2050 (Ac-Ft)**	Notes
Trinity River Authority	171	00		C		8	Trinity	8	Trinity	57	Dallas	08130	Joe Pool Lake	168	168	168	153	148	144	TRA Joe Pool water available to Dallas County customers.
Trinity River Authority	171	00		C		8	Trinity	8	Trinity	70	Ellis	08130	Joe Pool Lake	5,174	6,009	6,602	7,083	7,257	7,403	TRA Joe Pool water available to Ellis County customers.
Trinity River Authority													**Joe Pool Lake Subtotal**	**5,342**	**6,177**	**6,770**	**7,236**	**7,405**	**7,547**	**Cedar Hill, Duncanville & Grand Prairie do not have facilities to move their contracted water.**
Trinity River Authority	**171**	**00**		**C**		**8**	**Trinity**	**8**	**Trinity**	**70**	**Ellis**	**08210**	**Lake Bardwell**	**9,600**	**9,600**	**9,500**	**9,000**	**8,600**	**8,100**	**TRA Bardwell water available to Ellis County customers.**
Trinity River Authority	**171**	**00**		**H**		**8**	**Trinity**	**8**	**Trinity**	**81**	**Freestone**	**08400**	**Livingston (TXU-Fairfield)**	**16,000**	**16,000**	**16,000**	**16,000**	**16,000**	**16,000**	**Upstream diversion from Lake Livingston**
Trinity River Authority	171	00		C		8	Trinity	8	Trinity	175	Navarro	08230	Navarro Mills Reservoir	18,278	18,278	18,278	18,278	18,278	18,278	TRA Navarro Mills Reservoir water available to Navarro County customers.
Trinity River Authority	171	00		C		8	Trinity	8	Trinity	175	Navarro	08230	Navarro Mills Reservoir	1,122	1,122	1,122	1,122	1,122	852	Uncommitted water available to TRA.
Trinity River Authority													**Navarro Mills Subtotal**	**19,400**	**19,400**	**19,400**	**19,400**	**19,400**	**19,130**	
Trinity River Authority	**171**	**02**		**C**		**8**	**Trinity**	**8**	**Trinity**	**70**	**Ellis**	086E0	**TRA (Ellis Co. contract to use TRWD's Cedar Creek/Richland-Chambers water)**	**0**	**0**	**0**	**0**	**0**	**0**	**Facilities not yet built.**
Trinity River Authority/Ennis	**171**	**00**		**C**		**8**	**Trinity**	**8**	**Trinity**	**70**	**Ellis**	**35081**	**Trinity River Authority/Ennis Indirect Reuse**	**0**	**0**	**0**	**0**	**0**	**0**	**Facilities not yet built.**
Trinity River Authority/Waxahachie	**171**	**00**		**C**		**8**	**Trinity**	**8**	**Trinity**	**70**	**Ellis**	**35081**	**Trinity River Authority/Waxahachie Indirect Reuse**	**3,400**	**3,800**	**3,900**	**4,400**	**4,900**	**5,129**	**Reuse.**
Trinity River Authority/Las Colinas	**171**	**00**		**C**		**8**	**Trinity**	**8**	**Trinity**	**57**	**Dallas**	**35081**	**Trinity River Authority/Las Colinas Indirect Reuse**	**8,000**	**8,000**	**8,000**	**8,000**	**8,000**	**8,000**	**Dallas Co URD**
TRA Total														**100,167**	**103,646**	**111,377**	**109,786**	**108,239**	**105,223**	
North Texas Municipal Water District	160	02		C		8	Trinity	5	Sabine	43	Collin	080C0	Lake Lavon/Reuse	36	40	428	515	568	489	NTMWD System allocated to the Sabine Basin portion of Collin County

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Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Type of Water Supply Source**	**Recipient of Water from the Major Provider. User Number (TWDB Alpha Number)**	**Location of Supply Source (RWPG Letter)**	**Location of Groundwater Supply Source (County Number)**	**Location of Supply Source (Basin Number)**	Location of Supply Source (Basin NAME)	Supply Source Sent to Basin Number	Supply Source Sent to Basin Name	Supply Source Sent to County Number	Supply Source Sent to County Name	**Specific Source Indentifier**	**Specific Source Name**	**Available Supply to Provider for the Year 2000 (Ac-Ft)**	**Available Supply to Provider for the Year 2010 (Ac-Ft)**	**Available Supply to Provider for the Year 2020 (Ac-Ft)**	**Available Supply to Provider for the Year 2030 (Ac-Ft)**	**Available Supply to Provider for the Year 2040 (Ac-Ft)**	**Available Supply to Provider for the Year 2050 (Ac-Ft)**	Notes
North Texas Municipal Water District	160	02		C		8	Trinity	8	Trinity	43	Collin	080C0	Lake Lavon/Reuse	71,145	79,832	84,191	85,250	85,651	85,388	NTMWD System allocated to the Trinity Basin portion of Collin County
North Texas Municipal Water District	160	02		C		8	Trinity	8	Trinity	57	Dallas	080C0	Lake Lavon/Reuse	59,154	48,431	41,196	37,017	33,692	30,975	NTMWD System allocated to Dallas County
North Texas Municipal Water District	160	02		C		8	Trinity	8	Trinity	61	Denton	080C0	Lake Lavon/Reuse	118	215	197	201	189	184	NTMWD System allocated to Denton County
North Texas Municipal Water District	160	02		C		8	Trinity	5	Sabine	129	Kaufman	080C0	Lake Lavon/Reuse	27	33	40	44	43	41	NTMWD System allocated to the Sabine Basin portion of Kaufman County
North Texas Municipal Water District	160	02		C		8	Trinity	8	Trinity	129	Kaufman	080C0	Lake Lavon/Reuse	3,920	3,471	3,511	3,614	3,642	3,689	NTMWD System allocated to the Trinity Basin portion of Kaufman County
North Texas Municipal Water District	160	02		C		8	Trinity	5	Sabine	199	Rockwall	080C0	Lake Lavon/Reuse	668	651	711	1,299	1,350	1,467	NTMWD System allocated to the Sabine Basin portion of Rockwall County
North Texas Municipal Water District	160	02		C		8	Trinity	8	Trinity	199	Rockwall	080C0	Lake Lavon/Reuse	4,775	5,470	6,269	6,803	7,808	8,910	NTMWD System allocated to the Trinity Basin portion of Rockwall County
North Texas Municipal Water District													**Lake Lavon/Reuse Total**	**139,843**	**138,143**	**136,543**	**134,743**	**132,943**	**131,143**	
North Texas Municipal Water District	160	02		C		2	Red	5	Sabine	43	Collin	020C0	Lake Texoma (NTMWD)	20	22	243	295	331	288	NTMWD System allocated to the Sabine Basin portion of Collin County
North Texas Municipal Water District	160	02		C		2	Red	8	Trinity	43	Collin	020C0	Lake Texoma (NTMWD)	39,325	44,673	47,661	48,904	49,803	50,329	NTMWD System allocated to the Trinity Basin portion of Collin County
North Texas Municipal Water District	160	02		C		2	Red	8	Trinity	57	Dallas	020C0	Lake Texoma (NTMWD)	32,699	27,100	23,323	21,236	19,588	18,259	NTMWD System allocated to Dallas County

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Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Type of Water Supply Source**	**Recipient of Water from the Major Provider. User Number (TWDB Alpha Number)**	**Location of Supply Source (RWPG Letter)**	**Location of Groundwater Supply Source (County Number)**	**Location of Supply Source (Basin Number)**	Location of Supply Source (Basin NAME)	Supply Source Sent to Basin Number	Supply Source Sent to Basin Name	Supply Source Sent to County Number	Supply Source Sent to County Name	**Specific Source Indentifier**	**Specific Source Name**	**Available Supply to Provider for the Year 2000 (Ac-Ft)**	**Available Supply to Provider for the Year 2010 (Ac-Ft)**	**Available Supply to Provider for the Year 2020 (Ac-Ft)**	**Available Supply to Provider for the Year 2030 (Ac-Ft)**	**Available Supply to Provider for the Year 2040 (Ac-Ft)**	**Available Supply to Provider for the Year 2050 (Ac-Ft)**	Notes
North Texas Municipal Water District	160	02		C		2	Red	8	Trinity	61	Denton	020C0	Lake Texoma (NTMWD)	65	120	111	116	110	108	NTMWD System allocated to Denton County
North Texas Municipal Water District	160	02		C		2	Red	5	Sabine	129	Kaufman	020C0	Lake Texoma (NTMWD)	15	19	23	25	25	24	NTMWD System allocated to the Sabine Basin portion of Kaufman County
North Texas Municipal Water District	160	02		C		2	Red	8	Trinity	129	Kaufman	020C0	Lake Texoma (NTMWD)	2,167	1,941	1,988	2,075	2,118	2,175	NTMWD System allocated to the Trinity Basin portion of Kaufman County
North Texas Municipal Water District	160	02		C		2	Red	5	Sabine	199	Rockwall	020C0	Lake Texoma (NTMWD)	370	365	403	745	785	864	NTMWD System allocated to the Sabine Basin portion of Rockwall County
North Texas Municipal Water District	160	02		C		2	Red	8	Trinity	199	Rockwall	020C0	Lake Texoma (NTMWD)	2,639	3,060	3,548	3,904	4,540	5,253	NTMWD System allocated to the Trinity Basin portion of Rockwall County
North Texas Municipal Water District													**Lake Texoma (NTMWD) Total**	**77,300**	**77,300**	**77,300**	**77,300**	**77,300**	**77,300**	
North Texas Municipal Water District	160	02		D		3	Sulphur	5	Sabine	43	Collin	030C0	Chapman (NTMWD)	14	15	166	200	222	192	NTMWD System allocated to the Sabine Basin portion of Collin County
North Texas Municipal Water District	160	02		D		3	Sulphur	8	Trinity	43	Collin	030C0	Chapman (NTMWD)	26,979	30,740	32,557	33,153	33,501	33,596	NTMWD System allocated to the Trinity Basin portion of Collin County
North Texas Municipal Water District	160	02		D		3	Sulphur	8	Trinity	57	Dallas	030C0	Chapman (NTMWD)	22,921	18,655	15,929	14,395	13,179	12,187	NTMWD System allocated to Dallas County
North Texas Municipal Water District	160	02		D		3	Sulphur	8	Trinity	61	Denton	030C0	Chapman (NTMWD)	46	83	76	78	74	73	NTMWD System allocated to Denton County
North Texas Municipal Water District	160	02		D		3	Sulphur	5	Sabine	129	Kaufman	030C0	Chapman (NTMWD)	11	13	15	17	17	16	NTMWD System allocated to the Sabine Basin portion of Kaufman County

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North Texas Municipal Water District	160	02		D		3	Sulphur	8	Trinity	129	Kaufman	030C0	Chapman (NTMWD)	1,519	1,337	1,357	1,406	1,425	1,453	NTMWD System allocated to the Trinity Basin portion of Kaufman County
North Texas Municipal Water District	160	02		D		3	Sulphur	5	Sabine	199	Rockwall	030C0	Chapman (NTMWD)	259	251	275	505	528	577	NTMWD System allocated to the Sabine Basin portion of Rockwall County
North Texas Municipal Water District	160	02		D		3	Sulphur	8	Trinity	199	Rockwall	030C0	Chapman (NTMWD)	1,851	2,106	2,425	2,646	3,054	3,506	NTMWD System allocated to the Trinity Basin portion of Rockwall County
North Texas Municipal Water District													**Chapman (NTMWD) Total**	**53,600**	**53,200**	**52,800**	**52,400**	**52,000**	**51,600**	
NTMWD Total														**270,743**	**268,643**	**266,643**	**264,443**	**262,243**	**260,043**	
Dallas	206800	02		C		8	Trinity	8	Trinity	43	Collin	086D0	Elm Fork/Lake Grapevine System	7,352	7,686	9,368	12,058	12,458	13,131	DWU Elm Fork/Lake Grapevine System allocated to Collin County.
Dallas	206800	02		C		8	Trinity	8	Trinity	57	Dallas	086D0	Elm Fork/Lake Grapevine System	162,390	139,018	149,179	190,971	188,944	186,538	DWU Elm Fork/Lake Grapevine System allocated to Dallas County.
Dallas	206800	02		C		8	Trinity	8	Trinity	61	Denton	086D0	Elm Fork/Lake Grapevine System	47,649	67,965	48,998	3,136	3,268	3,621	DWU Elm Fork/Lake Grapevine System allocated to Denton County.
Dallas	206800	02		C		8	Trinity	8	Trinity	70	Ellis	086D0	Elm Fork/Lake Grapevine System	4	11	0	0	0	0	DWU Elm Fork/Lake Grapevine System allocated to Ellis County.
Dallas	206800	02		C		8	Trinity	8	Trinity	220	Tarrant	086D0	Elm Fork/Lake Grapevine System	3,025	4,360	0	0	0	0	DWU Elm Fork/Lake Grapevine System allocated to Tarrant County portion of Grand Prairie.
Dallas													**Elm Fork/Lake Grapevine System Subtotal**	**220,420**	**219,040**	**207,545**	**206,165**	**204,670**	**203,290**	**Includes system operation.**

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Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Type of Water Supply Source**	**Recipient of Water from the Major Provider. User Number (TWDB Alpha Number)**	**Location of Supply Source (RWPG Letter)**	**Location of Groundwater Supply Source (County Number)**	**Location of Supply Source (Basin Number)**	Location of Supply Source (Basin NAME)	Supply Source Sent to Basin Number	Supply Source Sent to Basin Name	Supply Source Sent to County Number	Supply Source Sent to County Name	**Specific Source Indentifier**	**Specific Source Name**	**Available Supply to Provider for the Year 2000 (Ac-Ft)**	**Available Supply to Provider for the Year 2010 (Ac-Ft)**	**Available Supply to Provider for the Year 2020 (Ac-Ft)**	**Available Supply to Provider for the Year 2030 (Ac-Ft)**	**Available Supply to Provider for the Year 2040 (Ac-Ft)**	**Available Supply to Provider for the Year 2050 (Ac-Ft)**	Notes
Dallas	206800	02		C		8	Trinity	8	Trinity	57	Dallas	08170	Lake Ray Hubbard	67,113	66,626	66,086	65,663	65,106	64,541	DWU Ray Hubbard/Tawakoni System allocated to Dallas County.
Dallas	206800	02		C		8	Trinity	8	Trinity	61	Denton	08170	Lake Ray Hubbard	1,011	1,011	1,235	1,368	1,465	1,568	DWU Ray Hubbard/Tawakoni System allocated to Denton County.
Dallas	206800	02		C		8	Trinity	8	Trinity	70	Ellis	08170	Lake Ray Hubbard	237	254	100	0	0	0	DWU Ray Hubbard/Tawakoni System allocated to Ellis County.
Dallas	206800	02		C		8	Trinity	8	Trinity	129	Kaufman	08170	Lake Ray Hubbard	61	71	80	121	120	121	DWU Ray Hubbard/Tawakoni System allocated to Kaufman County.
Dallas	206800	02		C		8	Trinity	8	Trinity	199	Rockwall	08170	Lake Ray Hubbard	3	3	4	8	9	10	DWU Ray Hubbard/Tawakoni System allocated to Rockwall County.
Dallas													**Lake Ray Hubbard Total**	**68,425**	**67,965**	**67,505**	**67,160**	**66,700**	**66,240**	**Includes system operation.**
Dallas	206800	02		D		8	Trinity	8	Trinity	57	Dallas	05010	Tawakoni (Dallas)	178,312	177,723	176,927	176,186	175,405	174,503	DWU Ray Hubbard/Tawakoni System allocated to Dallas County.
Dallas	206800	02		D		8	Trinity	8	Trinity	61	Denton	05010	Tawakoni (Dallas)	2,686	2,698	3,308	3,670	3,948	4,240	DWU Ray Hubbard/Tawakoni System allocated to Denton County.
Dallas	206800	02		D		8	Trinity	8	Trinity	70	Ellis	05010	Tawakoni (Dallas)	631	678	291	0	0	0	DWU Ray Hubbard/Tawakoni System allocated to Ellis County.
Dallas	206800	02		D		8	Trinity	8	Trinity	129	Kaufman	05010	Tawakoni (Dallas)	163	192	259	324	323	329	DWU Ray Hubbard/Tawakoni System allocated to Kaufman County.
Dallas	206800	02		D		8	Trinity	8	Trinity	199	Rockwall	05010	Tawakoni (Dallas)	8	9	15	20	24	28	DWU Ray Hubbard/Tawakoni System allocated to Rockwall County.
Dallas													**Tawakoni (Dallas) Total**	**181,800**	**181,300**	**180,800**	**180,200**	**179,700**	**179,100**	
Dallas Total														**470,645**	**468,305**	**455,850**	**453,525**	**451,070**	**448,630**	

Notes:
Titles in **BOLD** are required in TWDB Table 6

APPENDIX L

TWDB TABLE 7
COMPARISON OF DEMANDS WITH CURRENT WATER SUPPLIES BY CITY AND CATEGORY

APPENDIX L
TWDB TABLE 7
COMPARISON OF DEMANDS WITH CURRENT WATER SUPPLIES BY CITY AND CATEGORY

Introduction

TWDB Table 7 compares the currently connected supplies to the projected water demands. The resulting water surplus in this table show entities that might have additional water to sell to other water user groups. The table also points out entities who are expected to have water shortages in the future and possible timing as to when these shortages might occur. The following information is required by the TWDB to be included in TWDB Table 7 [56]:

A. Water User Group Name
B. Water User Group Identification Number
C. Regional Planning Group Number Letter
D. TWDB Sequence Number for Water User Group
E. TWDB City Number
F. County Number (see key before TWDB Table 7)
G. Basin Number (see key before TWDB Table 7)
H-M. Value for current supplies available minus demands for years 2000, 2010, 2020, 2030, 2040, and 2050 (Needs shown as negative numbers)

Summary of Surpluses and Shortages by County

Collin County

By 2050, the total projected water shortage in Collin County is 210,431 ac-ft/yr, representing approximately 20 percent of the regional shortage. Municipal and county-other uses account for 96 percent of the shortage in Collin County. By 2050, McKinney (46,021 ac-ft/yr), Frisco (45,157 ac-ft/yr), and Plano (42,371 ac-ft/yr) have the largest projected shortages for drought of record conditions. Each of these cities is supplied by the North Texas Municipal Water District (NTMWD). NTMWD is a designated major

water provider in Region C, and shortages and surpluses for NTMWD are reviewed in the section entitled "Comparison of Supply and Demand by Major Water Provider."

Among industrial uses, steam electric power (7,102 ac-ft/yr by 2050) and manufacturing (2,069 ac-ft/yr by 2050) each have projected shortages during the planning period. Both the Steam Electric Power and the Manufacturing uses get part of their supplies from NTMWD. Anna, mining, irrigation, and livestock uses have surpluses in 2050.

Cooke County

In 2000, each municipal use in Cooke County shows a shortage for drought conditions. These shortages grow more severe with each decade. In addition, manufacturing and livestock uses show shortages during the entire planning period because of limitations on groundwater supply.

Dallas County

By 2050, the total projected water shortage in Dallas County is 415,879 ac-ft/yr, representing approximately 37 percent of the regional shortage. Municipal and county-other uses account for 96 percent of the shortage in Dallas County. The City of Dallas has projected shortages for drought of record conditions of 38,044 ac-ft/yr in 2000 and 67,407 ac-ft/yr in 2010 but has projected surpluses from 2020 through 2040 (note that these are totals across several counties). The reason for the increase in the City of Dallas supply after 2010 is expiration of wholesale contracts. Renewal of these contracts is a water management strategy to be considered in Task 5.

By connecting Dallas' existing unconnected supplies, utilizing Lake Chapman, and utilizing existing return flows into its supply reservoirs, Dallas will be able to address anticipated shortages discussed above for 2000-2010. In fact, Dallas' existing water supplies (connected plus unconnected) are calculated to be adequate for all current Dallas customers through year 2030.

Dallas county-other shows a projected shortage growing from 268 ac-ft/yr in 2010 to 119,173 ac-ft/yr in 2050. Irving has a projected shortage of 5,255 ac-ft/yr in 2000 and 70,026 ac-ft/yr in 2050. Among industrial uses, manufacturing (7,175 ac-ft/yr by 2050), steam electric power (17,978 ac-ft/yr by 2050), and mining (4,981 ac-ft/yr by 2050) each

have significant shortages throughout the planning period. The manufacturing and steam electric power uses get portions of their supplies from NTMWD and from DWU. Shortages and surpluses for NTMWD and for DWU are reviewed in the section entitled "Comparison of Supply and Demand by Major Water Provider."

Highland Park, University Park, livestock, and irrigation uses each show surpluses throughout the planning period.

Denton County

Of the Region C counties, Denton County has the second largest shortage for 2050, behind Dallas County. By 2050, Lewisville (42,254 ac-ft/yr), county-other (37,323 ac-ft/yr), Denton (36,670 ac-ft/yr), and Flower Mound (31,448 ac-ft/yr) show the largest shortages. Each of these cities receives at least a portion of their supply from DWU.

In addition, there is a projected shortage for steam electric power that grows from 4,000 ac-ft/yr in 2010 to 5,500 ac-ft/yr by 2050. The irrigation and livestock uses are the only groups to show a surplus in each decade of the planning period.

Ellis County

By 2050, the two largest shortages in Ellis County are for steam electric power (18,000 ac-ft/yr) and Ovilla (1,010 ac-ft/yr). The irrigation and livestock uses each have projected surpluses throughout the planning period. Ennis, Ferris, Midlothian, Red Oak, Waxahachie, county-other, and manufacturing receive at least a portion of their supplies from the Trinity River Authority (TRA). Shortages and surpluses for TRA are reviewed in the section entitled "Comparison of Supply and Demand by Major Water Provider."

Fannin County

County-other in the Red River Basin is the only user group in Fannin County to show a shortage for any decade during the planning period. County-other shows relatively small shortages in 2030 and 2040. Fannin County as a whole is expected to have a surplus of more than 19,000 ac-ft/yr in each decade. The irrigation use shows a surplus of more than 14,000 ac-ft/yr in each decade.

Freestone County

Wortham has a projected shortage of 267 ac-ft/yr in 2000, growing to 331 ac-ft/yr in 2050. Fairfield has a projected shortage of 50 ac-ft/yr in 2030, rising to 89 ac-ft/yr by

2050. The steam electric power use has a projected shortage ranging from 8,796 ac-ft/yr in 2010 to 14,988 in 2040 and 2050. Every other water user group in the county has a projected surplus (or at least no shortage) for each decade in the planning period.

Grayson County

Denison has a projected surplus of more than 21,000 ac-ft/yr for each decade in the planning period. The surplus for Sherman ranges from 5,925 ac-ft/yr in 2000 to 4,574 ac-ft/yr in 2050. By 2050, the largest projected shortages for drought of record conditions are manufacturing (3,795 ac-ft/yr) and Van Alstyne (1,132 ac-ft/yr). The county as a whole shows a surplus of more than 18,000 ac-ft/yr throughout the planning period.

Henderson County

Malakoff has a projected shortage ranging from 9 ac-ft/yr in 2000 to 58 ac-ft/yr in 2050. No other water user groups in the county have projected shortages. Steam electric power (9,501 ac-ft/yr), Athens (more than 3,500 ac-ft/yr), irrigation (2,373 ac-ft/yr), and Trinidad (more than 800 ac-ft/yr) have relatively large surpluses throughout the planning period. The county as a whole shows a surplus of more than 17,000 ac-ft/yr throughout the planning period. Gun Barrel City, Mabank, Payne Springs, Seven Points, Tool, county-other, and steam electric power (TXU) are customers of the Tarrant Regional Water District (TRWD). Shortages and surpluses for TRWD are reviewed in the section entitled “Comparison of Supply and Demand by Major Water Provider.”

Jack County

No water user group in Jack County is expected to have a water shortage during drought of record conditions at any time during the planning period. Jacksboro has the largest municipal surplus, ranging from 801 in 2000 to 586 in 2050. The livestock use has the largest overall surplus, at 1,015 ac-ft/yr in each decade (including both the Trinity and Brazos river basins).

Kaufman County

Forney (3,894 ac-ft/yr by 2050) and county-other (3,034 ac-ft/yr by 2050) have the largest projected municipal shortages for drought of record conditions during the planning period. Forney is supplied by NTMWD.

Steam electric power has a relatively large projected shortage, ranging from 7,800 ac-ft/yr in 2000 to 15,000 ac-ft/yr in 2050. Terrell, Kemp, and livestock have projected surpluses throughout the planning period. Terrell has a relatively large surplus, decreasing from 8,321 ac-ft/yr in 2000 to 6,315 ac-ft/yr in 2050.

Navarro County

On the whole, Navarro County shows a surplus of more than 11,000 ac-ft/yr in each decade of the planning period. By 2050, Corsicana (6,043 ac-ft/yr), irrigation (2,841 ac-ft/yr), and county-other (1,086 ac-ft/yr) have the largest surpluses. Corsicana is a customer of TRA.

Mining is the only user group in Navarro County to have a projected shortage in any decade; this shortage ranges from 9 ac-ft/yr in 2020 to 43 ac-ft/yr in 2050.

Parker County

By 2050, Weatherford (14,497 ac-ft/yr) and Steam Electric Power (11,850 ac-ft/yr) are expected to have the largest water shortages under drought of record conditions. Three other user groups are expected to have shortages of more than 1,000 ac-ft/yr by 2050 (mining, Willow Park, and Hudson Oaks). The irrigation (more than 1,800 ac-ft/yr) and livestock (more than 825 ac-ft/yr) uses show projected surpluses throughout the planning period.

Rockwall County

The City of Rockwall is projected to have the largest shortage, ranging from 1,269 ac-ft/yr in 2010 to 12,975 in 2050. By 2050, Rowlett (4,048 ac-ft/yr), Royse City (3,062 ac-ft/yr), and Heath (1,594 ac-ft/yr) also have large shortages. Each of the above cities is a customer of NTMWD.

The steam electric power use shows a shortage ranging from 5,600 ac-ft/yr in 2010 to 6,000 ac-ft/yr in 2050.

Tarrant County

By 2050, Tarrant County has the fourth largest shortage of the Region C counties, behind Dallas, Collin, and Denton Counties. The largest 2050 shortage is projected for Fort Worth (30,333 ac-ft/yr), with other large shortages for county-other (19,359 ac-

ft/yr), Arlington (16,236 ac-ft/yr), manufacturing (16,783 ac-ft/yr), and Southlake (15,383 ac-ft/yr). Each of the above water users is a customer of TRWD.

The only projected surpluses in 2050 are Benbrook (412 ac-ft/yr) and the irrigation (4,290 ac-ft/yr) and mining (83 ac-ft/yr) uses.

Wise County

Wise County as a whole shows a shortage by 2010. The largest shortages by 2050 are steam electric power (11,200 ac-ft/yr) and county-other (4,457 ac-ft/yr). The manufacturing, mining, irrigation, and livestock uses show surpluses in each decade of the planning period. The mining surplus is more than 6,000 ac-ft/yr in each decade.

Key to Codes in TWDB Table 7

County Number Code

43	Collin
49	Cooke
57	Dallas
61	Denton
70	Ellis
74	Fannin
81	Freestone
91	Grayson
107	Henderson
119	Jack
126	Johnson
129	Kaufman
175	Navarro
184	Parker
199	Rockwall
220	Tarrant
249	Wise

Basin Numbers

2	Red River Basin
3	Sulphur River Basin
5	Sabine River Basin
6	Neches River Basin
8	Trinity River Basin
12	Brazos River Basin

TWDB Table 7
Comparison of Water Demands with Current Supplies by City and Category

Collin County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Allen	30012000	C	12	8	43	8	1,522	(3,421)	(9,355)	(13,487)	(16,183)	(18,020)
Anna	30029000	C	29	813	43	8	97	87	81	74	73	72
Blue Ridge	30094000	C	94	829	43	8	(1)	(9)	(17)	(22)	(23)	(24)
Celina	30154000	C	154	103	43	8	(108)	(757)	(2,263)	(5,384)	(7,237)	(8,297)
Dallas	30227000	C	227	151	43	8	(1,000)	(1,708)	(1,207)	705	188	(127)
Fairview	30291000	C	291	772	43	8	115	(175)	(405)	(599)	(775)	(973)
Farmersville	30294000	C	294	199	43	8	84	(97)	(263)	(399)	(526)	(643)
Frisco	30319000	C	319	221	43	8	1,446	(2,995)	(10,121)	(20,088)	(32,793)	(45,157)
Garland	30334000	C	334	230	43	8	1	(1)	(1)	(2)	(2)	(4)
Lucas	30547000	C	547	718	43	8	105	(139)	(313)	(502)	(669)	(829)
Mckinney	30577000	C	577	379	43	8	2,264	(4,853)	(14,676)	(24,944)	(35,858)	(46,021)
Melissa	30584000	C	584	914	43	8	7	(16)	(38)	(58)	(68)	(76)
Murphy	30619000	C	619	724	43	8	110	(277)	(833)	(1,270)	(1,664)	(2,014)
New Hope	30631000	C	631	923	43	8	14	(13)	(28)	(36)	(44)	(50)
Parker	30679000	C	679	733	43	8	113	(291)	(1,092)	(2,356)	(4,028)	(5,746)
Plano	30704000	C	704	472	43	8	9,981	(12,349)	(25,439)	(32,828)	(38,558)	(42,371)
Princeton	30724000	C	724	487	43	8	63	(98)	(287)	(428)	(545)	(625)
Prosper	30726000	C	726	799	43	8	(188)	(1,149)	(2,179)	(3,216)	(4,260)	(5,349)
Richardson	30747000	C	747	498	43	8	536	(571)	(1,296)	(1,841)	(2,330)	(2,761)
Royse City	30779000	C	779	522	43	5	9	(14)	(38)	(60)	(81)	(103)
Sachse	30784000	C	784	742	43	8	8	(14)	(35)	(50)	(69)	(87)
Wylie	30991000	C	991	669	43	8	335	(464)	(1,377)	(2,630)	(4,252)	(5,839)
County -Other	30996043	C	996	757	43	5	202	153	(338)	(640)	(966)	(997)
County -Other	30996043	C	996	757	43	8	2,060	1,074	(6,387)	(11,101)	(16,125)	(16,459)
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							17,775	(28,097)	(77,907)	(121,162)	(166,795)	(202,500)
Manufacturing	31001043	C	1001	1001	43	5	0	0	0	0	0	0
Manufacturing	31001043	C	1001	1001	43	8	992	(362)	(854)	(1,238)	(1,668)	(2,069)
Steam Electric Power	31002043	C	1002	1002	43	5	0	0	0	0	0	0
Steam Electric Power	31002043	C	1002	1002	43	8	3,023	(2,564)	(3,219)	(3,610)	(6,910)	(7,102)
Mining	31003043	C	1003	1003	43	5	0	0	0	0	0	0
Mining	31003043	C	1003	1003	43	8	167	166	174	178	186	177
Irrigation	31004043	C	1004	1004	43	5	0	0	0	0	0	0
Irrigation	31004043	C	1004	1004	43	8	1,017	1,017	1,017	1,017	1,017	1,017
Livestock	31005043	C	1005	1005	43	5	2	2	2	2	2	2

Livestock	31005043	C	1005	1005	43	8	44	44	44	44	44	44
SUBTOTAL OF NON-MUNICIPAL USES:							5,245	(1,697)	(2,836)	(3,607)	(7,329)	(7,931)
COLLIN COUNTY TOTAL							23,020	(29,794)	(80,743)	(124,769)	(174,124)	(210,431)

Cooke County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Gainesville	30327000	C	327	225	49	8	(1,502)	(1,649)	(1,828)	(2,229)	(2,472)	(2,715)
Lindsay	30525000	C	525	899	49	8	(28)	(35)	(48)	(74)	(82)	(88)
Muenster	30615000	C	615	418	49	8	(90)	(98)	(107)	(151)	(159)	(172)
Valley View	30923000	C	923	981	49	8	(34)	(43)	(56)	(78)	(94)	(113)
County -Other	30996049	C	996	757	49	2	(98)	(100)	(88)	(101)	(96)	(91)
County -Other	30996049	C	996	757	49	8	(631)	(654)	(562)	(668)	(633)	(599)
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							(2,383)	(2,579)	(2,689)	(3,301)	(3,536)	(3,778)
Manufacturing	31001049	C	1001	1001	49	2	0	0	0	0	0	0
Manufacturing	31001049	C	1001	1001	49	8	(147)	(201)	(253)	(339)	(402)	(464)
Steam Electric Power	31002049	C	1002	1002	49	2	0	0	0	0	0	0
Steam Electric Power	31002049	C	1002	1002	49	8	0	0	0	0	0	0
Mining	31003049	C	1003	1003	49	2	(89)	18	57	69	82	85
Mining	31003049	C	1003	1003	49	8	1	56	65	51	51	46
Irrigation	31004049	C	1004	1004	49	2	(39)	(33)	(27)	(44)	(39)	(33)
Irrigation	31004049	C	1004	1004	49	8	29	32	35	29	32	34
Livestock	31005049	C	1005	1005	49	2	(105)	(105)	(105)	(146)	(146)	(146)
Livestock	31005049	C	1005	1005	49	8	(275)	(275)	(275)	(353)	(353)	(353)
SUBTOTAL OF NON-MUNICIPAL USES:							(625)	(508)	(503)	(733)	(775)	(831)
COOKE COUNTY TOTAL							(3,008)	(3,087)	(3,192)	(4,034)	(4,311)	(4,609)

Dallas County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortag e) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Addison	30003000	C	3	673	57	8	(859)	(1,775)	(10,783)	(11,795)	(12,907)	(13,650)
Balch Springs	30049000	C	49	33	57	8	(327)	(697)	(3,580)	(3,597)	(3,459)	(3,459)
Carrollton	30147000	C	147	98	57	8	(1,492)	(2,457)	(14,317)	(14,304)	(13,777)	(12,896)
Cedar Hill	30151000	C	151	102	57	8	(701)	(1,856)	(11,195)	(14,060)	(17,409)	(17,706)
Cockrell Hill	30182000	C	182	121	57	8	(85)	(143)	(688)	(672)	(647)	(647)

Combine	30193000	C	193	766	57	8	(10)	(20)	(13)	8	2	(2)
Coppell	30201000	C	201	133	57	8	(982)	(10,872)	(11,147)	(11,191)	(11,229)	(11,513)
Dallas	30227000	C	227	151	57	8	(38,044)	(67,407)	(7,828)	22,135	5,355	(3,440)
De Soto	30234000	C	234	161	57	8	(1,047)	(2,372)	(13,391)	(15,047)	(16,477)	(18,039)
Duncanville	30256000	C	256	171	57	8	(953)	(1,815)	(9,111)	(9,361)	(9,361)	(9,361)
Farmers Branch	30293000	C	293	198	57	8	(1,314)	(2,117)	(12,952)	(13,432)	(14,547)	(15,803)
Garland	30334000	C	334	230	57	8	5,445	(5,430)	(11,522)	(15,157)	(17,935)	(19,708)
Glenn Heights	30344000	C	344	697	57	8	(83)	(170)	(114)	(1,101)	(1,237)	(1,386)
Grand Prairie	30353000	C	353	245	57	8	(1,644)	(2,630)	(15,293)	(14,791)	(14,578)	(14,229)
Grapevine	30360000	C	360	249	57	8	2	(3)	(5)	(6)	(9)	(10)
Highland Park	30402000	C	402	276	57	8	332	381	425	343	259	103
Hutchins	30429000	C	429	294	57	8	(90)	(199)	(1,153)	(1,428)	(1,746)	(2,129)
Irving	30437000	C	437	298	57	8	(5,255)	(46,405)	(47,945)	(60,359)	(65,202)	(70,026)
Lancaster	30509000	C	509	345	57	8	(527)	(990)	(5,094)	(5,156)	(4,976)	(4,797)
Lewisville	30519000	C	519	355	57	8	(22)	(46)	(348)	(415)	(471)	(534)
Mesquite	30592000	C	592	401	57	8	3,199	(3,747)	(9,162)	(13,641)	(17,954)	(19,371)
Ovilla	30663000	C	663	729	57	8	(10)	(19)	(97)	(108)	(116)	(128)
Richardson	30747000	C	747	498	57	8	3,477	(3,826)	(8,419)	(11,320)	(13,615)	(15,312)
Rowlett	30777000	C	777	521	57	8	1,099	(1,334)	(3,326)	(4,965)	(6,241)	(7,466)
Sachse	30784000	C	784	742	57	8	250	(483)	(1,153)	(1,726)	(2,243)	(2,633)
Seagoville	30812000	C	812	547	57	8	(228)	(616)	(3,433)	(3,820)	(4,106)	(4,280)
Sunnyvale	30871000	C	871	749	57	8	124	(252)	(680)	(930)	(1,112)	(1,233)
University Park	30920000	C	920	615	57	8	332	381	424	342	258	103
Wilmer	30975000	C	975	657	57	8	(136)	(223)	(269)	(272)	(255)	(255)
County -Other	30996057	C	996	757	57	8	7,179	(268)	(23,387)	(50,227)	(90,245)	(119,173)
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							(32,370)	(157,410)	(225,556)	(256,053)	(335,980)	(388,980)
Manufacturing	31001057	C	1001	1001	57	8	(4,542)	(9,255)	(7,257)	(2,866)	(5,205)	(7,175)
Steam Electric Power	31002057	C	1002	1002	57	8	109	(2,823)	(9,511)	(8,427)	(8,454)	(17,978)
Mining	31003057	C	1003	1003	57	8	(1,350)	(1,859)	(2,607)	(3,361)	(4,121)	(4,981)
Irrigation	31004057	C	1004	1004	57	8	3,820	3,152	3,152	3,152	3,152	3,152
Livestock	31005057	C	1005	1005	57	8	83	83	83	83	83	83
SUBTOTAL OF NON-MUNICIPAL USES:							(1,880)	(10,702)	(16,140)	(11,419)	(14,545)	(26,899)
DALLAS COUNTY TOTAL							(34,250)	(168,112)	(241,696)	(267,472)	(350,525)	(415,879)

Denton County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Argyle	30036000	C	36	677	61	8	0	(301)	(366)	(3,833)	(4,060)	(3,985)
Aubrey	30043000	C	43	758	61	8	0	(34)	(39)	(531)	(679)	(1,229)
Bartonville	30058000	C	58	820	61	8	0	(217)	(195)	(2,170)	(2,562)	(2,681)

Carrollton	30147000	C	147	98	61	8	(1,298)	(2,270)	(13,682)	(13,976)	(13,775)	(13,199)
Copper Canyon	30202000	C	202	849	61	8	0	(135)	(139)	(1,209)	(1,433)	(1,501)
Corinth	30204000	C	204	691	61	8	0	(780)	(707)	(6,715)	(6,407)	(6,429)
Crossroads	30996061	C	996	757	61	8	0	(38)	(75)	(1,138)	(1,661)	(2,964)
Dallas	30227000	C	227	151	61	8	(674)	(1,254)	(161)	495	130	(91)
Denton	30240000	C	240	159	61	8	5,661	1,684	(8,074)	(16,809)	(25,109)	(35,269)
Double Oak	30251000	C	251	768	61	8	0	(121)	(90)	(913)	(924)	(933)
Flower Mound	30301000	C	301	204	61	8	(612)	(3,183)	(7,713)	(27,113)	(29,968)	(31,448)
Frisco	30319000	C	319	221	61	8	27	(68)	(163)	(258)	(328)	(387)
Hebron	30390000	C	390	776	61	8	(200)	(348)	(613)	(669)	(668)	(780)
Hickory Creek	30399000	C	399	704	61	8	0	(113)	(125)	(1,243)	(1,388)	(1,539)
Highland Village	30403000	C	403	706	61	8	0	(622)	(367)	(3,370)	(3,253)	(3,353)
Justin	30456000	C	456	784	61	8	(180)	(322)	(745)	(1,265)	(2,084)	(2,497)
Krugerville	30481000	C	481	892	61	8	(77)	(139)	(166)	(258)	(318)	(362)
Krum	30482000	C	482	785	61	8	(264)	(433)	(610)	(867)	(1,024)	(1,167)
Lake Dallas	30498000	C	498	337	61	8	0	(214)	(169)	(1,543)	(1,659)	(1,656)
Lewisville	30519000	C	519	355	61	8	(2,330)	(6,263)	(35,720)	(40,071)	(41,160)	(42,254)
Lincoln Park	30996061	C	996	757	61	8	15	(6)	(9)	(184)	(300)	(384)
Little Elm	30527000	C	527	790	61	8	(234)	(491)	(937)	(1,387)	(1,714)	(1,835)
Northlake	30996061	C	996	757	61	8	5	(57)	(2,201)	(3,882)	(5,674)	(7,354)
Oak Point	30648000	C	648	930	61	8	0	(68)	(114)	(1,453)	(1,654)	(1,830)
Pilot Point	30695000	C	695	465	61	8	(279)	(528)	(753)	(1,128)	(1,239)	(1,465)
Plano	30704000	C	704	472	61	8	3	(3)	(9)	(16)	(20)	(27)
Ponder	30996061	C	996	757	61	8	14	(162)	(544)	(978)	(1,204)	(1,337)
Roanoke	30758000	C	758	800	61	8	12	(17)	(462)	(630)	(751)	(893)
Sanger	30801000	C	801	535	61	8	604	(451)	(2,344)	(2,992)	(3,371)	(3,807)
Shady Shores	30820000	C	820	803	61	8	0	(70)	(64)	(650)	(732)	(717)
Southlake	30846000	C	846	570	61	8	11	(314)	(372)	(473)	(588)	(745)
The Colony	30891000	C	891	752	61	8	(336)	(1,023)	(8,806)	(9,912)	(10,694)	(10,441)
Trophy Club	30911000	C	911	806	61	8	89	(130)	(3,379)	(4,442)	(5,289)	(6,288)
County -Other	30996061	C	996	757	61	8	2,267	1,529	699	(27,772)	(32,878)	(37,323)
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							2,224	(16,962)	(89,214)	(179,355)	(204,438)	(228,170)
Manufacturing	31001061	C	1001	1001	61	8	6	(160)	(151)	(1,120)	(1,366)	(1,647)
Steam Electric Power	31002061	C	1002	1002	61	8	500	(4,000)	(4,000)	(4,000)	(5,500)	(5,500)
Mining	31003061	C	1003	1003	61	8	0	0	0	0	0	(16)
Irrigation	31004061	C	1004	1004	61	8	235	235	235	235	235	235
Livestock	31005061	C	1005	1005	61	8	143	143	143	115	115	115
SUBTOTAL OF NON-MUNICIPAL USES:							884	(3,782)	(3,773)	(4,770)	(6,516)	(6,813)
DENTON COUNTY TOTAL							3,108	(20,744)	(92,987)	(184,125)	(210,954)	(234,983)

Ellis County

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]	[L]	[M]

Water User Group	Water User Group Identifier	Regional Water Planning Group	Sequence Number	City Number	County Number	Basin Number	2000 Surplus / (Shortage) (ac-ft/yr)	2010 Surplus / (Shortage) (ac-ft/yr)	2020 Surplus / (Shortage) (ac-ft/yr)	2030 Surplus / (Shortage) (ac-ft/yr)	2040 Surplus / (Shortage) (ac-ft/yr)	2050 Surplus / (Shortage) (ac-ft/yr)
Cedar Hill	30151000	C	151	102	70	8	(1)	(4)	(30)	(39)	(42)	(47)
Ennis	30284000	C	284	192	70	8	2,792	2,170	1,461	11	(395)	(876)
Ferris	30296000	C	296	201	70	8	14	8	(10)	(34)	(45)	(54)
Glenn Heights	30344000	C	344	697	70	8	(20)	(40)	(26)	(258)	(268)	(278)
Grand Prairie	30353000	C	353	245	70	8	(1)	(3)	(32)	(31)	(30)	(29)
Italy	30438000	C	438	299	70	8	(37)	(157)	(285)	(435)	(454)	(454)
Mansfield	30559000	C	559	384	70	8	5	(8)	(9)	(29)	(56)	(88)
Maypearl	30573000	C	573	911	70	8	(69)	(73)	(81)	(81)	(81)	(93)
Midlothian	30596000	C	596	405	70	8	252	107	(109)	(320)	(445)	(535)
Milford	30598000	C	598	916	70	8	(51)	(65)	(75)	(88)	(87)	(89)
Oak Leaf	30647000	C	647	929	70	8	(22)	(40)	(27)	(254)	(278)	(302)
Ovilla	30663000	C	663	729	70	8	(87)	(167)	(882)	(971)	(978)	(1,010)
Palmer	30671000	C	671	731	70	8	(83)	(170)	(242)	(313)	(350)	(390)
Pecan Hill	30686000	C	686	935	70	8	(3)	(9)	(9)	(30)	(37)	(44)
Red Oak	30739000	C	739	737	70	8	62	29	(32)	(100)	(142)	(182)
Waxahachie	30943000	C	943	633	70	8	1,565	1,252	695	6	(230)	(655)
County -Other	30996070	C	996	757	70	8	1,131	379	249	(240)	(508)	(740)
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							5,447	3,209	556	(3,206)	(4,426)	(5,866)
Manufacturing	31001070	C	1001	1001	70	8	564	325	268	(18)	(172)	(400)
Steam Electric Power	31002070	C	1002	1002	70	8	0	(15,000)	(15,000)	(15,000)	(18,000)	(18,000)
Mining	31003070	C	1003	1003	70	8	0	0	0	0	0	0
Irrigation	31004070	C	1004	1004	70	8	410	410	410	406	406	406
Livestock	31005070	C	1005	1005	70	8	514	514	514	514	514	514
SUBTOTAL OF NON-MUNICIPAL USES:							1,488	(13,751)	(13,808)	(14,098)	(17,252)	(17,480)
ELLIS COUNTY TOTAL							6,935	(10,542)	(13,252)	(17,304)	(21,678)	(23,346)

Fannin County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Bonham	30098000	C	98	65	74	2	2,822	2,794	2,770	2,710	2,201	1,594
Honey Grove	30415000	C	415	283	74	2	4	4	4	2	2	0
Honey Grove	30415000	C	415	283	74	3	101	87	79	63	36	9
Leonard	30517000	C	517	352	74	3	8	8	8	7	6	3
Leonard	30517000	C	517	352	74	8	79	76	73	69	56	37
Savoy	30807000	C	807	957	74	2	7	11	15	19	23	27
Trenton	30908000	C	908	978	74	8	129	125	123	117	111	102
County -Other	30996074	C	996	757	74	2	420	217	53	(12)	(13)	28

County-Other	30996074	C	996	757	74	3	342	280	235	216	232	264
County-Other	30996074	C	996	757	74	8	273	263	252	249	263	263
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							4,185	3,865	3,612	3,440	2,917	2,327
Manufacturing	31001074	C	1001	1001	74	2	113	108	103	98	82	62
Manufacturing	31001074	C	1001	1001	74	3	364	364	364	364	364	364
Manufacturing	31001074	C	1001	1001	74	8	0	0	0	0	0	0
Steam Electric Power	31002074	C	1002	1002	74	2	5,596	4,596	3,596	2,596	1,596	596
Steam Electric Power	31002074	C	1002	1002	74	3	0	0	0	0	0	0
Steam Electric Power	31002074	C	1002	1002	74	8	0	0	0	0	0	0
Mining	31003074	C	1003	1003	74	2	161	161	161	161	161	161
Mining	31003074	C	1003	1003	74	3	0	0	0	0	0	0
Mining	31003074	C	1003	1003	74	8	0	0	0	0	0	0
Irrigation	31004074	C	1004	1004	74	2	14,458	14,553	14,641	14,721	14,795	14,863
Irrigation	31004074	C	1004	1004	74	3	0	0	0	0	0	0
Irrigation	31004074	C	1004	1004	74	8	0	0	0	0	0	0
Livestock	31005074	C	1005	1005	74	2	567	567	567	567	567	567
Livestock	31005074	C	1005	1005	74	3	182	182	182	182	182	182
Livestock	31005074	C	1005	1005	74	8	37	37	37	37	37	37
SUBTOTAL OF NON-MUNICIPAL USES:							21,478	20,568	19,651	18,726	17,784	16,832
FANNIN COUNTY TOTAL							25,663	24,433	23,263	22,166	20,701	19,159

Freestone County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Fairfield	30289000	C	289	196	81	8	100	66	4	(50)	(69)	(89)
Teague	30884000	C	884	596	81	8	120	117	116	115	114	113
Teague	30884000	C	884	596	81	12	281	274	271	270	267	264
Wortham	30990000	C	990	668	81	8	(267)	(274)	(292)	(312)	(320)	(331)
County-Other	30996081	C	996	757	81	8	509	549	608	629	621	624
County-Other	30996081	C	996	757	81	12	20	30	43	48	46	46
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							763	762	750	700	659	627
Manufacturing	31001081	C	1001	1001	81	8	0	0	0	0	0	0
Manufacturing	31001081	C	1001	1001	81	12	0	0	0	0	0	0
Steam Electric Power	31002081	C	1002	1002	81	8	2,204	(8,796)	(10,796)	(10,796)	(14,988)	(14,988)
Steam Electric Power	31002081	C	1002	1002	81	12	0	0	0	0	0	0
Mining	31003081	C	1003	1003	81	8	153	171	242	257	267	270
Mining	31003081	C	1003	1003	81	12	1	0	0	0	0	0

Irrigation	31004081	C	1004	1004	81	8	358	358	358	358	358	358
Irrigation	31004081	C	1004	1004	81	12	1	1	1	1	1	1
Livestock	31005081	C	1005	1005	81	8	531	531	531	531	531	531
Livestock	31005081	C	1005	1005	81	12	46	46	46	46	46	46
SUBTOTAL OF NON-MUNICIPAL USES:							3,294	(7,689)	(9,618)	(9,603)	(13,785)	(13,782)
FREESTONE COUNTY TOTAL							4,057	(6,927)	(8,868)	(8,903)	(13,126)	(13,155)

Grayson County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Bells	30071000	C	71	824	91	2	(48)	(51)	(68)	(82)	(93)	(105)
Collinsville	30187000	C	187	765	91	8	(52)	(55)	(59)	(73)	(73)	(73)
Denison	30239000	C	239	158	91	2	21,030	21,103	21,159	21,136	21,118	21,012
Gunter	30370000	C	370	876	91	8	(61)	(68)	(103)	(124)	(141)	(158)
Howe	30419000	C	419	286	91	2	(142)	(154)	(149)	(223)	(222)	(220)
Howe	30419000	C	419	286	91	8	(29)	(32)	(31)	(50)	(49)	(48)
Luella	30548000	C	548	905	91	2	(65)	(67)	(69)	(71)	(73)	(76)
Pottsboro	30719000	C	719	797	91	2	23	9	(51)	(101)	(148)	(198)
Sherman	30827000	C	827	556	91	2	5,925	5,744	5,903	5,412	5,003	4,574
Southmayd	30847000	C	847	961	91	2	(115)	(121)	(125)	(129)	(136)	(143)
Tioga	30902000	C	902	974	91	8	(23)	(27)	(33)	(45)	(51)	(57)
Tom Bean	30904000	C	904	976	91	2	(110)	(111)	(118)	(125)	(127)	(134)
Van Alstyne	30925000	C	925	619	91	8	(115)	(266)	(496)	(685)	(886)	(1,132)
Whitesboro	30967000	C	967	650	91	2	(511)	(543)	(486)	(526)	(559)	(593)
Whitesboro	30967000	C	967	650	91	8	(14)	(16)	(12)	(17)	(19)	(20)
Whitewright	30968000	C	968	652	91	2	(138)	(146)	(153)	(160)	(165)	(170)
County-Other	30996091	C	996	757	91	2	(1,290)	(1,148)	(1,132)	(933)	(667)	(83)
County-Other	30996091	C	996	757	91	8	(356)	(324)	(304)	(253)	(196)	(69)
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							23,909	23,727	23,673	22,951	22,516	22,307
Manufacturing	31001091	C	1001	1001	91	2	(988)	(1,508)	(1,868)	(2,331)	(2,946)	(3,795)
Manufacturing	31001091	C	1001	1001	91	8	(4)	(5)	(5)	(6)	(7)	(8)
Steam Electric Power	31002091	C	1002	1002	91	2	0	0	0	0	0	0
Steam Electric Power	31002091	C	1002	1002	91	8	0	0	0	0	0	0
Mining	31003091	C	1003	1003	91	2	(343)	(344)	(351)	(362)	(373)	(384)
Mining	31003091	C	1003	1003	91	8	(289)	(199)	(169)	(180)	(179)	(186)
Irrigation	31004091	C	1004	1004	91	2	836	826	815	801	789	776
Irrigation	31004091	C	1004	1004	91	8	28	(48)	(128)	(360)	(448)	(542)
Livestock	31005091	C	1005	1005	91	2	374	374	374	374	374	374
Livestock	31005091	C	1005	1005	91	8	255	255	255	255	255	255

SUBTOTAL OF NON-MUNICIPAL USES:							(131)	(649)	(1,077)	(1,809)	(2,535)	(3,510)
GRAYSON COUNTY TOTAL							23,778	23,078	22,596	21,142	19,981	18,797

Henderson County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Athens	30041000	C	41	28	107	8	4,737	4,340	4,312	4,070	3,919	3,599
Eustace	30286000	C	286	864	107	8	11	6	2	2	4	8
Gun Barrel City	30369000	C	369	699	107	8	0	0	0	0	0	0
Mabank	30554000	C	554	375	107	8	0	0	0	0	0	0
Malakoff	30557000	C	557	383	107	8	(9)	(28)	(42)	(48)	(46)	(58)
Payne Springs	30682000	C	682	934	107	8	0	0	0	0	0	0
Seven Points	30818000	C	818	959	107	8	0	0	0	0	0	0
Tool	30906000	C	906	753	107	8	0	0	0	0	0	0
Trinidad	30909000	C	909	609	107	8	805	808	805	801	801	800
County-Other	30996107	C	996	757	107	8	0	0	0	0	0	0
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							5,544	5,126	5,077	4,825	4,678	4,349
Manufacturing	31001107	C	1001	1001	107	8	262	251	243	229	211	191
Steam Electric Power	31002107	C	1002	1002	107	8	9,501	9,501	9,501	9,501	9,501	9,501
Mining	31003107	C	1003	1003	107	8	311	334	355	371	387	401
Irrigation	31004107	C	1004	1004	107	8	2,373	2,373	2,373	2,373	2,373	2,373
Livestock	31005107	C	1005	1005	107	8	299	299	299	299	299	299
SUBTOTAL OF NON-MUNICIPAL USES:							12,746	12,758	12,771	12,773	12,771	12,765
HENDERSON COUNTY TOTAL							18,290	17,884	17,848	17,598	17,449	17,114

Jack County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Bryson	30124000	C	124	834	119	12	14	16	18	20	23	25
Jacksboro	30441000	C	441	302	119	8	801	762	742	694	642	586
County-Other	30996119	C	996	757	119	8	21	38	47	60	76	59
County-Other	30996119	C	996	757	119	12	10	20	25	31	43	30
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							846	836	832	805	784	700
Manufacturing	31001119	C	1001	1001	119	8	0	0	0	0	0	0
Manufacturing	31001119	C	1001	1001	119	12	0	0	0	0	0	0

Steam Electric Power	31002119	C	1002	1002	119	8	0	0	0	0	0	0
Steam Electric Power	31002119	C	1002	1002	119	12	0	0	0	0	0	0
Mining	31003119	C	1003	1003	119	8	111	174	193	202	198	189
Mining	31003119	C	1003	1003	119	12	1	3	3	4	5	5
Irrigation	31004119	C	1004	1004	119	8	110	310	310	310	310	310
Irrigation	31004119	C	1004	1004	119	12	19	19	19	19	19	19
Livestock	31005119	C	1005	1005	119	8	740	740	740	740	740	740
Livestock	31005119	C	1005	1005	119	12	275	275	275	275	275	275
SUBTOTAL OF NON-MUNICIPAL USES:							1,256	1,521	1,540	1,550	1,547	1,538
JACK COUNTY TOTAL							2,102	2,357	2,372	2,355	2,331	2,238

Kaufman County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Combine	30193000	C	193	766	129	8	(33)	(71)	(46)	27	6	(5)
Crandall	30210000	C	210	767	129	8	58	(80)	(194)	(304)	(395)	(477)
Dallas	30227000	C	227	151	129	8	(1)	(1)	(1)	1	1	(1)
Forney	30304000	C	304	207	129	8	154	(312)	(1,017)	(1,835)	(2,850)	(3,894)
Kaufman	30459000	C	459	313	129	8	148	(184)	(459)	(675)	(850)	(985)
Kemp	30463000	C	463	711	129	8	281	243	202	172	144	113
Mabank	30554000	C	554	375	129	8	0	0	0	0	0	0
Oak Grove	30646000	C	646	928	129	8	16	(17)	(37)	(50)	(59)	(64)
Terrell	30887000	C	887	599	129	8	8,321	7,808	7,349	6,871	6,616	6,315
County -Other	30996129	C	996	757	129	5	7	(11)	(35)	(59)	(81)	(92)
County -Other	30996129	C	996	757	129	8	1,231	(480)	(1,350)	(2,054)	(2,626)	(2,942)
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							10,182	6,895	4,412	2,094	(94)	(2,032)
Manufacturing	31001129	C	1001	1001	129	5	0	0	0	0	0	0
Manufacturing	31001129	C	1001	1001	129	8	136	(31)	(95)	(136)	(176)	(213)
Steam Electric Power	31002129	C	1002	1002	129	5	0	0	0	0	0	0
Steam Electric Power	31002129	C	1002	1002	129	8	(7,800)	(8,000)	(8,000)	(10,000)	(10,000)	(15,000)
Mining	31003129	C	1003	1003	129	5	0	0	0	0	0	0
Mining	31003129	C	1003	1003	129	8	(21)	(31)	(46)	(61)	(76)	(93)
Irrigation	31004129	C	1004	1004	129	5	0	0	0	0	0	0
Irrigation	31004129	C	1004	1004	129	8	(397)	(377)	(357)	(338)	(319)	(301)
Livestock	31005129	C	1005	1005	129	5	26	26	26	26	26	26
Livestock	31005129	C	1005	1005	129	8	494	494	494	494	494	494
SUBTOTAL OF NON-MUNICIPAL USES:							(7,562)	(7,919)	(7,978)	(10,015)	(10,051)	(15,087)
KAUFMAN COUNTY TOTAL							2,620	(1,024)	(3,566)	(7,921)	(10,145)	(17,119)

Navarro County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Blooming Grove	30090000	C	90	828	175	8	169	149	138	119	105	93
Corsicana	30207000	C	207	137	175	8	6,906	6,829	6,628	6,316	6,185	6,043
Dawson	30230000	C	230	855	175	8	587	555	521	497	484	473
Frost	30321000	C	321	868	175	8	20	21	22	23	24	25
Kerens	30466000	C	466	712	175	8	282	250	234	204	184	166
Rice	30746000	C	746	947	175	8	274	239	228	207	192	181
County -Other	30996175	C	996	757	175	8	2,078	1,765	1,706	1,504	1,283	1,086
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							10,316	9,808	9,477	8,870	8,457	8,067
Manufacturing	31001175	C	1001	1001	175	8	254	224	201	179	150	120
Steam Electric Power	31002175	C	1002	1002	175	8	0	0	0	0	0	0
Mining	31003175	C	1003	1003	175	8	8	2	(9)	(20)	(31)	(43)
Irrigation	31004175	C	1004	1004	175	8	2,901	2,841	2,841	2,841	2,841	2,841
Livestock	31005175	C	1005	1005	175	8	402	408	419	430	441	453
SUBTOTAL OF NON-MUNICIPAL USES:							3,565	3,475	3,452	3,430	3,401	3,371
NAVARRO COUNTY TOTAL							13,881	13,283	12,929	12,300	11,858	11,438

Parker County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Aledo	30009000	C	9	674	184	8	(17)	(154)	(369)	(611)	(732)	(732)
Annetta	30030000	C	30	814	184	8	(18)	(98)	(226)	(369)	(549)	(801)
Azle	30046000	C	46	31	184	8	17	(20)	(23)	(50)	(82)	(110)
Briar	30110000	C	110	682	184	8	6	(6)	(7)	(15)	(26)	(36)
Hudson Oaks	30422000	C	422	883	184	8	(39)	(286)	(870)	(1,645)	(1,645)	(1,645)
Mineral Wells	30600000	C	600	407	184	12	0	0	0	0	0	0
Reno	30744000	C	744	739	184	8	11	(12)	(21)	(50)	(89)	(112)
Springtown	30853000	C	853	574	184	8	18	(28)	(36)	(80)	(139)	(184)
Weatherford	30944000	C	944	634	184	8	(1,972)	(3,012)	(4,653)	(6,854)	(9,810)	(13,778)
Weatherford	30944000	C	944	634	184	12	(93)	(149)	(235)	(353)	(509)	(719)
Willow Park	30973000	C	973	756	184	8	(36)	(308)	(738)	(1,219)	(1,810)	(2,637)
County -Other	30996184	C	996	757	184	8	(616)	(1,680)	(1,735)	(2,556)	(2,046)	(720)
County -Other	30996184	C	996	757	184	12	(272)	(843)	(869)	(1,266)	(853)	72
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							(3,011)	(6,596)	(9,782)	(15,068)	(18,290)	(21,402)

Manufacturing	31001184	C	1001	1001	184	8	26	(18)	(58)	(101)	(143)	(179)
Manufacturing	31001184	C	1001	1001	184	12	(21)	(33)	(46)	(64)	(84)	(98)
Steam Electric Power	31002184	C	1002	1002	184	8	220	(5,796)	(5,809)	(9,823)	(11,837)	(11,850)
Steam Electric Power	31002184	C	1002	1002	184	12	0	0	0	0	0	0
Mining	31003184	C	1003	1003	184	8	(13)	(12)	(14)	(25)	(27)	(29)
Mining	31003184	C	1003	1003	184	12	(1,526)	(1,726)	(2,011)	(2,297)	(2,618)	(2,979)
Irrigation	31004184	C	1004	1004	184	8	495	495	495	491	491	491
Irrigation	31004184	C	1004	1004	184	12	1,357	1,357	1,357	1,347	1,347	1,347
Livestock	31005184	C	1005	1005	184	8	440	440	440	422	422	422
Livestock	31005184	C	1005	1005	184	12	420	420	420	403	403	403
SUBTOTAL OF NON-MUNICIPAL USES:							1,398	(4,873)	(5,226)	(9,647)	(12,046)	(12,472)
PARKER COUNTY TOTAL							(1,613)	(11,469)	(15,008)	(24,715)	(30,336)	(33,874)

Rockwall County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Dallas	30227000	C	227	151	199	8	(2)	(4)	(1)	2	1	(1)
Heath	30388000	C	388	702	199	8	110	(151)	(433)	(754)	(1,138)	(1,594)
Rockwall	30766000	C	766	513	199	8	590	(1,269)	(3,936)	(6,630)	(9,875)	(12,975)
Rowlett	30777000	C	777	521	199	8	195	(347)	(1,004)	(1,789)	(2,794)	(4,048)
Royse City	30779000	C	779	522	199	5	104	(218)	(626)	(1,760)	(2,439)	(3,062)
Wylie	30991000	C	991	669	199	8	3	(2)	(3)	(5)	(6)	(7)
County -Other	30996199	C	996	757	199	5	243	83	81	162	(53)	(232)
County -Other	30996199	C	996	757	199	8	1,537	1,058	986	1,084	523	(273)
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							2,780	(850)	(4,936)	(9,690)	(15,781)	(22,192)
Manufacturing	31001199	C	1001	1001	199	5	6	0	0	0	0	0
Manufacturing	31001199	C	1001	1001	199	8	66	(1)	(2)	(2)	(2)	(3)
Steam Electric Power	31002199	C	1002	1002	199	5	0	0	0	0	0	0
Steam Electric Power	31002199	C	1002	1002	199	8	0	(5,600)	(6,000)	(6,000)	(6,000)	(6,000)
Mining	31003199	C	1003	1003	199	5	33	33	33	33	33	33
Mining	31003199	C	1003	1003	199	8	0	0	0	0	0	0
Irrigation	31004199	C	1004	1004	199	5	0	0	0	0	0	0
Irrigation	31004199	C	1004	1004	199	8	0	0	0	0	0	0
Livestock	31005199	C	1005	1005	199	5	11	11	11	11	11	11
Livestock	31005199	C	1005	1005	199	8	45	45	45	45	45	45
SUBTOTAL OF NON-MUNICIPAL USES:							161	(5,512)	(5,913)	(5,913)	(5,913)	(5,914)
ROCKWALL COUNTY TOTAL							2,941	(6,362)	(10,849)	(15,603)	(21,694)	(28,106)

Tarrant County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Arlington	30037000	C	37	25	220	8	3,603	(3,534)	(2,683)	(7,465)	(12,009)	(16,236)
Azle	30046000	C	46	31	220	8	90	(105)	(132)	(277)	(466)	(633)
Bedford	30067000	C	67	44	220	8	494	(482)	(340)	(897)	(1,406)	(1,807)
Benbrook	30075000	C	75	51	220	8	4,933	3,133	2,760	1,929	1,118	412
Blue Mound	30093000	C	93	62	220	8	17	(15)	(12)	(32)	(52)	(67)
Briar	30110000	C	110	682	220	8	31	(35)	(42)	(81)	(133)	(178)
Burleson	30131000	C	131	87	220	8	19	(20)	(487)	(522)	(525)	(528)
Colleyville	30186000	C	186	125	220	8	318	(428)	(383)	(1,068)	(1,743)	(2,322)
Crowley	30218000	C	218	145	220	8	52	(55)	(1,387)	(1,598)	(1,802)	(2,043)
Dalworthington Gard.	30228000	C	228	692	220	8	30	(40)	(913)	(974)	(1,068)	(1,177)
Edgecliff	30267000	C	267	180	220	8	31	(28)	(551)	(541)	(528)	(518)
Euless	30285000	C	285	193	220	8	418	(1,363)	(327)	(860)	(1,356)	(1,739)
Everman	30287000	C	287	194	220	8	37	(33)	(631)	(602)	(573)	(544)
Forest Hill	30303000	C	303	206	220	8	86	(81)	(1,825)	(1,907)	(1,836)	(1,779)
Fort Worth	30311000	C	311	213	220	8	7,422	(6,074)	(5,786)	(13,464)	(22,503)	(30,333)
Grand Prairie	30353000	C	353	245	220	8	(540)	(1,161)	(8,587)	(8,439)	(8,461)	(8,473)
Grapevine	30360000	C	360	249	220	8	360	(410)	(324)	(909)	(1,489)	(1,982)
Haltom City	30375000	C	375	261	220	8	379	(361)	(6,737)	(6,700)	(6,584)	(6,517)
Haslet	30384000	C	384	879	220	8	11	(12)	(326)	(410)	(432)	(457)
Hurst	30428000	C	428	293	220	8	353	(330)	(6,897)	(6,641)	(6,579)	(6,515)
Keller	30461000	C	461	315	220	8	276	(6,051)	(7,136)	(7,656)	(7,746)	(7,882)
Kennedale	30465000	C	465	318	220	8	(1,018)	(1,699)	(2,024)	(2,293)	(2,826)	(3,257)
Lake Worth Village	30501000	C	501	341	220	8	36	(37)	(796)	(822)	(824)	(825)
Mansfield	30559000	C	559	384	220	8	283	(323)	(303)	(968)	(2,021)	(3,221)
North Richland Hills	30642000	C	642	435	220	8	1,078	(552)	(7,213)	(8,654)	(10,247)	(11,841)
Pantego	30677000	C	677	454	220	8	(400)	(404)	(423)	(411)	(401)	(401)
Pelican Bay	30688000	C	688	795	220	8	(167)	(212)	(272)	(323)	(358)	(397)
Richland Hills	30748000	C	748	499	220	8	62	(65)	(1,551)	(1,723)	(2,074)	(2,510)
River Oaks	30756000	C	756	505	220	8	67	(57)	(49)	(92)	(144)	(183)
Saginaw	30785000	C	785	527	220	8	124	(136)	(2,970)	(3,062)	(3,284)	(3,519)
Sansom Park Village	30802000	C	802	539	220	8	32	(28)	(512)	(502)	(488)	(479)
Southlake	30846000	C	846	570	220	8	373	(7,459)	(8,932)	(10,722)	(12,827)	(15,383)
Watauga	30942000	C	942	632	220	8	208	(202)	(4,336)	(4,543)	(4,757)	(4,656)
Westworth Village	30959000	C	959	644	220	8	19	(18)	(312)	(300)	(288)	(277)
White Settlement	30964000	C	964	651	220	8	125	(110)	(1,993)	(1,939)	(1,903)	(1,850)
County -Other	30996220	C	996	757	220	8	2,489	1,044	(7,034)	(11,149)	(20,402)	(19,359)
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							21,731	(27,743)	(81,466)	(106,617)	(139,017)	(159,476)

Manufacturing	31001220	C	1001	1001	220	8	2,811	(1,869)	(1,977)	(6,016)	(11,050)	(16,783)
Steam Electric Power	31002220	C	1002	1002	220	8	389	(401)	(411)	(960)	(1,807)	(2,347)
Mining	31003220	C	1003	1003	220	8	109	98	98	93	86	83
Irrigation	31004220	C	1004	1004	220	8	5,230	4,290	4,290	4,290	4,290	4,290
Livestock	31005220	C	1005	1005	220	8	0	0	0	0	0	0
SUBTOTAL OF NON-MUNICIPAL USES:							8,539	2,118	2,000	(2,593)	(8,481)	(14,757)
TARRANT COUNTY TOTAL							30,270	(25,625)	(79,466)	(109,210)	(147,498)	(174,233)

Wise County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
Alvord	30019000	C	19	810	249	8	(14)	(11)	(12)	(36)	(42)	(51)
Aurora	30044000	C	44	816	249	8	(32)	(49)	(66)	(86)	(81)	(82)
Boyd	30103000	C	103	760	249	8	(58)	(140)	(207)	(264)	(247)	(242)
Briar	30110000	C	110	682	249	8	9	(9)	(10)	(20)	(32)	(40)
Bridgeport	30113000	C	113	76	249	8	66	(41)	(40)	(102)	(178)	(249)
Chico	30163000	C	163	842	249	8	2	(1)	(20)	(23)	(27)	(29)
Decatur	30235000	C	235	153	249	8	98	(59)	(53)	(133)	(212)	(277)
Rhome	30745000	C	745	946	249	8	(33)	(66)	(75)	(100)	(116)	(132)
Newark	30635000	C	635	920	249	8	(44)	(80)	(105)	(127)	(142)	(160)
County -Other	30996249	C	996	757	249	8	417	(702)	(1,761)	(3,140)	(3,993)	(4,457)
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							411	(1,158)	(2,349)	(4,031)	(5,070)	(5,719)
Manufacturing	31001249	C	1001	1001	249	8	3,007	2,485	2,009	1,493	957	421
Steam Electric Power	31002249	C	1002	1002	249	8	0	(11,200)	(11,200)	(11,200)	(11,200)	(11,200)
Mining	31003249	C	1003	1003	249	8	7,033	7,071	7,031	6,740	6,460	6,208
Irrigation	31004249	C	1004	1004	249	8	624	624	624	583	583	583
Livestock	31005249	C	1005	1005	249	8	456	456	456	289	289	289
SUBTOTAL OF NON-MUNICIPAL USES:							11,120	(564)	(1,080)	(2,095)	(2,911)	(3,699)
WISE COUNTY TOTAL							11,531	(1,722)	(3,429)	(6,126)	(7,981)	(9,418)

Johnson County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
BURLESON	NA	G	131	87	126	8	0	0	0	0	0	0
MANSFIELD	NA	G	559	384	126	8	0	0	0	0	0	0

SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							0	0	0	0	0	0
SUBTOTAL OF NON-MUNICIPAL USES:							0	0	0	0	0	0
JOHNSON COUNTY TOTAL							0	0	0	0	0	0

Hill County

[A] Water User Group	[B] Water User Group Identifier	[C] Regional Water Planning Group	[D] Sequence Number	[E] City Number	[F] County Number	[G] Basin Number	[H] 2000 Surplus / (Shortage) (ac-ft/yr)	[I] 2010 Surplus / (Shortage) (ac-ft/yr)	[J] 2020 Surplus / (Shortage) (ac-ft/yr)	[K] 2030 Surplus / (Shortage) (ac-ft/yr)	[L] 2040 Surplus / (Shortage) (ac-ft/yr)	[M] 2050 Surplus / (Shortage) (ac-ft/yr)
COUNTY-OTHER	70996109	G	996	757	109	12	0	0	0	0	0	0
SUBTOTAL OF MUNICIPAL AND COUNTY-OTHER USES:							0	0	0	0	0	0
SUBTOTAL OF NON-MUNICIPAL USES:							0	0	0	0	0	0
HILL COUNTY TOTAL							0	0	0	0	0	0

APPENDIX M

TWDB TABLE 8
COMPARISON OF DEMANDS WITH CURRENT WATER SUPPLIES BY MAJOR WATER PROVIDER

APPENDIX M
TWDB TABLE 8
COMPARISON OF DEMANDS WITH CURRENT
WATER SUPPLIES BY MAJOR WATER PROVIDER

Introduction

TWDB Table 8 compares the currently connected supplies to the projected water demands for each of the five major water providers in Region C. The resulting numbers point out possible timing for water shortages that may occur in the future for the major water providers. Please see Appendix J for the list of customers of the major water providers. The following information is required by the TWDB to be included in TWDB Table 8:

A. Major Water Provider Name

B. Major Water Provider (TWDB Alpha Number)

C. County Number (see key before TWDB Table 8)

D. Basin Number (see key before TWDB Table 8)

E-J. Value for current supplies available minus demands for years 2000, 2010, 2020, 2030, 2040, and 2050 (Needs shown as negative numbers)

Key to Codes in TWDB Table 8

County Number Code

43	Collin
49	Cooke
57	Dallas
61	Denton
70	Ellis
74	Fannin
81	Freestone
91	Grayson
107	Henderson
119	Jack
126	Johnson

129	Kaufman
175	Navarro
184	Parker
199	Rockwall
220	Tarrant
249	Wise

Basin Numbers

2	Red River Basin
3	Sulphur River Basin
5	Sabine River Basin
6	Neches River Basin
8	Trinity River Basin
12	Brazos River Basin

TWDB Table 8
Comparison of Water Demands with Current Water Supplies by Major Water Provider of Municipal and Manufacturing Water

A	B	C	D	E	F	G	H	I	J	K
Major Water Provider Name	Major Water Provider Number	County Number	Basin Number	Value for Year 2000 (ac-ft-yr)	Value for Year 2010 (ac-ft-yr)	Value for Year 2020 (ac-ft-yr)	Value for Year 2030 (ac-ft-yr)	Value for Year 2040 (ac-ft-yr)	Value for Year 2050 (ac-ft-yr)	Comment
Dallas Water Utilities	206800	043	08	(1,000)	(1,708)	(1,207)	705	188	(127)	
Dallas Water Utilities	206800	057	08	(64,030)	(105,450)	(19,853)	20,603	2,540	(6,888)	
Dallas Water Utilities	206800	061	08	(7,211)	(17,472)	(16,153)	495	130	(91)	
Dallas Water Utilities	206800	070	08	(139)	(262)	(53)	0	0	0	
Dallas Water Utilities	206800	129	08	(34)	(72)	(47)	28	7	(6)	
Dallas Water Utilities	206800	199	08	(2)	(4)	(1)	2	1	(1)	
Dallas Water Utilities	206800	220	08	(570)	(1,133)	0	0	0	0	
DALLAS TOTALS				(72,986)	(126,101)	(37,314)	21,833	2,866	(7,113)	
Fort Worth	298900	061	08	144	(222)	0	0	0	0	
Fort Worth	298900	126	08	0	0	0	0	0	0	
Fort Worth	298900	220	08	10,521	(8,803)	(6,288)	(15,075)	(25,665)	(35,373)	
FORT WORTH TOTALS				10,665	(9,025)	(6,288)	(15,075)	(25,665)	(35,373)	
North Texas Municipal Water District	000160	043	05	9	(14)	(376)	(700)	(1,047)	(1,100)	
North Texas Municipal Water District	000160	043	08	17,106	(26,722)	(74,042)	(115,490)	(158,090)	(191,869)	
North Texas Municipal Water District	000160	057	08	14,710	(16,208)	(36,231)	(50,156)	(62,185)	(69,605)	
North Texas Municipal Water District	000160	061	08	30	(71)	(172)	(274)	(348)	(414)	
North Texas Municipal Water District	000160	129	05	7	(11)	(35)	(59)	(81)	(92)	
North Texas Municipal Water	000160	129	08	975	(1,160)	(3,089)	(4,900)	(6,722)	(8,292)	

A	B	C	D	E	F	G	H	I	J	K
Major Water Provider Name	Major Water Provider Number	County Number	Basin Number	Value for Year 2000 (ac-ft-yr)	Value for Year 2010 (ac-ft-yr)	Value for Year 2020 (ac-ft-yr)	Value for Year 2030 (ac-ft-yr)	Value for Year 2040 (ac-ft-yr)	Value for Year 2050 (ac-ft-yr)	Comment
District										
North Texas Municipal Water District	000160	199	05	171	(218)	(626)	(1,760)	(2,492)	(3,294)	
North Texas Municipal Water District	000160	199	08	1,245	(1,832)	(5,512)	(9,216)	(14,412)	(20,020)	
NTMWD TOTALS				34,253	(46,236)	(120,083)	(182,555)	(245,377)	(294,686)	
Tarrant Regional Water District	000190	061	08	144	(222)	0	0	0	0	
Tarrant Regional Water District	000190	070	08	94	(19,904)	(19,829)	(19,763)	(19,729)	(19,688)	
Tarrant Regional Water District	000190	107	08	0	0	0	0	0	0	
Tarrant Regional Water District	000190	119	08	(263)	(263)	(263)	(263)	(263)	(263)	
Tarrant Regional Water District	000190	126	08	0	0	0	0	0	0	
Tarrant Regional Water District	000190	129	08	0	0	0	0	0	0	
Tarrant Regional Water District	000190	175	08	0	0	0	0	0	0	
Tarrant Regional Water District	000190	184	08	(813)	(5,373)	(6,788)	(9,700)	(12,134)	(14,713)	
Tarrant Regional Water District	000190	184	12	0	(992)	(1,104)	(1,619)	(1,362)	(719)	
Tarrant Regional Water District	000190	220	08	16,413	(16,968)	(10,956)	(32,120)	(54,059)	(77,192)	Includes Fort Worth and TRA (Bedford, Colleyville, Euless, Grapevine, and North Richland Hills)
Tarrant Regional Water District	000190	249	08	(2,778)	(11,613)	(12,588)	(14,178)	(7,561)	(8,281)	
TRWD TOTALS				12,797	(55,335)	(51,528)	(77,643)	(95,108)	(120,856)	
Trinity River Authority	000171	057	08	0	(11,218)	(11,218)	(11,233)	(11,238)	(11,242)	
Trinity River Authority	000171	070	08	(8,713)	(31,252)	(31,674)	(33,150)	(33,911)	(34,307)	
Trinity River Authority	000171	081	08	0	0	0	0	0	0	
Trinity River Authority	000171	175	08	1,122	1,122	1,122	1,122	1,122	852	
Trinity River Authority	000171	220	08	1,939	(2,055)	(1,684)	(4,640)	(7,655)	(9,977)	

A	B	C	D	E	F	G	H	I	J	K
Major Water Provider Name	Major Water Provider Number	County Number	Basin Number	Value for Year 2000 (ac-ft-yr)	Value for Year 2010 (ac-ft-yr)	Value for Year 2020 (ac-ft-yr)	Value for Year 2030 (ac-ft-yr)	Value for Year 2040 (ac-ft-yr)	Value for Year 2050 (ac-ft-yr)	Comment
TRA TOTALS				(5,652)	(43,403)	(43,454)	(47,901)	(51,682)	(54,674)	
Notes:										
Year 2000 shortages for Tarrant Regional Water District (in Jack, Parker, and Wise Counties) are not real. They are a results of Texas Water Development Board (TWDB) regulations on table development. The TWDB regulations require all contracts to be included at full face value, whether or not the demands actually occur. By contrast, the supplies are limited by those that are currently connected. Tarrant Regional Water District has contracts with entities who do not yet need the full contracted amount of water.										
Year 2000 shortage for Trinity River Authority (in Ellis County and TRA totals) is not real. It is a result of Texas Water Development Board (TWDB) regulations on table development. The TWDB regulations require all contracts to be included at full face value, whether or not the demands actually occur. By contrast, the supplies are limited by those that are currently connected. Trinity River Authority has contracts with entities who do not yet need the full contracted amount of water.										

APPENDIX N

TWDB TABLES 9 AND 10
SOCIO - ECONOMIC IMPACTS OF NOT MEETING WATER NEEDS

APPENDIX N
TWDB TABLES 9 AND 10
SOCIO - ECONOMIC IMPACTS OF NOT MEETING WATER NEEDS

Introduction

The tables included in this appendix are required by the Texas Water Development Board. TWDB Table 9 relays the socio - economic impacts of not meeting water needs for Region C. TWDB Table 10 displays the socio - economic impacts of not meeting water needs by river basin. These two tables were developed by the TWDB based on shortage data provided by Region C in July of 2000. These shortages have changed slightly in subsequent analyses, but the impact should remain very similar to those shown here.

N-1. Summary of Results

Section 357.7(4) of the rules for implementing Senate Bill 1 require that the social and economic impact of not meeting regional water supply needs be evaluated by the Regional Water Planning Groups (RWPG). The Texas Water Development Board (TWDB) is required to provide technical assistance, upon request, to complete the evaluations. The Board has offered its staff to conduct the required analysis of the impacts of the identified needs for each region, using a common methodological approach for all regions.

The Region C Regional Water Planning Group submitted a request to TWDB for assistance. Board staff has completed the analysis of the social and economic impacts of not meeting water needs as identified in Exhibit B, TWDB Table 7. TWDB evaluated each negative value, showing an unmet water need for an individual water user group (WUG), using data that connected water use with the economy and the population of the region.

The detailed results of the analysis are found in TWDB Tables 9 and 10, included at the end of this appendix. Each water user group with a need is evaluated in terms of direct and indirect economic and social impact on the region resulting from the shortage. Economic variables chosen by TWDB for this analysis include gross economic output (sales and business gross income), employment (number of jobs) and personal income (wages, salaries and proprietors net receipts). The effects of shortages on population and school enrollments

are the social variables of the analysis. Declining populations indicate a deprecation of social services in most, but not every case, while declining school enrollment indicates loss of younger cohorts of the population and possibilities of strains on the tax bases, when combined with economic losses. RWPGs are allowed to expand this analysis at their discretion.

The purpose of this element of Senate Bill 1 planning is to give the regions an estimate of the potential costs of not acting to meet anticipated needs in each water user group, or conversely, the potential benefit to be gained from devising a strategy to meet a particular need. Collectively, the summation of all the impacts gives the region a view of the ultimate magnitude of the impacts caused by not meeting all of the entire list of needs. These summations should be considered a worst-case scenario for the region, since the likelihood of not meeting the entire list of needs is very small.

Impacts of Unmet Water Needs for the Region

The Region C Regional Water Planning Group identified individual water user groups which showed an unmet need during drought-of-record supply conditions for each decade from 2000 to 2050.

The region projected that total water demands would grow from 1.38 million acre-feet in 2000 to 2.15 million acre-feet in 2030, rising steadily to 2.54 million acre-feet in 2050.

Under extreme supply limitations and with no management strategies in place, water shortages would amount to 91 thousand acre-feet in 2000, rising to 836 thousand acre-feet in 2030 and to 1.2 million acre-feet by 2050.

The water needs of the region amount to about 31% of the forecasted demand by 2020, rising to 44% of demand in 2040, and to 47.5% of demand in 2050. This means that by 2050 the region would be able to supply only 52.5% of the projected needs unless supply development or other water management strategies are implemented. (See Table N-1 and Figure N-1)

Table N-1
Relationship of Water Needs and Impacts to Projections without Constraints, Region C, 2000-2050

Water

Decade	Projected Demand (acre-feet)	Projected Water Shortage (acre-feet)	Percent Shortage
2000	1,376,373	91,046	6.6%
2010	1,695,661	339,957	20.0%
2020	1,944,893	600,677	30.9%
2030	2,149,826	836,375	38.9%
2040	2,368,188	1,038,801	43.9%
2050	2,536,902	1,203,947	47.5%

Employment

Decade	Baseline Employment (FTE jobs)	Employment With Water Shortage (FTE jobs)	Percent Loss
2000	2,500,725	2,340,801	6.4%
2010	2,955,702	2,438,551	17.5%
2020	3,316,463	2,481,154	25.2%
2030	3,646,334	2,488,083	31.8%
2040	4,049,283	2,557,832	36.8%
2050	4,425,184	2,605,111	41.1%

Population

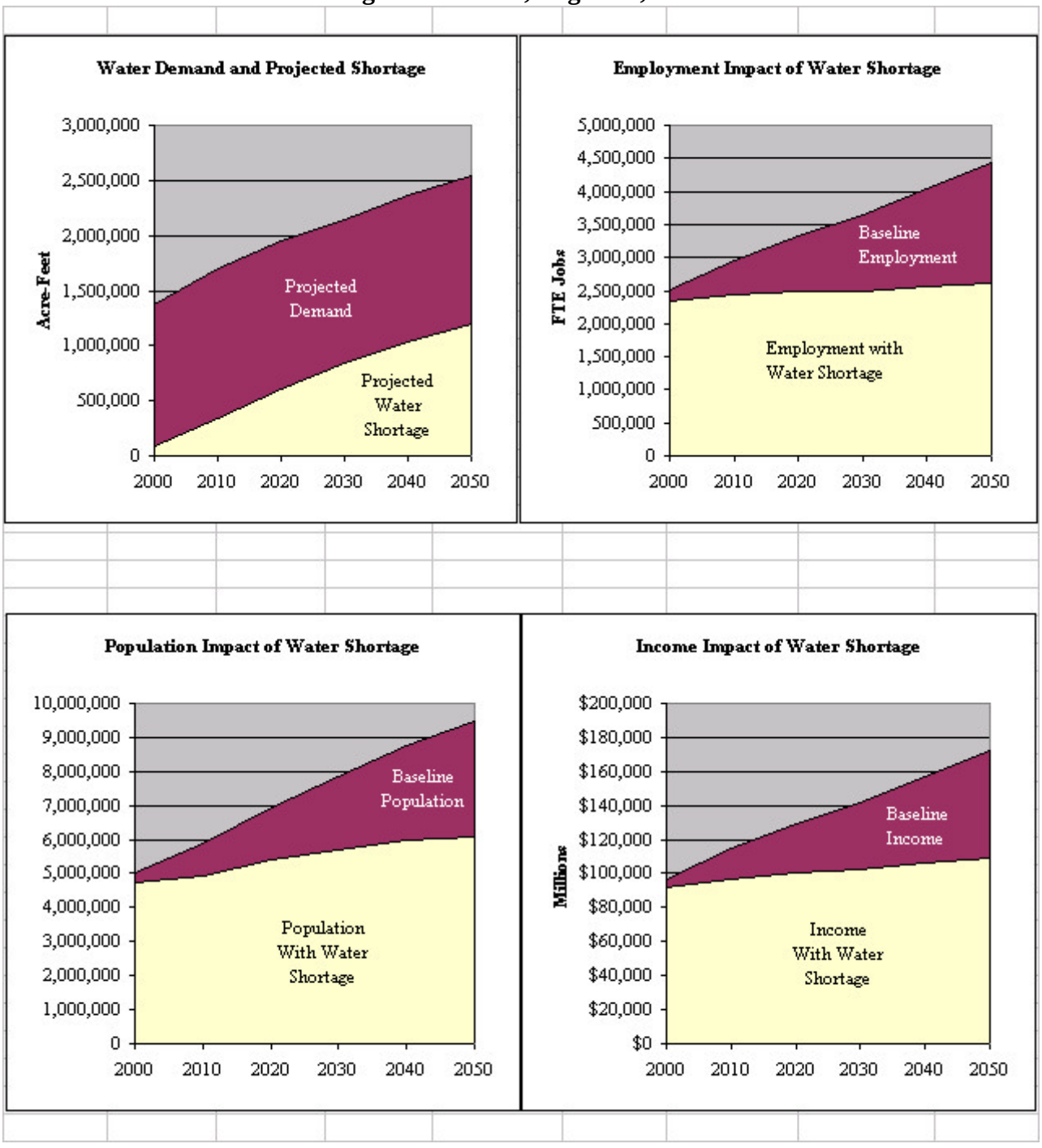
Decade	Baseline Population	Population With Water Shortage	Percent Loss
2000	5,012,860	4,723,816	5.8%
2010	5,882,173	4,938,757	16.0%
2020	6,931,543	5,389,966	22.2%
2030	7,850,797	5,693,234	27.5%
2040	8,778,041	5,988,297	31.8%
2050	9,481,157	6,078,289	35.9%

Income

Decade	Baseline Income (millions, 1999 $)	Income With Water Shortage (millions, 1999 $)	Percent Loss
2000	97,086	91,490	5.8%
2010	114,749	96,627	15.8%
2020	128,755	100,199	22.2%
2030	141,562	102,261	27.8%
2040	157,205	106,390	32.3%
2050	171,799	109,505	36.3%

Note: These impacts are based on shortage data provided to the TWDB by Region C in December 2000.

Figure N-1
Summary of Socio-Economic Impacts of
Not Meeting Water Needs, Region C, 2000 - 2050



Note: These impacts are based on shortage data provided to the TWDB by Region C in December 2000.

Economic Growth Limitations

The difference between expected future growth, unrestricted by water shortage, and expected growth restricted by unmet water needs provides the measure of impact.

Employment–

Left entirely unmet, the level of shortage in 2010 results in 517 thousand fewer jobs than would be expected in unrestricted development (without water needs) by 2010. The gap between unrestricted and restricted job growth grows to 1.16 million by 2030,and to 1.82 million jobs that the restricted economy could not create by 2050.

Population–

The forecasted population growth of the region would be economically restricted by curtailed potential job creation. This in turn causes both an outmigration of some current population and an expected curtailment of future population growth. Compared to the baseline growth in population, the region could expect 743 thousand fewer people in 2010, growing to 2.16 million fewer in 2030 and 3.4 million fewer in 2050. The expected 2050 population under the severe shortage conditions would be 36% lower than projected in the region's most likely growth forecast.

Income–

The potential loss of economic development in the region amounts to about 16% less income to people in 2010, with the gap growing to 28% less than expected in 2030. By 2050 the region would have 36% less income than is currently projected assuming no water restrictions.

Water User Groups with Shortages

The economic and social impact of an unmet water need varies greatly depending on the type of Water User Group for which the shortage is anticipated. On a per acre-foot

basis, the largest impacts will generally result from shortages in manufacturing and municipal uses, while shortages for irrigation will typically result in the smallest impact. Table N-2 presents the impacts of unmet water needs summarized for each of the six types of Water User Group.

The majority of the economic and social impacts of unmet water needs in Region C results from municipal water shortages. In 2010, municipalities have unmet needs of 257 thousand acre-feet, 76% of the total unmet needs. The economic impacts of this shortage (443 thousand jobs, $38 billion in output, and $14.7 billion of income) represent approximately 75-85% of the total impacts. By 2050, unmet municipal needs total 1.05 million acre-feet (87% of the total) resulting in 1.64 million jobs not created, and reductions of $143.2 billion in potential output and $54.3 billion in potential income.

The impact of not meeting manufacturing needs increases from 2020 through 2050. In 2010, manufacturing has unmet needs of 13 thousand acre-feet, 4% of the total unmet needs. The economic impacts of this shortage include loss of 57 thousand jobs (11% of the total employment impact) and $8 billion in output (16% of the total output impact). In 2050, unmet manufacturing needs are just over 33 thousand acre-feet (3% of the total) resulting in 198 thousand jobs not created and reduction of $20.7 billion in output (8% of the total output impact).

Significant shortages are also expected in the generation of steam electric power. In 2010, the unmet needs for steam electric are 64 thousand acre-feet, 19% of the total unmet needs. The economic impacts of this shortage are 16 thousand lost jobs, $3.4 billion in output, and $942 million of income. By 2050, unmet steam electric needs total 110 thousand acre-feet (9% of the total) resulting in 27 thousand jobs not created, and reductions of $5.8 billion in potential output and $1.6 billion in potential income.

Unmet needs are also forecast for mining, irrigation, and livestock, each having an impact of less than a thousand jobs in any given year.

Interpretation of the Results

Users are cautioned not to assume that the entire list of needs with impacts is a prediction of future water disasters. These data simply give regional planners one source

Table N-2
Summary of Impacts by Decade and Category
Region C, 2000 - 2050

Category	Decade	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)	Number of WUGs with Needs
Municipal	2000	-73,097	133,746	11,368.3	241,633	54,538	4,453.8	88
Manufacturing	2000	-5,702	23,613	3,288.0	42,867	9,637	999.9	5
Steam Elec.	2000	-7,800	1,932	411.2	3,478	773	114.5	1
Mining	2000	-3,631	590	118.2	1,005	250	27.0	7
Irrigation	2000	-436	11	0.3	15	6	0.1	2
Livestock	2000	-380	31	1.3	46	17	0.4	2
TOTAL		-91,046	159,923	15,187.3	289,044	65,221	5,595.8	
Municipal	2010	-257,325	443,323	38,031.8	809,160	183,159	14,725.1	185
Manufacturing	2010	-13,443	57,212	7,966.4	104,088	23,425	2,422.7	11
Steam Elec.	2010	-64,180	15,896	3,383.5	28,877	6,488	942.5	10
Mining	2010	-4,171	678	135.8	1,215	283	31.0	6
Irrigation	2010	-458	12	0.3	20	7	0.1	3
Livestock	2010	-380	31	1.3	56	19	0.4	2
TOTAL		-339,957	517,151	49,519.2	943,416	213,381	18,121.8	
Municipal	2020	-508,066	762,700	66,951.4	1,407,866	319,960	25,169.2	193
Manufacturing	2020	-12,566	53,404	7,436.2	98,485	22,406	2,261.4	11
Steam Elec.	2020	-73,946	18,315	3,898.3	33,644	7,673	1,085.9	10
Mining	2020	-5,207	846	169.6	1,510	345	38.7	7
Irrigation	2020	-512	13	0.4	21	5	0.1	3
Livestock	2020	-380	31	1.3	51	13	0.4	2
TOTAL		-600,677	835,309	78,457.1	1,541,577	350,402	28,555.8	
Municipal	2030	-734,775	1,073,656	94,703.2	1,999,740	461,576	35,381.7	190
Manufacturing	2030	-14,237	63,742	8,875.7	118,801	27,403	2,699.2	12
Steam Elec.	2030	-79,816	19,769	4,207.8	36,968	8,478	1,172.1	10
Mining	2030	-6,306	1,025	205.4	1,934	440	46.8	7
Irrigation	2030	-742	19	0.5	36	10	0.2	3
Livestock	2030	-499	41	1.7	84	21	0.5	2
TOTAL		-836,375	1,158,251	107,994.2	2,157,563	497,928	39,300.6	
Municipal	2040	-912,154	1,362,053	119,676.4	2,548,117	587,367	44,935.8	193
Manufacturing	2040	-23,221	104,676	14,575.6	195,603	45,015	4,432.7	12
Steam Elec.	2040	-94,696	23,454	4,992.2	43,629	10,086	1,390.6	10
Mining	2040	-7,425	1,207	241.8	2,272	531	55.1	7
Irrigation	2040	-806	20	0.6	40	11	0.2	3
Livestock	2040	-499	41	1.7	83	22	0.5	2
TOTAL		-1,038,801	1,491,451	139,488.3	2,789,744	643,032	50,815.0	
Municipal	2050	-1,051,062	1,642,675	143,192.5	3,071,736	709,497	54,317.0	199
Manufacturing	2050	-32,834	148,684	20,703.4	277,784	63,916	6,296.2	12
Steam Elec.	2050	-109,965	27,236	5,797.2	50,646	11,705	1,614.9	10
Mining	2050	-8,711	1,416	283.7	2,591	583	64.7	8
Irrigation	2050	-876	22	0.6	40	8	0.2	3
Livestock	2050	-499	41	1.7	71	14	0.5	2
TOTAL		-1,203,947	1,820,073	169,979.1	3,402,868	785,723	62,293.5	

of information by which to develop efficient and effective means to meet the needs and avoid calamities.

Some clarification is needed to understand the impact numbers. The following points must be kept in mind when using the data:

The impacts are expressed in terms of regional impact. Thus, individual water user group shortages are shown as they influence the entire region's economy and not just the limits of the direct impact. The total impact of municipal shortage for a particular city, for example, includes the direct impact within the city limits and the impact indirectly through the region. The indirect linkages were derived from regional economic models. There are no models for individual water user groups.

While the entirety of an estimated impact applies to the region as a whole, a significant portion will generally be felt in the local area where the shortage occurs. An impact that is of a small magnitude relative to impacts of other shortages on other areas may be extremely severe if its magnitude is large relative to the size of the local economy. Thus, while the absolute magnitude of agricultural shortages may appear to be small, the true severity of the impact may be much more significant to the surrounding rural area.

Water supplies are calculated on drought-of-record levels. Shortages that show up for the 2000 decade and beyond are considered to be mostly the result of severe dry conditions; this contributes to the apparent abnormally large size of some impacts. This approach to supply analysis results in a worst-case scenario. Historically, most water user groups have at least partially met their needs through management of the remaining supplies, either by conservation, limitations on lower-valued uses such as lawn watering, or finding alternative sources of water. The results in this report assume no applied management strategies. The entirety of the needs is not met in any fashion.

The analysis begins by calculating water use coefficients–defined as production (dollars of sales to final customers, or final demand) resulting from use of an acre-foot of water. This measure is considered an average, not marginal measure of water use. Thus,

the analysis does not attempt to measure the market forces that would tend to drive the price of water higher or reserve limited water for the highest-valued uses, as it becomes scarce. The average value approach was used because the analysis is intended to show the present value in today's regional economies of differing amounts of water use. With this information analysts can answer the question, "How much water does it take to support the current level and structure of economic activity and population?" The baseline projections for the future of regional economies assume a continuation of this known relationship of volumes of water use to economic output, under current structures of use. The models do not attempt to estimate the market allocation of the resource among competing activities because this change in structure is considered a possible management strategy–relying on market forces to work in a water-marketing system. Marginal cost analysis would be necessary for evaluating such an approach.

The Municipal water use category includes commercial establishments. The impacts from even small shortages in many such establishments are considerably higher on a per-acre-foot basis than in any other category. Thus, relatively small Municipal shortages can have a very large amount of economic impact, since the analysis assumes a direct relationship between curtailed water use and lost economic production. Since this analysis is intended to provide impacts without assuming any strategies, the normal response of conservation programs is not assumed. The impact data appear to overstate the Municipal category, but the results are consistently measured, since no response to the shortage is assumed that would mitigate loss of critical water used in commercial and residential settings.

The sizes of the projected impacts do not represent reductions from the current levels of economic activity or population. That is, the data are a comparison between a baseline forecast, assuming no water shortages, and a restricted forecast, based on the assumption of future water shortages. In some cases, with severe water shortages the regional economy could actually decline, dropping employment below current levels. For most regions, however, the measurement of impact represents an opportunity cost, or lost potential development that would be foregone in the absence of water management strategies.

N-2. Overview of the Methodology

Estimation of the socioeconomic impact of unmet water needs begins with estimation of the direct impact of the absence of water on the individual or business making productive use of the water. The direct economic impact of unmet water needs is defined as the dollar value of final demand (production for sale to final consumers) that could not be produced because of the absence of water. This direct impact per acre-foot was estimated by region for each type of water user – residential, commercial, manufacturing, irrigation, livestock, mining, and steam-electric.

The term *Water Use Coefficients* is used in this study to refer to the direct impact on the different water user groups of the loss of one acre-foot of water. Estimates were based on the average value of output added per acre-foot of water used by those firms/individuals that are reliant on water (i.e., where lack of water would result in inability to operate or at least cause significant curtailment of operations).

The total regional impact of water shortage does not end with the direct impact. Indirect impacts (often referred to as third-party impacts) refer to the reduction of output by firms/individuals which result from change in operations by those who are directly impacted by lack of water. Those who are directly impacted, producing less due to lack of water, will make fewer purchases of inputs, thus resulting in losses to the firms/individuals who produce and sell those products. These firms, facing less demand for their products, then reduce their purchases from their own suppliers. Indirect impacts can thus be said to continue to ripple throughout the economy.

The most common method of estimating the extent of indirect impact is the *Input-Output Model*. This type of model uses actual data from local economies to show the buying and selling linkages among the different economic sectors. For this study, input-output models were assembled for each of the 16 regions from county-level input-output models developed by the Minnesota Implan Group. Data from these models are available in Attachment N-2.

The total extent of economic loss, direct plus indirect impact relative to the estimated direct impact, is derived from the input-output model in the form of a *multiplier*.

Multipliers have been derived to estimate the total impact on three important economic variables – Total business output, personal income, and employment.

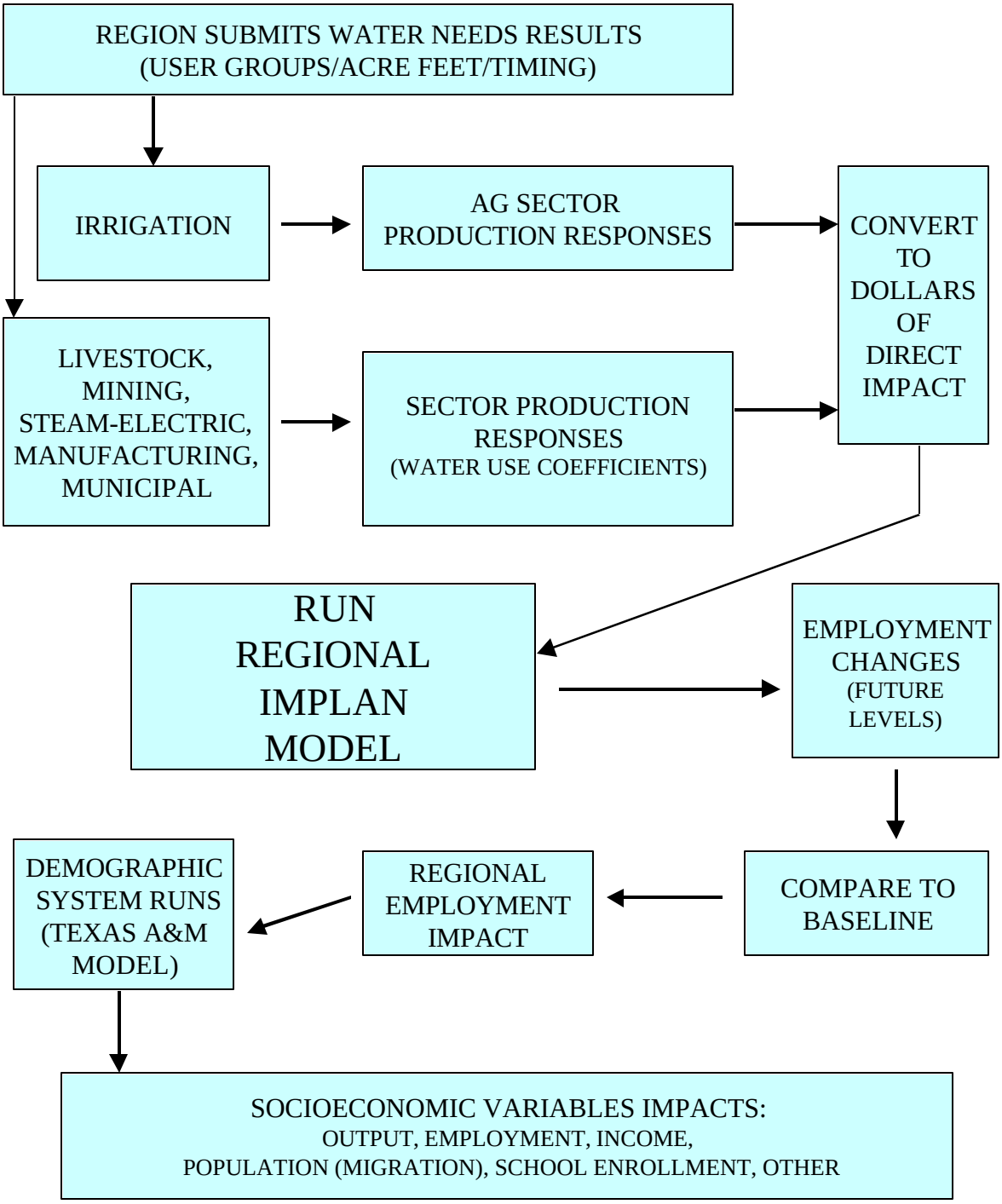
In addition to the economic impacts related to water shortages, demographic changes would also be expected to take place. While availability of jobs is not the sole reason for living in a given place, the absence of jobs created would be expected to cause many current residents to leave a region in search of other opportunities or cause reduction of anticipated migration into the region by current nonresidents. Thus, the estimated employment impact was used to estimate change in two important social variables – regional population and school enrollment.

The relationship between employment change and change in population and school enrollment was estimated using the model developed for the Texas Population Estimates and Projections Program, specifically modified for the purposes of this study by the Department of Rural Sociology at Texas A&M University.

Detailed Data Availability

The data TWDB Tables 9.00 through 9.50 show the impacts on the socioeconomic variables for each water user group by decade, 2000 (TWDB Table 9.00) through 2050 (TWDB Table 9.50). TWDB Tables 10.00 through 10.50 correspond to the same decades as for Table(s) 9, but provides additional detail on the impact in each river basin where a shortage for a particular water user group occurs in two or more basins. Users can consult the tables to determine any remaining unmet needs after the management strategies to meet the needs are determined by the RWPG. Each unmet, or partially met, need can be added together to determine the remaining economic development costs of not meeting the needs.

FLOW OF THE ANALYSIS SYSTEM



Under the Rules the RWPG can determine any social impact or other economic variables of impact at its discretion. The analysis submitted by TWDB represents the assistance provided upon request. The underlying data and calculation techniques are available to each region.

The Attachments to this report will provide the RWPG with details of the data used in its region and the worksheets used in the calculations. Staff of TWDB is available to answer technical questions about the data.

Summary Data

Table N-2 provides details of the summary of regional water needs before management strategies are in place, including the needs impacts listed by category of use.

The Table should be used only for measuring the extreme limit of lost potential economic development for the region as a whole, caused by complete lack of development of water supplies in the region for those water user groups in need of supply.

The data are not a prediction or forecast of water shortages, but show the cumulative effect of simultaneous unmet needs for those with potential shortages.

Water use categories include Municipal (residential and commercial), Manufacturing (industry), Steam Electric Power (consumptive use), Mining (including oil and gas), Irrigation (on-farm water use) and Livestock. The level of impact is largely determined by which category has an unmet shortage. Under the analysis system, small amounts of water shortage in the Municipal category can cause relatively large economic impacts, since water use is measured against value of production. Thus, unmet needs in the Municipal category often overshadow those in other categories. Often, however, relatively small adjustments to the supply allocations can be strategically made to meet less water intensive needs, producing large positive impacts. These decisions are part of the RWPGs responsibilities. The data provided by the Summary tables can point to the sources of most of the potential economic and social impacts.

N-3. Exhibit B, TWDB Tables 9 and 10

TWDB Tables 9 (Year 2000) through 9 (Year 2050) show the impacts on the socioeconomic variables for each water user group by decade, 2000 (TWDB Table 9, Year 2000) through 2050 (TWDB Table 9, Year 2050). TWDB Tables 10 (Year 2000) through 10 (Year 2050) correspond to the same decades as for TWDB Table(s) 9, but provides additional detail on the impact in each river basin where a shortage for a particular water user group occurs in two or more basins.

Note: In these tables, for all entities other than cities, the last three digits of the Water User Group identifier represent the county code. The following list shows county codes and corresponding county names for this region.

Code	County Name
43	Collin
49	Cooke
57	Dallas
61	Denton
70	Ellis
74	Fannin
81	Freestone
91	Grayson
107	Henderson
119	Jack
129	Kaufman
175	Navarro
184	Parker
199	Rockwall
220	Tarrant
249	Wise

Attachment N-1
Water Use Coefficients
Region C Water Planning Region

Water Use Coefficients, as used in this study, represent the average dollar value of output sold to final demand per acre-foot of water used in the production of this output.

For 4 of the 6 types of Water User Group, a single Water Use Coefficient has been estimated for all users in the region:

Water User Group	Water Use Coefficient ($ per acre-foot)
Steam Electric	35,012
Mining	21,029
Irrigation	467
Livestock	1,950

The Municipal water user group provides water for both commercial and residential users, each of which were estimated to have a different water use coefficient. The distribution of water use between the two types of users was assumed to vary depending on whether the water user group had a city or a "county other" classification. For cities, the assumed distribution is dependent on population.

User Type	Water Use Coefficient ($ per acre-foot)
Residential	47,900
Commercial	148,779

Population	% Sales to Residential	% Sales to Commercial
< 5000	86.93%	13.07%
5,000-10,000	80.96%	19.14%
10,000-25,000	70.30%	29.70%
25,000-50,000	81.79%	18.21%
50,000-250,000	67.06%	32.94%
> 250,000	47.49%	52.51%
"County Other"	93.90%	6.10%

Water use coefficients for manufacturing were estimated separately for individual counties, based on the distribution of water use among different manufacturing industries

in the county and the average productivity of water in different types of manufacturing industries.

County	Water Use Coefficient ($ per acre-foot)
Collin	286,257
Cooke	228,816
Dallas	305,480
Denton	372,542
Ellis	294,839
Fannin	132,171
Grayson	294,371
Henderson	420,303
Kaufman	268,138
Navarro	342,196
Parker	408,847
Rockwall	346,133
Tarrant	353,244
Wise	434,608

Attachment N-2
Regional Economic Model Data, Multipliers and Base Year Variables
Region C Water Planning Region

The impact analysis was conducted using a regional interindustry (input/output) model for the region. These models were developed by TWDB using IMPLAN Professional™ Version 2.0 software, a proprietary product of MIG, Inc. of Stillwater, MN. The county economic data was provided in a dataset containing details for 586 economic sectors in Texas for 1995. TWDB collapsed these sectors into models of seven sectors, representing the major water use categories used in water development planning. The data are unique to the region.

For this region, the summary data in IMPLAN for the 1995 base year for major economic variables were as follows:

Population	4,523,727	
Employment	2,959,827	
Households	1,722,348	
Total Personal Income	$114.442 Billion	In 1999 dollars– $125.085 Billion

The tables on the following pages include 1) the base year Final Demands for the seven water use sectors and 2) the multipliers used to estimate the indirect impacts from economic changes due to water shortages by sector.

The Final Demand data were used to calculate the Water Use Coefficients by matching each sector's dollar totals to volumes of water use in the corresponding category for the calendar year–base year 1995. The result is an average of production associated with an acre-foot of water use. This measure produces an average value of water in terms that can be used to apply the IMPLAN multipliers. Regional indirect economic changes can then be estimated.

The multipliers are ratios that, when applied to the direct changes (estimated by the Water Use Coefficients in Attachment N-1), result in a total impact on the entire region. The impact totals represent the sum of successive changes among all economic sectors caused by the initial change in the affected sector. Multipliers are listed for Employment, Output (Gross Sales or Receipts), and Income (earned income from business and labor activity, not including transfer payments).

TWDB Table 9, Year 2000: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30094000 Blue Ridge	-1	1	0.1	1	1	0.0
C 30154000 Celina	-108	111	10.6	198	44	3.6
C 30227000 Dallas	-1,000	2,228	184.3	4,010	891	74.7
C 30726000 Prosper	-188	194	18.4	345	78	6.3
C 30327000 Gainesville	-1,502	2,307	201.7	4,153	923	76.2
C 30525000 Lindsay	-28	29	2.7	41	15	0.9
C 30615000 Muenster	-90	93	8.8	132	48	3.0
C 30923000 Valley View	-34	35	3.3	50	18	1.1
C 30996049 County-Other	-729	598	60.2	1,036	249	18.9
C 31001049 Manufacturing	-147	461	64.2	821	184	19.5
C 31003049 Mining	-89	14	2.9	20	7	0.7
C 31004049 Irrigation	-39	1	0.0	1	1	0.0
C 31005049 Livestock	-380	31	1.3	46	17	0.4
C 30003000 Addison	-859	1,320	115.4	2,376	528	43.6
C 30049000 Balch Springs	-327	502	43.9	894	201	16.6
C 30147000 Carrollton	-1,492	2,439	211.0	4,390	976	80.8
C 30151000 Cedar Hill	-701	833	76.5	1,483	333	27.1
C 30182000 Cockrell Hill	-85	88	8.3	125	46	2.8
C 30193000 Combine	-10	10	1.0	14	5	0.3
C 30201000 Coppell	-982	1,166	107.2	2,099	466	38.0
C 30227000 Dallas	-38,044	84,768	7,012.5	154,278	34,755	2,843.6
C 30234000 De Soto	-1,047	1,244	114.3	2,239	498	40.5
C 30256000 Duncanville	-953	1,132	104.0	2,038	453	36.9
C 30293000 Farmers Branch	-1,314	1,561	143.4	2,810	624	50.8
C 30344000 Glenn Heights	-83	101	9.2	180	40	3.3
C 30353000 Grand Prairie	-1,644	2,687	232.5	4,837	1,075	89.0
C 30429000 Hutchins	-90	93	8.8	132	48	3.0
C 30437000 Irving	-5,255	8,589	743.1	15,460	3,436	284.6

TWDB Table 9, Year 2000: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30509000 Lancaster	-527	810	70.8	1,442	324	26.7
C 30519000 Lewisville	-22	36	3.1	51	19	1.2
C 30663000 Ovilla	-10	10	1.0	14	5	0.3
C 30812000 Seagoville	-228	350	30.6	623	140	11.6
C 30975000 Wilmer	-136	140	13.3	249	56	4.5
C 31001057 Manufacturing	-4,542	19,029	2,649.7	34,633	7,802	805.8
C 31003057 Mining	-1,350	219	44.0	390	88	10.0
C 30147000 Carrollton	-1,298	2,121	183.5	3,818	848	70.3
C 30227000 Dallas	-674	1,502	124.2	2,704	601	50.4
C 30301000 Flower Mound	-612	727	66.8	1,294	291	23.7
C 30390000 Hebron	-200	206	19.6	367	82	6.7
C 30456000 Justin	-180	186	17.6	331	74	6.0
C 30481000 Krugerville	-77	79	7.5	112	41	2.6
C 30482000 Krum	-264	272	25.8	484	109	8.8
C 30519000 Lewisville	-2,330	3,808	329.5	6,854	1,523	126.2
C 30527000 Little Elm	-234	241	22.9	429	96	7.8
C 30695000 Pilot Point	-279	288	27.3	513	115	9.3
C 30891000 The Colony	-336	399	36.7	710	160	13.0
C 30151000 Cedar Hill	-1	1	0.1	1	1	0.0
C 30344000 Glenn Heights	-20	24	2.2	34	12	0.8
C 30353000 Grand Prairie	-1	2	0.1	3	1	0.1
C 30438000 Italy	-37	38	3.6	54	20	1.2
C 30573000 Maypearl	-69	71	6.8	101	37	2.3
C 30598000 Milford	-51	53	5.0	75	28	1.7
C 30647000 Oak Leaf	-22	23	2.2	33	12	0.7
C 30663000 Ovilla	-87	90	8.5	128	47	2.9
C 30671000 Palmer	-83	86	8.1	122	45	2.8
C 30686000 Pecan Hill	-3	3	0.3	4	2	0.1

TWDB Table 9, Year 2000: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30990000 Wortham	-267	275	26.1	490	110	8.9
C 30071000 Bells	-48	50	4.7	71	26	1.6
C 30187000 Collinsville	-52	54	5.1	77	28	1.7
C 30370000 Gunter	-61	63	6.0	89	33	2.0
C 30419000 Howe	-171	176	16.7	305	75	5.7
C 30548000 Luella	-65	67	6.4	95	35	2.2
C 30847000 Southmayd	-115	119	11.3	212	48	3.8
C 30902000 Tioga	-23	24	2.3	34	12	0.8
C 30904000 Tom Bean	-110	113	10.8	201	45	3.7
C 30925000 Van Alstyne	-115	119	11.3	212	48	3.8
C 30967000 Whitesboro	-525	542	51.4	958	218	17.5
C 30968000 Whitewright	-138	142	13.5	253	57	4.6
C 30996091 County-Other	-1,646	1,350	135.9	2,424	540	42.7
C 31001091 Manufacturing	-992	4,005	557.7	7,203	1,604	169.6
C 31003091 Mining	-632	103	20.6	147	53	4.7
C 30557000 Malakoff	-9	9	0.9	13	5	0.3
C 30193000 Combine	-33	34	3.2	48	18	1.1
C 30227000 Dallas	-1	2	0.2	3	1	0.1
C 31002129 Steam Electric Power	-7,800	1,932	411.2	3,478	773	114.5
C 31003129 Mining	-21	3	0.7	4	2	0.2
C 31004129 Irrigation	-397	10	0.3	14	5	0.1
C 30009000 Aledo	-17	18	1.7	26	9	0.6
C 30030000 Annetta	-18	19	1.8	27	10	0.6
C 30422000 Hudson Oaks	-39	40	3.8	57	21	1.3
C 30944000 Weatherford	-2,065	3,172	277.3	5,707	1,269	104.8
C 30973000 Willow Park	-36	37	3.5	53	19	1.2
C 30996184 County-Other	-888	729	73.3	1,296	291	23.0
C 31001184 Manufacturing	-21	118	16.4	210	47	5.0

TWDB Table 9, Year 2000: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 31003184 Mining	-1,539	250	50.1	444	100	11.4
C 30227000 Dallas	-2	4	0.4	6	2	0.1
C 30353000 Grand Prairie	-540	883	76.4	1,572	353	29.2
C 30465000 Kennedale	-1,018	1,238	113.2	2,228	495	40.4
C 30677000 Pantego	-400	413	39.1	735	165	13.3
C 30688000 Pelican Bay	-167	172	16.3	306	69	5.6
C 30019000 Alvord	-14	14	1.4	20	7	0.5
C 30044000 Aurora	-32	33	3.1	47	17	1.1
C 30103000 Boyd	-58	60	5.7	85	31	1.9
C 30635000 Newark	-44	45	4.3	64	23	1.5
C 30745000 Rhome	-33	34	3.2	48	18	1.1
Grand Total	-91,046	159,923	15,187.3	289,044	65,221	5,595.8

TWDB Table 9, Year 2010: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30012000 Allen	-3,421	5,591	483.8	10,176	2,292	185.3
C 30094000 Blue Ridge	-9	9	0.9	16	5	0.3
C 30154000 Celina	-757	920	84.1	1,656	359	30.0
C 30227000 Dallas	-1,708	3,806	314.8	6,927	1,560	127.7
C 30291000 Fairview	-175	181	17.1	326	71	5.8
C 30294000 Farmersville	-97	100	9.5	180	39	3.2
C 30319000 Frisco	-2,995	4,895	423.5	8,909	2,007	162.2
C 30334000 Garland	-1	2	0.1	4	1	0.1
C 30547000 Lucas	-139	143	13.6	257	56	4.6
C 30577000 Mckinney	-4,853	7,932	686.3	14,436	3,252	262.8
C 30584000 Melissa	-16	17	1.6	30	10	0.5
C 30619000 Murphy	-277	337	30.8	607	131	11.0
C 30631000 New Hope	-13	13	1.3	23	8	0.4
C 30679000 Parker	-291	354	32.3	637	138	11.5
C 30704000 Plano	-12,349	27,516	2,276.2	50,079	11,282	923.0
C 30724000 Princeton	-98	101	9.6	182	39	3.3
C 30726000 Prosper	-1,149	1,397	127.7	2,543	573	45.6
C 30747000 Richardson	-571	933	80.7	1,679	364	30.9
C 30779000 Royse City	-14	17	1.6	30	10	0.6
C 30784000 Sachse	-14	22	1.9	39	13	0.7
C 30991000 Wylie	-464	713	62.3	1,283	278	23.5
C 31001043 Manufacturing	-362	1,421	197.9	2,586	583	60.2
C 31002043 Steam Electric Power	-2,564	635	135.2	1,143	248	37.7
C 30327000 Gainesville	-1,649	2,533	221.5	4,610	1,039	83.7
C 30525000 Lindsay	-35	36	3.4	63	21	1.2
C 30615000 Muenster	-98	101	9.6	182	39	3.3
C 30923000 Valley View	-43	44	4.2	77	26	1.4
C 30996049 County-Other	-754	619	62.3	1,111	257	19.6

TWDB Table 9, Year 2010: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 31001049 Manufacturing	-201	631	87.8	1,136	246	26.7
C 31004049 Irrigation	-33	1	0.0	2	1	0.0
C 31005049 Livestock	-380	31	1.3	56	19	0.4
C 30003000 Addison	-1,775	2,727	238.4	4,963	1,118	90.1
C 30049000 Balch Springs	-697	1,071	93.6	1,949	439	35.4
C 30147000 Carrollton	-2,457	4,016	347.4	7,309	1,647	133.1
C 30151000 Cedar Hill	-1,856	2,205	202.5	4,013	904	71.8
C 30182000 Cockrell Hill	-143	148	14.0	266	58	4.8
C 30193000 Combine	-20	21	2.0	37	12	0.7
C 30201000 Coppell	-10,872	12,914	1,186.4	23,503	5,295	420.5
C 30227000 Dallas	-67,407	150,194	12,424.8	276,357	63,081	5,038.4
C 30234000 De Soto	-2,372	2,817	258.8	5,127	1,155	91.7
C 30256000 Duncanville	-1,815	2,156	198.1	3,924	884	70.2
C 30293000 Farmers Branch	-2,117	2,515	231.0	4,577	1,031	81.9
C 30334000 Garland	-5,430	8,875	767.8	16,153	3,639	294.1
C 30344000 Glenn Heights	-170	207	18.9	373	81	6.7
C 30353000 Grand Prairie	-2,630	4,299	371.9	7,824	1,763	142.4
C 30360000 Grapevine	-3	4	0.3	7	2	0.1
C 30429000 Hutchins	-199	205	19.5	369	80	6.6
C 30437000 Irving	-46,405	75,845	6,562.0	138,038	31,096	2,513.3
C 30509000 Lancaster	-990	1,176	108.0	2,140	482	38.3
C 30519000 Lewisville	-46	75	6.5	131	44	2.5
C 30592000 Mesquite	-3,747	6,124	529.9	11,146	2,511	202.9
C 30663000 Ovilla	-19	20	1.9	35	12	0.6
C 30747000 Richardson	-3,826	6,253	541.0	11,380	2,564	207.2
C 30777000 Rowlett	-1,334	2,180	188.6	3,968	894	72.2
C 30784000 Sachse	-483	742	64.9	1,336	289	24.5
C 30812000 Seagoville	-616	946	82.7	1,703	369	31.3

TWDB Table 9, Year 2010: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30871000 Sunnyvale	-252	306	28.0	551	119	10.0
C 30975000 Wilmer	-223	230	21.8	414	90	7.4
C 30996057 County-Other	-268	220	22.1	396	86	7.0
C 31001057 Manufacturing	-9,255	38,775	5,399.2	70,571	15,898	1,642.0
C 31002057 Steam Electric Power	-2,823	699	148.8	1,258	273	41.5
C 31003057 Mining	-1,859	302	60.5	544	118	13.8
C 30036000 Argyle	-301	366	33.5	659	143	11.9
C 30043000 Aubrey	-34	35	3.3	61	21	1.1
C 30058000 Bartonville	-217	224	21.2	403	87	7.2
C 30147000 Carrollton	-2,270	3,710	321.0	6,752	1,521	122.9
C 30202000 Copper Canyon	-135	139	13.2	250	54	4.5
C 30204000 Corinth	-780	1,198	104.8	2,180	491	39.6
C 30227000 Dallas	-1,254	2,794	231.1	5,085	1,146	93.7
C 30251000 Double Oak	-121	125	11.8	225	49	4.0
C 30301000 Flower Mound	-3,183	5,202	450.1	9,468	2,133	172.4
C 30319000 Frisco	-68	111	9.6	200	43	3.7
C 30390000 Hebron	-348	359	34.1	646	140	11.6
C 30399000 Hickory Creek	-113	117	11.1	211	46	3.8
C 30403000 Highland Village	-622	955	83.5	1,719	372	31.6
C 30456000 Justin	-322	332	31.5	598	129	10.7
C 30481000 Krugerville	-139	143	13.6	257	56	4.6
C 30482000 Krum	-433	447	42.4	805	174	14.4
C 30498000 Lake Dallas	-214	260	23.8	468	101	8.5
C 30519000 Lewisville	-6,263	10,236	885.6	18,630	4,197	339.2
C 30527000 Little Elm	-491	507	48.0	913	198	16.3
C 30648000 Oak Point	-68	70	6.7	123	41	2.3
C 30695000 Pilot Point	-528	545	51.7	981	213	17.6
C 30704000 Plano	-3	7	0.6	12	4	0.2

TWDB Table 9, Year 2010: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30758000 Roanoke	-17	18	1.7	32	11	0.6
C 30801000 Sanger	-451	693	60.6	1,247	270	22.9
C 30820000 Shady Shores	-70	72	6.8	126	42	2.3
C 30846000 Southlake	-314	373	34.3	671	145	12.1
C 30891000 The Colony	-1,023	1,215	111.6	2,211	498	39.6
C 30911000 Trophy Club	-130	158	14.5	284	62	5.2
C 30996061 Crossroads	-38	31	3.1	54	18	1.0
C 30996061 Lincoln Park	-6	5	0.5	9	3	0.2
C 30996061 Northlake	-57	47	4.7	82	28	1.5
C 30996061 Ponder	-162	133	13.4	239	52	4.2
C 31001061 Manufacturing	-160	817	113.8	1,471	319	34.6
C 31002061 Steam Electric Power	-4,000	991	210.9	1,784	386	58.7
C 30151000 Cedar Hill	-4	5	0.4	9	3	0.2
C 30344000 Glenn Heights	-40	49	4.4	86	29	1.6
C 30353000 Grand Prairie	-3	5	0.4	9	3	0.2
C 30438000 Italy	-157	162	15.4	292	63	5.2
C 30559000 Mansfield	-8	10	0.9	18	6	0.3
C 30573000 Maypearl	-73	75	7.1	131	44	2.4
C 30598000 Milford	-65	67	6.4	117	40	2.2
C 30647000 Oak Leaf	-40	41	3.9	72	24	1.3
C 30663000 Ovilla	-167	172	16.3	310	67	5.6
C 30671000 Palmer	-170	175	16.6	315	68	5.7
C 30686000 Pecan Hill	-9	9	0.9	16	5	0.3
C 31002070 Steam Electric Power	-15,000	3,715	790.8	6,761	1,523	220.3
C 30990000 Wortham	-274	283	26.8	509	110	9.1
C 31002081 Steam Electric Power	-8,796	2,179	463.7	3,966	893	129.2
C 30071000 Bells	-51	53	5.0	93	31	1.7
C 30187000 Collinsville	-55	57	5.4	100	34	1.8

TWDB Table 9, Year 2010: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30370000 Gunter	-68	70	6.7	123	41	2.3
C 30419000 Howe	-186	192	18.2	344	81	6.2
C 30548000 Luella	-67	69	6.6	121	41	2.2
C 30847000 Southmayd	-121	125	11.8	225	49	4.0
C 30902000 Tioga	-27	28	2.6	49	17	0.9
C 30904000 Tom Bean	-111	115	10.9	207	45	3.7
C 30925000 Van Alstyne	-266	274	26.0	493	107	8.8
C 30967000 Whitesboro	-559	577	54.7	1,038	228	18.6
C 30968000 Whitewright	-146	151	14.3	272	59	4.9
C 30996091 County-Other	-1,472	1,208	121.5	2,175	471	38.2
C 31001091 Manufacturing	-1,513	6,108	850.6	11,115	2,508	258.7
C 31003091 Mining	-543	88	17.7	154	52	4.0
C 31004091 Irrigation	-48	1	0.0	2	1	0.0
C 30557000 Malakoff	-28	29	2.7	51	17	0.9
C 30193000 Combine	-71	73	6.9	128	43	2.4
C 30210000 Crandall	-80	83	7.8	145	49	2.7
C 30227000 Dallas	-1	2	0.2	4	1	0.1
C 30304000 Forney	-312	479	41.9	862	187	15.8
C 30459000 Kaufman	-184	224	20.5	403	87	7.3
C 30646000 Oak Grove	-17	18	1.7	32	11	0.6
C 30996129 County-Other	-491	403	40.5	725	159	12.7
C 31001129 Manufacturing	-31	114	15.9	205	44	4.8
C 31002129 Steam Electric Power	-8,000	1,981	421.7	3,605	812	117.5
C 31003129 Mining	-31	5	1.0	9	3	0.2
C 31004129 Irrigation	-377	9	0.3	16	5	0.1
C 30009000 Aledo	-154	159	15.1	286	62	5.1
C 30030000 Annetta	-98	101	9.6	182	39	3.3
C 30046000 Azle	-20	31	2.7	54	18	1.0

TWDB Table 9, Year 2010: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30110000 Briar	-6	7	0.7	12	4	0.2
C 30422000 Hudson Oaks	-286	295	28.0	531	115	9.5
C 30744000 Reno	-12	12	1.2	21	7	0.4
C 30853000 Springtown	-28	29	2.7	51	17	0.9
C 30944000 Weatherford	-3,161	3,755	344.9	6,831	1,536	122.2
C 30973000 Willow Park	-308	318	30.1	572	124	10.2
C 30996184 County-Other	-2,523	2,070	208.3	3,754	835	65.4
C 31001184 Manufacturing	-51	286	39.8	515	111	12.1
C 31002184 Steam Electric Power	-5,796	1,436	305.6	2,614	589	85.1
C 31003184 Mining	-1,738	282	56.6	508	110	12.9
C 30227000 Dallas	-4	9	0.7	16	5	0.3
C 30388000 Heath	-151	184	16.8	331	72	6.0
C 30766000 Rockwall	-1,269	1,507	138.5	2,743	618	49.1
C 30777000 Rowlett	-347	567	49.1	1,021	221	18.8
C 30779000 Royse City	-218	265	24.2	477	103	8.6
C 30991000 Wylie	-2	3	0.3	5	2	0.1
C 31001199 Manufacturing	-1	5	0.7	9	3	0.2
C 31002199 Steam Electric Power	-5,600	1,387	295.2	2,524	569	82.2
C 30037000 Arlington	-3,534	7,874	651.4	14,331	3,228	264.2
C 30046000 Azle	-105	161	14.1	290	63	5.3
C 30067000 Bedford	-482	788	68.2	1,418	307	26.1
C 30093000 Blue Mound	-15	15	1.5	26	9	0.5
C 30110000 Briar	-35	43	3.9	75	25	1.4
C 30131000 Burleson	-20	24	2.2	42	14	0.8
C 30186000 Colleyville	-428	508	46.7	914	198	16.6
C 30218000 Crowley	-55	67	6.1	117	40	2.2
C 30228000 Dalworthington Gard.	-40	41	3.9	72	24	1.3
C 30267000 Edgecliff	-28	29	2.7	51	17	0.9

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C 30285000 Euless	-1,363	2,228	192.7	4,055	913	73.8
C 30287000 Everman	-33	40	3.7	70	24	1.3
C 30303000 Forest Hill	-81	124	10.9	223	48	4.1
C 30311000 Fort Worth	-6,074	13,534	1,119.6	24,632	5,549	454.0
C 30353000 Grand Prairie	-1,161	1,898	164.2	3,454	778	62.9
C 30360000 Grapevine	-410	487	44.7	877	190	15.9
C 30375000 Haltom City	-361	429	39.4	772	167	14.0
C 30384000 Haslet	-12	12	1.2	21	7	0.4
C 30428000 Hurst	-330	392	36.0	706	153	12.8
C 30461000 Keller	-6,051	7,187	660.3	13,080	2,947	234.0
C 30465000 Kennedale	-1,699	2,610	228.2	4,750	1,070	86.2
C 30501000 Lake Worth Village	-37	45	4.1	79	27	1.5
C 30559000 Mansfield	-323	384	35.2	691	150	12.5
C 30642000 North Richland Hills	-552	902	78.1	1,624	352	29.9
C 30677000 Pantego	-404	417	39.5	751	163	13.4
C 30688000 Pelican Bay	-212	219	20.7	394	85	7.1
C 30748000 Richland Hills	-65	100	8.7	175	59	3.3
C 30756000 River Oaks	-57	69	6.3	121	41	2.3
C 30785000 Saginaw	-136	209	18.3	376	82	6.9
C 30802000 Sansom Park Village	-28	29	2.7	51	17	0.9
C 30846000 Southlake	-7,459	8,860	814.0	16,125	3,633	288.5
C 30942000 Watauga	-202	310	27.1	558	121	10.3
C 30959000 Westworth Village	-18	19	1.8	33	11	0.6
C 30964000 White Settlement	-110	169	14.8	304	66	5.6
C 31001220 Manufacturing	-1,869	9,055	1,260.8	16,480	3,713	383.4
C 31002220 Steam Electric Power	-401	99	21.1	173	58	5.9
C 30019000 Alvord	-11	11	1.1	19	6	0.4
C 30044000 Aurora	-49	51	4.8	89	30	1.6

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C 30103000 Boyd	-140	144	13.7	259	56	4.7
C 30110000 Briar	-9	11	1.0	19	6	0.4
C 30113000 Bridgeport	-41	42	4.0	74	25	1.4
C 30163000 Chico	-1	1	0.1	2	1	0.0
C 30235000 Decatur	-59	72	6.6	126	42	2.3
C 30635000 Newark	-80	83	7.8	145	49	2.7
C 30745000 Rhome	-66	68	6.5	119	40	2.2
C 30996249 County-Other	-702	576	58.0	1,037	225	18.2
C 31002249 Steam Electric Power	-11,200	2,774	590.4	5,049	1,137	164.5
Grand Total	-339,957	517,151	49,519.2	943,416	213,381	18,121.8

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C 30012000 Allen	-9,355	15,290	1,322.9	28,287	6,422	506.7
C 30094000 Blue Ridge	-17	18	1.7	29	7	0.6
C 30154000 Celina	-2,263	3,476	303.9	6,396	1,460	114.8
C 30227000 Dallas	-1,207	2,689	222.5	4,948	1,129	90.2
C 30291000 Fairview	-405	418	39.6	757	171	13.5
C 30294000 Farmersville	-263	320	29.2	579	131	10.4
C 30319000 Frisco	-10,121	16,542	1,431.2	30,603	6,948	548.1
C 30334000 Garland	-1	2	0.1	3	1	0.1
C 30547000 Lucas	-313	381	34.8	690	156	12.4
C 30577000 Mckinney	-14,676	23,987	2,075.3	44,376	10,075	794.8
C 30584000 Melissa	-38	39	3.7	63	15	1.3
C 30619000 Murphy	-833	1,280	111.9	2,355	538	42.3
C 30631000 New Hope	-28	29	2.7	47	11	0.9
C 30679000 Parker	-1,092	1,677	146.7	3,086	704	55.4
C 30704000 Plano	-25,439	56,682	4,689.0	104,862	23,806	1,901.5
C 30724000 Princeton	-287	349	31.9	632	143	11.4
C 30726000 Prosper	-2,179	3,347	292.6	6,158	1,406	110.6
C 30747000 Richardson	-1,296	2,118	183.3	3,897	890	70.2
C 30779000 Royse City	-38	58	5.1	93	23	1.9
C 30784000 Sachse	-35	54	4.7	87	21	1.8
C 30991000 Wylie	-1,377	1,636	150.3	3,010	687	53.3
C 30996043 County-Other	-6,725	5,517	555.3	10,143	2,315	174.4
C 31001043 Manufacturing	-854	3,353	466.9	6,170	1,408	142.0
C 31002043 Steam Electric Power	-3,219	797	169.7	1,443	327	47.3
C 30327000 Gainesville	-1,828	2,808	245.5	5,167	1,179	92.8
C 30525000 Lindsay	-48	50	4.7	81	20	1.6
C 30615000 Muenster	-107	110	10.5	199	45	3.6
C 30923000 Valley View	-56	58	5.5	93	23	1.9

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C 30996049 County-Other	-650	533	53.7	950	217	16.9
C 31001049 Manufacturing	-253	794	110.6	1,437	326	33.6
C 31004049 Irrigation	-27	1	0.0	2	0	0.0
C 31005049 Livestock	-380	31	1.3	51	13	0.4
C 30003000 Addison	-10,783	16,564	1,448.2	30,643	6,957	547.2
C 30049000 Balch Springs	-3,580	5,499	480.8	10,118	2,310	181.7
C 30147000 Carrollton	-14,317	23,400	2,024.5	43,290	9,828	775.4
C 30151000 Cedar Hill	-11,195	18,297	1,583.1	33,849	7,685	606.3
C 30182000 Cockrell Hill	-688	710	67.3	1,285	291	22.9
C 30193000 Combine	-13	13	1.3	21	5	0.4
C 30201000 Coppell	-11,147	13,241	1,216.4	24,496	5,561	431.1
C 30227000 Dallas	-7,828	17,442	1,442.9	32,268	7,326	585.1
C 30234000 De Soto	-13,391	21,887	1,893.6	40,491	9,193	725.2
C 30256000 Duncanville	-9,111	10,822	994.2	20,021	4,545	352.4
C 30293000 Farmers Branch	-12,952	15,384	1,413.4	28,460	6,461	500.9
C 30334000 Garland	-11,522	18,832	1,629.3	34,839	7,909	624.0
C 30344000 Glenn Heights	-114	139	12.7	252	57	4.5
C 30353000 Grand Prairie	-15,293	24,995	2,162.5	46,241	10,498	828.3
C 30360000 Grapevine	-5	8	0.7	13	3	0.3
C 30429000 Hutchins	-1,153	1,190	112.8	2,190	500	38.4
C 30437000 Irving	-47,945	78,362	6,779.8	144,970	32,912	2,596.7
C 30509000 Lancaster	-5,094	6,051	555.9	11,134	2,541	197.0
C 30519000 Lewisville	-348	569	49.2	1,030	233	18.8
C 30592000 Mesquite	-9,162	14,975	1,295.6	27,704	6,290	496.2
C 30663000 Ovilla	-97	100	9.5	181	41	3.2
C 30747000 Richardson	-8,419	13,760	1,190.5	25,456	5,779	456.0
C 30777000 Rowlett	-3,326	5,436	470.3	10,002	2,283	180.1
C 30784000 Sachse	-1,153	1,771	154.9	3,259	744	58.5

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C 30812000 Seagoville	-3,433	5,273	461.1	9,702	2,215	174.2
C 30871000 Sunnyvale	-680	827	75.6	1,497	339	27.0
C 30975000 Wilmer	-269	278	26.3	503	114	8.9
C 30996057 County-Other	-23,387	19,187	1,931.1	35,496	8,059	606.6
C 31001057 Manufacturing	-7,257	30,404	4,233.6	56,247	12,770	1,287.5
C 31002057 Steam Electric Power	-9,511	2,356	501.4	4,335	990	139.7
C 31003057 Mining	-2,607	424	84.9	767	174	19.4
C 30036000 Argyle	-366	562	49.2	1,017	230	18.6
C 30043000 Aubrey	-39	40	3.8	64	16	1.3
C 30058000 Bartonville	-195	237	21.7	429	97	7.7
C 30147000 Carrollton	-13,682	22,362	1,934.7	41,370	9,392	741.0
C 30202000 Copper Canyon	-139	143	13.6	259	59	4.6
C 30204000 Corinth	-707	840	77.2	1,520	344	27.3
C 30227000 Dallas	-161	359	29.7	650	147	12.0
C 30240000 Denton	-9,475	15,486	1,339.8	28,649	6,504	513.2
C 30251000 Double Oak	-90	93	8.8	150	36	3.0
C 30301000 Flower Mound	-7,713	12,606	1,090.7	23,321	5,295	417.7
C 30319000 Frisco	-163	266	23.0	481	109	8.8
C 30390000 Hebron	-613	632	60.0	1,144	259	20.4
C 30399000 Hickory Creek	-125	152	13.9	275	62	5.0
C 30403000 Highland Village	-367	564	49.3	1,021	231	18.6
C 30456000 Justin	-745	769	72.9	1,392	315	24.8
C 30481000 Krugerville	-166	171	16.2	310	70	5.5
C 30482000 Krum	-610	629	59.7	1,138	258	20.3
C 30498000 Lake Dallas	-169	205	18.8	371	84	6.7
C 30519000 Lewisville	-35,720	58,382	5,051.1	108,007	24,520	1,934.6
C 30527000 Little Elm	-937	1,139	104.2	2,096	478	37.2
C 30648000 Oak Point	-114	139	12.7	252	57	4.5

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C 30695000 Pilot Point	-753	916	83.7	1,658	376	29.9
C 30704000 Plano	-9	20	1.7	32	8	0.7
C 30758000 Roanoke	-462	477	45.2	863	196	15.4
C 30801000 Sanger	-943	1,449	126.6	2,666	609	47.9
C 30820000 Shady Shores	-64	66	6.3	106	26	2.1
C 30846000 Southlake	-372	442	40.6	800	181	14.4
C 30891000 The Colony	-8,806	14,393	1,245.2	26,627	6,045	476.9
C 30911000 Trophy Club	-3,379	5,191	453.8	9,551	2,180	171.5
C 30996061 Crossroads	-75	62	6.2	100	24	1.9
C 30996061 Lincoln Park	-9	7	0.7	11	3	0.2
C 30996061 Northlake	-2,201	1,806	181.7	3,323	759	57.1
C 30996061 Ponder	-544	446	44.9	807	183	14.1
C 31001061 Manufacturing	-151	772	107.4	1,397	317	32.7
C 31002061 Steam Electric Power	-4,000	991	210.9	1,794	406	58.7
C 30151000 Cedar Hill	-30	49	4.2	79	19	1.6
C 30296000 Ferris	-10	10	1.0	16	4	0.3
C 30344000 Glenn Heights	-26	32	2.9	52	12	1.0
C 30353000 Grand Prairie	-32	52	4.5	84	20	1.7
C 30438000 Italy	-285	294	27.9	532	121	9.5
C 30559000 Mansfield	-9	11	1.0	18	4	0.3
C 30573000 Maypearl	-81	84	7.9	135	33	2.7
C 30596000 Midlothian	-109	167	14.6	302	68	5.5
C 30598000 Milford	-75	77	7.3	124	30	2.5
C 30647000 Oak Leaf	-27	28	2.6	45	11	0.9
C 30663000 Ovilla	-882	910	86.3	1,647	373	29.3
C 30671000 Palmer	-242	250	23.7	453	103	8.0
C 30686000 Pecan Hill	-9	9	0.9	14	4	0.3
C 30739000 Red Oak	-32	39	3.6	63	15	1.3

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C 31002070 Steam Electric Power	-15,000	3,715	790.8	6,836	1,560	220.3
C 30990000 Wortham	-292	301	28.6	545	123	9.7
C 31002081 Steam Electric Power	-10,796	2,674	569.1	4,920	1,123	158.5
C 30071000 Bells	-68	70	6.7	113	27	2.3
C 30187000 Collinsville	-59	61	5.8	98	24	2.0
C 30370000 Gunter	-103	106	10.1	192	43	3.4
C 30419000 Howe	-180	186	17.6	331	75	6.0
C 30548000 Luella	-69	71	6.8	114	28	2.3
C 30719000 Pottsboro	-51	53	5.0	85	21	1.7
C 30847000 Southmayd	-125	129	12.2	233	53	4.2
C 30902000 Tioga	-33	34	3.2	55	13	1.1
C 30904000 Tom Bean	-118	122	11.5	221	50	3.9
C 30925000 Van Alstyne	-496	512	48.5	927	210	16.5
C 30967000 Whitesboro	-498	514	48.7	926	210	16.6
C 30968000 Whitewright	-153	158	15.0	286	65	5.1
C 30996091 County-Other	-1,436	1,178	118.6	2,132	483	37.2
C 31001091 Manufacturing	-1,873	7,562	1,052.9	13,909	3,176	320.2
C 31003091 Mining	-520	85	16.9	135	33	3.9
C 31004091 Irrigation	-128	3	0.1	5	1	0.0
C 30557000 Malakoff	-42	43	4.1	69	17	1.4
C 30193000 Combine	-46	47	4.5	76	18	1.5
C 30210000 Crandall	-194	200	19.0	362	82	6.5
C 30227000 Dallas	-1	2	0.2	3	1	0.1
C 30304000 Forney	-1,017	1,562	136.6	2,874	656	51.6
C 30459000 Kaufman	-459	705	61.6	1,276	289	23.3
C 30646000 Oak Grove	-37	38	3.6	61	15	1.2
C 30996129 County-Other	-1,385	1,136	114.4	2,086	476	35.9
C 31001129 Manufacturing	-95	349	48.6	632	143	14.8

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C 31002129 Steam Electric Power	-8,000	1,981	421.7	3,645	832	117.5
C 31003129 Mining	-46	7	1.5	11	3	0.3
C 31004129 Irrigation	-357	9	0.3	14	4	0.1
C 31003175 Mining	-9	1	0.3	2	0	0.1
C 30009000 Aledo	-369	381	36.1	690	156	12.3
C 30030000 Annetta	-226	233	22.1	422	96	7.5
C 30046000 Azle	-23	35	3.1	56	14	1.2
C 30110000 Briar	-7	9	0.8	14	4	0.3
C 30422000 Hudson Oaks	-870	1,058	96.7	1,947	444	34.5
C 30744000 Reno	-21	22	2.1	35	9	0.7
C 30853000 Springtown	-36	37	3.5	60	14	1.2
C 30944000 Weatherford	-4,888	5,806	533.4	10,675	2,435	189.0
C 30973000 Willow Park	-738	897	82.0	1,624	368	29.3
C 30996184 County-Other	-2,604	2,136	215.0	3,909	890	67.5
C 31001184 Manufacturing	-104	583	81.2	1,055	239	24.7
C 31002184 Steam Electric Power	-5,809	1,439	306.2	2,648	604	85.3
C 31003184 Mining	-2,025	329	65.9	595	135	15.0
C 30227000 Dallas	-1	2	0.2	3	1	0.1
C 30388000 Heath	-433	527	48.1	954	216	17.2
C 30766000 Rockwall	-3,936	4,675	429.5	8,602	1,964	152.2
C 30777000 Rowlett	-1,004	1,641	142.0	3,019	689	54.4
C 30779000 Royse City	-626	962	84.1	1,741	394	31.8
C 30991000 Wylie	-3	4	0.3	6	2	0.1
C 31001199 Manufacturing	-2	9	1.3	14	4	0.4
C 31002199 Steam Electric Power	-6,000	1,486	316.3	2,734	624	88.1
C 30037000 Arlington	-2,683	5,978	494.5	11,000	2,511	200.5
C 30046000 Azle	-132	203	17.7	367	83	6.7
C 30067000 Bedford	-340	556	48.1	1,006	228	18.4

TWDB Table 9, Year 2020: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30093000 Blue Mound	-12	12	1.2	19	5	0.4
C 30110000 Briar	-42	51	4.7	82	20	1.7
C 30131000 Burleson	-487	578	53.1	1,046	237	18.8
C 30186000 Colleyville	-383	455	41.8	824	187	14.8
C 30218000 Crowley	-1,387	2,131	186.3	3,921	895	70.4
C 30228000 Dalworthington Gard.	-913	942	89.3	1,705	386	30.4
C 30267000 Edgecliff	-551	568	53.9	1,028	233	18.3
C 30285000 Euless	-327	534	46.2	967	219	17.7
C 30287000 Everman	-631	767	70.1	1,388	314	25.0
C 30303000 Forest Hill	-1,825	2,803	245.1	5,158	1,177	92.6
C 30311000 Fort Worth	-5,786	12,892	1,066.5	23,850	5,415	432.5
C 30353000 Grand Prairie	-8,587	14,035	1,214.3	25,965	5,895	465.1
C 30360000 Grapevine	-324	530	45.8	959	217	17.5
C 30375000 Haltom City	-6,737	8,002	735.2	14,724	3,361	260.5
C 30384000 Haslet	-326	336	31.9	608	138	10.8
C 30428000 Hurst	-6,897	8,192	752.6	15,073	3,441	266.7
C 30461000 Keller	-7,136	8,476	778.7	15,596	3,560	276.0
C 30465000 Kennedale	-2,024	3,109	271.8	5,721	1,306	102.7
C 30501000 Lake Worth Village	-796	968	88.5	1,752	397	31.6
C 30559000 Mansfield	-303	360	33.1	652	148	11.7
C 30642000 North Richland Hills	-7,213	11,789	1,020.0	21,810	4,951	390.6
C 30677000 Pantego	-423	436	41.4	789	179	14.1
C 30688000 Pelican Bay	-272	281	26.6	509	115	9.0
C 30748000 Richland Hills	-1,551	2,383	208.3	4,385	1,001	78.7
C 30756000 River Oaks	-49	60	5.4	97	23	1.9
C 30785000 Saginaw	-2,970	4,562	398.9	8,394	1,916	150.7
C 30802000 Sansom Park Village	-512	528	50.1	956	216	17.0
C 30846000 Southlake	-8,932	10,610	974.7	19,629	4,456	345.4

TWDB Table 9, Year 2020: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30942000 Watauga	-4,336	5,150	473.2	9,476	2,163	167.7
C 30959000 Westworth Village	-312	322	30.5	583	132	10.4
C 30964000 White Settlement	-1,993	3,061	267.7	5,632	1,286	101.1
C 30996220 County-Other	-7,034	5,771	580.8	10,619	2,424	182.4
C 31001220 Manufacturing	-1,977	9,578	1,333.7	17,624	4,023	405.6
C 31002220 Steam Electric Power	-411	102	21.7	185	42	6.0
C 30019000 Alvord	-12	12	1.2	19	5	0.4
C 30044000 Aurora	-66	68	6.5	109	27	2.2
C 30103000 Boyd	-207	214	20.3	387	88	6.9
C 30110000 Briar	-10	12	1.1	19	5	0.4
C 30113000 Bridgeport	-40	49	4.4	79	19	1.6
C 30163000 Chico	-20	21	2.0	34	8	0.7
C 30235000 Decatur	-53	64	5.9	103	25	2.1
C 30635000 Newark	-105	108	10.3	195	44	3.5
C 30745000 Rhome	-75	77	7.3	124	30	2.5
C 30996249 County-Other	-1,761	1,445	145.4	2,659	607	45.7
C 31002249 Steam Electric Power	-11,200	2,774	590.4	5,104	1,165	164.5
Grand Total	-600,677	835,309	78,457.1	1,541,577	350,402	28,555.8

TWDB Table 9, Year 2030: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30012000 Allen	-13,487	22,043	1,907.2	41,000	9,478	730.4
C 30094000 Blue Ridge	-22	23	2.2	47	12	0.7
C 30154000 Celina	-5,384	8,270	723.1	15,465	3,556	273.2
C 30291000 Fairview	-599	728	66.6	1,361	306	23.8
C 30294000 Farmersville	-399	485	44.4	907	204	15.8
C 30319000 Frisco	-20,088	32,832	2,840.6	61,068	14,118	1,087.9
C 30334000 Garland	-2	3	0.3	6	2	0.1
C 30547000 Lucas	-502	610	55.8	1,141	256	19.9
C 30577000 Mckinney	-24,944	40,769	3,527.3	75,830	17,531	1,350.9
C 30584000 Melissa	-58	60	5.7	123	31	1.9
C 30619000 Murphy	-1,270	1,951	170.6	3,648	839	64.5
C 30631000 New Hope	-36	37	3.5	76	19	1.2
C 30679000 Parker	-2,356	3,619	316.4	6,768	1,556	119.6
C 30704000 Plano	-32,828	73,146	6,051.0	136,052	31,453	2,453.8
C 30724000 Princeton	-428	520	47.6	972	218	17.0
C 30726000 Prosper	-3,216	4,940	431.9	9,238	2,124	163.2
C 30747000 Richardson	-1,841	3,009	260.3	5,627	1,294	99.7
C 30779000 Royse City	-60	92	8.1	189	47	3.0
C 30784000 Sachse	-50	77	6.7	158	39	2.5
C 30991000 Wylie	-2,630	3,124	287.0	5,842	1,343	101.7
C 30996043 County-Other	-11,741	9,633	969.5	18,014	4,137	304.5
C 31001043 Manufacturing	-1,238	4,860	676.8	9,088	2,090	205.8
C 31002043 Steam Electric Power	-3,610	894	190.3	1,672	375	53.0
C 30327000 Gainesville	-2,229	3,424	299.4	6,403	1,472	113.1
C 30525000 Lindsay	-74	76	7.2	156	39	2.5
C 30615000 Muenster	-151	156	14.8	292	66	5.0
C 30923000 Valley View	-78	80	7.6	164	41	2.6
C 30996049 County-Other	-769	631	63.5	1,195	272	19.9

TWDB Table 9, Year 2030: Social and Economic Impacts of Not Meeting Needs by Region

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C 31001049 Manufacturing	-339	1,064	148.1	1,990	458	45.0
C 31004049 Irrigation	-44	1	0.0	2	1	0.0
C 31005049 Livestock	-499	41	1.7	84	21	0.5
C 30003000 Addison	-11,795	18,119	1,584.1	33,701	7,791	598.6
C 30049000 Balch Springs	-3,597	5,525	483.1	10,332	2,376	182.6
C 30147000 Carrollton	-14,304	23,379	2,022.7	43,485	10,053	774.7
C 30151000 Cedar Hill	-14,060	22,980	1,988.2	42,743	9,881	761.5
C 30182000 Cockrell Hill	-672	693	65.8	1,296	291	22.4
C 30201000 Coppell	-11,191	13,293	1,221.2	24,725	5,716	432.8
C 30234000 De Soto	-15,047	24,593	2,127.8	45,743	10,575	814.9
C 30256000 Duncanville	-9,361	11,119	1,021.5	20,681	4,781	362.0
C 30293000 Farmers Branch	-13,432	15,955	1,465.8	29,676	6,861	519.5
C 30334000 Garland	-15,157	24,773	2,143.3	46,078	10,652	820.9
C 30344000 Glenn Heights	-1,101	1,691	147.9	3,162	727	55.9
C 30353000 Grand Prairie	-14,791	24,175	2,091.6	44,966	10,395	801.1
C 30360000 Grapevine	-6	10	0.8	21	5	0.3
C 30429000 Hutchins	-1,428	1,473	139.7	2,755	633	47.5
C 30437000 Irving	-60,359	98,652	8,535.2	183,493	42,420	3,269.0
C 30509000 Lancaster	-5,156	6,124	562.7	11,452	2,633	199.4
C 30519000 Lewisville	-415	678	58.7	1,268	285	22.5
C 30592000 Mesquite	-13,641	22,295	1,928.9	41,469	9,587	738.8
C 30663000 Ovilla	-108	111	10.6	208	47	3.6
C 30747000 Richardson	-11,320	18,502	1,600.7	34,414	7,956	613.1
C 30777000 Rowlett	-4,965	8,115	702.1	15,175	3,489	268.9
C 30784000 Sachse	-1,726	2,651	231.8	4,957	1,140	87.6
C 30812000 Seagoville	-3,820	5,868	513.0	10,973	2,523	193.9
C 30871000 Sunnyvale	-930	1,131	103.4	2,115	486	36.9
C 30975000 Wilmer	-272	281	26.6	525	118	9.0

TWDB Table 9, Year 2030: Social and Economic Impacts of Not Meeting Needs by Region

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C 30996057 County-Other	-50,227	41,208	4,147.3	76,647	17,719	1,302.7
C 31001057 Manufacturing	-2,866	12,007	1,672.0	22,333	5,163	508.5
C 31002057 Steam Electric Power	-8,427	2,087	444.3	3,903	897	123.8
C 31003057 Mining	-3,361	546	109.5	1,021	229	25.0
C 30036000 Argyle	-3,833	5,888	514.8	11,011	2,532	194.5
C 30043000 Aubrey	-531	548	52.0	1,025	230	17.7
C 30058000 Bartonville	-2,170	2,639	241.2	4,935	1,135	86.0
C 30147000 Carrollton	-13,976	22,843	1,976.3	42,488	9,822	756.9
C 30202000 Copper Canyon	-1,209	1,470	134.4	2,749	632	47.9
C 30204000 Corinth	-6,715	7,976	732.8	14,915	3,430	259.7
C 30240000 Denton	-18,210	29,763	2,575.0	55,359	12,798	986.2
C 30251000 Double Oak	-913	942	89.3	1,762	396	30.4
C 30301000 Flower Mound	-27,113	44,314	3,834.0	82,424	19,055	1,468.4
C 30319000 Frisco	-258	422	36.5	789	177	14.0
C 30390000 Hebron	-669	690	65.5	1,290	290	22.3
C 30399000 Hickory Creek	-1,243	1,511	138.2	2,826	650	49.3
C 30403000 Highland Village	-3,370	5,177	452.6	9,681	2,226	171.0
C 30456000 Justin	-1,265	1,538	140.6	2,876	661	50.2
C 30481000 Krugerville	-258	266	25.2	497	112	8.6
C 30482000 Krum	-867	1,054	96.4	1,971	453	34.4
C 30498000 Lake Dallas	-1,543	2,370	207.2	4,432	1,019	78.3
C 30519000 Lewisville	-40,071	65,493	5,666.4	121,817	28,162	2,170.2
C 30527000 Little Elm	-1,387	1,687	154.2	3,155	725	55.0
C 30648000 Oak Point	-1,453	1,767	161.5	3,304	760	57.6
C 30695000 Pilot Point	-1,128	1,372	125.4	2,566	590	44.7
C 30704000 Plano	-16	36	2.9	74	18	1.2
C 30758000 Roanoke	-630	766	70.0	1,432	322	25.0
C 30801000 Sanger	-1,591	2,444	213.7	4,570	1,051	80.7

TWDB Table 9, Year 2030: Social and Economic Impacts of Not Meeting Needs by Region

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C 30820000 Shady Shores	-650	671	63.6	1,255	282	21.6
C 30846000 Southlake	-473	562	51.6	1,051	236	18.3
C 30891000 The Colony	-9,912	16,200	1,401.6	30,132	6,966	536.8
C 30911000 Trophy Club	-4,442	6,823	596.6	12,759	2,934	225.4
C 30996061 Crossroads	-1,138	934	94.0	1,747	392	29.5
C 30996061 Lincoln Park	-184	151	15.2	282	63	4.8
C 30996061 Northlake	-3,882	3,185	320.5	5,956	1,370	100.7
C 30996061 Ponder	-978	802	80.8	1,500	337	25.4
C 30996061 County-Other	-27,772	22,785	2,293.2	42,380	9,798	720.3
C 31001061 Manufacturing	-1,120	5,722	796.8	10,700	2,460	242.3
C 31002061 Steam Electric Power	-4,000	991	210.9	1,853	416	58.7
C 30151000 Cedar Hill	-39	64	5.5	131	33	2.1
C 30296000 Ferris	-34	35	3.3	72	18	1.1
C 30344000 Glenn Heights	-258	396	34.6	741	166	13.1
C 30353000 Grand Prairie	-31	51	4.4	105	26	1.7
C 30438000 Italy	-435	449	42.6	840	189	14.5
C 30559000 Mansfield	-29	47	4.1	96	24	1.6
C 30573000 Maypearl	-81	84	7.9	172	43	2.7
C 30596000 Midlothian	-320	492	43.0	920	207	16.2
C 30598000 Milford	-88	91	8.6	187	46	2.9
C 30647000 Oak Leaf	-254	262	24.9	490	110	8.4
C 30663000 Ovilla	-971	1,002	95.0	1,874	431	32.3
C 30671000 Palmer	-313	323	30.6	604	136	10.4
C 30686000 Pecan Hill	-30	31	2.9	64	16	1.0
C 30739000 Red Oak	-100	122	11.1	228	51	4.0
C 30996070 County-Other	-240	197	19.8	368	83	6.2
C 31001070 Manufacturing	-18	73	10.1	150	37	3.1
C 31002070 Steam Electric Power	-15,000	3,715	790.8	6,947	1,597	220.3

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C 30996074 County-Other	-12	10	1.0	21	5	0.3
C 30289000 Fairfield	-50	52	4.9	107	27	1.7
C 30990000 Wortham	-312	322	30.5	602	135	10.4
C 31002081 Steam Electric Power	-10,796	2,674	569.1	5,000	1,150	158.5
C 30071000 Bells	-82	85	8.0	174	43	2.7
C 30187000 Collinsville	-73	75	7.1	154	38	2.4
C 30370000 Gunter	-124	128	12.1	239	54	4.1
C 30419000 Howe	-273	282	26.7	537	124	9.1
C 30548000 Luella	-71	73	6.9	150	37	2.4
C 30719000 Pottsboro	-101	104	9.9	194	44	3.4
C 30847000 Southmayd	-129	133	12.6	249	56	4.3
C 30902000 Tioga	-45	46	4.4	94	23	1.5
C 30904000 Tom Bean	-125	129	12.2	241	54	4.2
C 30925000 Van Alstyne	-685	833	76.1	1,558	350	27.2
C 30967000 Whitesboro	-543	560	53.1	1,052	237	18.1
C 30968000 Whitewright	-160	165	15.7	309	69	5.3
C 30996091 County-Other	-1,186	973	97.9	1,820	408	30.8
C 31001091 Manufacturing	-2,337	9,435	1,313.8	17,648	4,059	399.5
C 31003091 Mining	-542	88	17.7	180	45	4.0
C 31004091 Irrigation	-360	9	0.3	18	5	0.1
C 30557000 Malakoff	-48	50	4.7	103	26	1.6
C 30210000 Crandall	-304	370	33.8	692	155	12.1
C 30304000 Forney	-1,835	2,819	246.4	5,272	1,212	93.1
C 30459000 Kaufman	-675	1,037	90.7	1,939	446	34.3
C 30646000 Oak Grove	-50	52	4.9	107	27	1.7
C 30996129 County-Other	-2,113	1,734	174.5	3,249	749	54.8
C 31001129 Manufacturing	-136	500	69.6	935	210	21.2
C 31002129 Steam Electric Power	-10,000	2,477	527.2	4,632	1,065	146.9

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C 31003129 Mining	-61	10	2.0	21	5	0.5
C 31004129 Irrigation	-338	8	0.2	16	4	0.1
C 31003175 Mining	-20	3	0.7	6	2	0.1
C 30009000 Aledo	-611	630	59.8	1,178	265	20.3
C 30030000 Annetta	-369	381	36.1	712	160	12.3
C 30046000 Azle	-50	77	6.7	158	39	2.5
C 30110000 Briar	-15	18	1.7	37	9	0.6
C 30422000 Hudson Oaks	-1,645	2,527	220.9	4,725	1,087	83.5
C 30744000 Reno	-50	52	4.9	107	27	1.7
C 30853000 Springtown	-80	83	7.8	170	42	2.7
C 30944000 Weatherford	-7,207	11,779	1,019.1	21,915	5,059	390.3
C 30973000 Willow Park	-1,219	1,482	135.5	2,771	637	48.3
C 30996184 County-Other	-3,822	3,136	315.6	5,864	1,349	99.1
C 31001184 Manufacturing	-165	925	128.8	1,729	389	39.2
C 31002184 Steam Electric Power	-9,823	2,433	517.9	4,550	1,046	144.3
C 31003184 Mining	-2,322	377	75.6	706	159	17.2
C 30388000 Heath	-754	1,158	101.3	2,165	498	38.3
C 30766000 Rockwall	-6,630	10,836	937.5	20,155	4,659	359.1
C 30777000 Rowlett	-1,789	2,924	253.0	5,468	1,257	96.9
C 30779000 Royse City	-1,760	2,704	236.4	5,056	1,163	89.3
C 30991000 Wylie	-5	6	0.5	12	3	0.2
C 31001199 Manufacturing	-2	9	1.3	18	5	0.4
C 31002199 Steam Electric Power	-6,000	1,486	316.3	2,779	639	88.1
C 30037000 Arlington	-7,465	16,633	1,376.0	30,937	7,152	558.0
C 30046000 Azle	-277	426	37.2	797	179	14.1
C 30067000 Bedford	-897	1,466	126.8	2,741	630	48.6
C 30093000 Blue Mound	-32	33	3.1	68	17	1.1
C 30110000 Briar	-81	98	9.0	201	50	3.2

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C 30131000 Burleson	-522	620	57.0	1,159	260	20.2
C 30186000 Colleyville	-1,068	1,269	116.5	2,373	546	41.3
C 30218000 Crowley	-1,598	2,455	214.6	4,591	1,056	81.1
C 30228000 Dalworthington Gard.	-974	1,005	95.3	1,879	432	32.4
C 30267000 Edgecliff	-541	558	52.9	1,043	234	18.0
C 30285000 Euless	-860	1,406	121.6	2,629	605	46.6
C 30287000 Everman	-602	732	66.9	1,369	307	23.9
C 30303000 Forest Hill	-1,907	2,929	256.1	5,477	1,259	96.8
C 30311000 Fort Worth	-13,464	30,000	2,481.7	55,800	12,900	1,006.4
C 30353000 Grand Prairie	-8,439	13,793	1,193.3	25,655	5,931	457.0
C 30360000 Grapevine	-909	1,486	128.5	2,779	639	49.2
C 30375000 Haltom City	-6,700	7,958	731.1	14,881	3,422	259.1
C 30384000 Haslet	-410	423	40.1	791	178	13.6
C 30428000 Hurst	-6,641	7,888	724.7	14,751	3,392	256.8
C 30461000 Keller	-7,656	9,094	835.5	17,006	3,910	296.1
C 30465000 Kennedale	-2,293	3,522	308.0	6,586	1,514	116.4
C 30501000 Lake Worth Village	-822	1,000	91.4	1,870	420	32.6
C 30559000 Mansfield	-968	1,582	136.9	2,958	680	52.4
C 30642000 North Richland Hills	-8,654	14,144	1,223.7	26,308	6,082	468.7
C 30677000 Pantego	-411	424	40.2	793	178	13.7
C 30688000 Pelican Bay	-323	333	31.6	623	140	10.7
C 30748000 Richland Hills	-1,723	2,647	231.4	4,950	1,138	87.4
C 30756000 River Oaks	-92	112	10.2	209	47	3.6
C 30785000 Saginaw	-3,062	4,704	411.2	8,796	2,023	155.4
C 30802000 Sansom Park Village	-502	518	49.1	969	218	16.7
C 30846000 Southlake	-10,722	12,736	1,170.0	23,689	5,476	414.7
C 30942000 Watauga	-4,543	5,396	495.8	10,091	2,320	175.7
C 30959000 Westworth Village	-300	310	29.4	580	130	10.0

TWDB Table 9, Year 2030: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30964000 White Settlement	-1,939	2,979	260.4	5,571	1,281	98.4
C 30996220 County-Other	-11,149	9,147	920.6	17,105	3,933	289.2
C 31001220 Manufacturing	-6,016	29,145	4,058.3	54,210	12,532	1,234.2
C 31002220 Steam Electric Power	-960	238	50.6	445	100	14.1
C 30019000 Alvord	-36	37	3.5	76	19	1.2
C 30044000 Aurora	-86	89	8.4	182	45	2.9
C 30103000 Boyd	-264	272	25.8	509	114	8.8
C 30110000 Briar	-20	24	2.2	49	12	0.8
C 30113000 Bridgeport	-102	124	11.3	232	52	4.0
C 30163000 Chico	-23	24	2.3	49	12	0.8
C 30235000 Decatur	-133	162	14.8	303	68	5.3
C 30635000 Newark	-127	131	12.4	245	55	4.2
C 30745000 Rhome	-100	103	9.8	193	43	3.3
C 30996249 County-Other	-3,140	2,576	259.3	4,817	1,108	81.4
C 31002249 Steam Electric Power	-11,200	2,774	590.4	5,187	1,193	164.5
Grand Total	-836,375	1,158,251	107,994.2	2,157,563	497,928	39,300.6

TWDB Table 9, Year 2040: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30012000 Allen	-16,183	26,450	2,288.4	49,462	11,374	876.5
C 30094000 Blue Ridge	-23	24	2.3	48	13	0.8
C 30154000 Celina	-7,237	8,596	789.7	15,989	3,696	279.9
C 30291000 Fairview	-775	942	86.1	1,762	405	30.7
C 30294000 Farmersville	-526	640	58.5	1,197	275	20.9
C 30319000 Frisco	-32,793	53,598	4,637.2	100,228	23,047	1,776.0
C 30334000 Garland	-2	3	0.3	6	2	0.1
C 30547000 Lucas	-669	813	74.4	1,520	350	26.5
C 30577000 Mckinney	-35,858	58,607	5,070.6	109,595	25,201	1,942.0
C 30584000 Melissa	-68	70	6.7	141	38	2.3
C 30619000 Murphy	-1,664	2,556	223.5	4,754	1,099	84.4
C 30631000 New Hope	-44	45	4.3	91	24	1.5
C 30679000 Parker	-4,028	4,784	439.6	8,898	2,057	155.8
C 30704000 Plano	-38,558	85,914	7,107.2	160,659	36,943	2,882.1
C 30724000 Princeton	-545	663	60.6	1,240	285	21.6
C 30726000 Prosper	-4,260	6,544	572.1	12,172	2,814	216.2
C 30747000 Richardson	-2,330	3,808	329.5	7,083	1,637	126.2
C 30779000 Royse City	-81	96	8.8	194	52	3.1
C 30784000 Sachse	-69	106	9.3	198	46	3.5
C 30991000 Wylie	-4,252	6,950	601.3	12,927	2,989	230.3
C 30996043 County-Other	-17,091	14,022	1,411.2	26,221	6,029	443.3
C 31001043 Manufacturing	-1,668	6,548	911.8	12,179	2,816	277.3
C 31002043 Steam Electric Power	-6,910	1,711	364.3	3,182	736	101.5
C 30327000 Gainesville	-2,472	3,797	332.0	7,062	1,633	125.5
C 30525000 Lindsay	-82	85	8.0	172	46	2.7
C 30615000 Muenster	-159	164	15.6	307	71	5.3
C 30923000 Valley View	-94	97	9.2	196	52	3.1
C 30996049 County-Other	-729	598	60.2	1,131	266	18.9

TWDB Table 9, Year 2040: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 31001049 Manufacturing	-402	1,262	175.7	2,347	543	53.4
C 31004049 Irrigation	-39	1	0.0	2	1	0.0
C 31005049 Livestock	-499	41	1.7	83	22	0.5
C 30003000 Addison	-12,907	19,827	1,733.4	37,076	8,526	655.0
C 30049000 Balch Springs	-3,459	5,313	464.6	9,882	2,285	175.5
C 30147000 Carrollton	-13,777	22,517	1,948.2	42,107	9,682	746.1
C 30151000 Cedar Hill	-17,409	28,454	2,461.8	53,209	12,235	942.9
C 30182000 Cockrell Hill	-647	668	63.3	1,249	287	21.5
C 30201000 Coppell	-11,229	13,338	1,225.4	24,942	5,735	434.3
C 30234000 De Soto	-16,477	26,930	2,330.0	50,359	11,580	892.4
C 30256000 Duncanville	-9,361	11,119	1,021.5	20,793	4,781	362.0
C 30293000 Farmers Branch	-14,547	17,279	1,587.5	32,312	7,430	562.6
C 30334000 Garland	-17,935	29,313	2,536.1	54,815	12,605	971.3
C 30344000 Glenn Heights	-1,237	1,900	166.1	3,534	817	62.8
C 30353000 Grand Prairie	-14,578	23,827	2,061.4	44,556	10,246	789.5
C 30360000 Grapevine	-9	15	1.3	30	8	0.5
C 30429000 Hutchins	-1,746	2,123	194.1	3,949	913	69.2
C 30437000 Irving	-65,202	145,281	12,018.3	274,581	63,924	4,873.6
C 30509000 Lancaster	-4,976	5,911	543.0	10,994	2,542	192.4
C 30519000 Lewisville	-471	770	66.6	1,440	331	25.5
C 30592000 Mesquite	-17,954	29,344	2,538.8	54,873	12,618	972.4
C 30663000 Ovilla	-116	141	12.9	264	61	4.6
C 30747000 Richardson	-13,615	22,253	1,925.3	41,613	9,569	737.4
C 30777000 Rowlett	-6,241	10,200	882.5	19,074	4,386	338.0
C 30784000 Sachse	-2,243	3,446	301.2	6,410	1,482	113.8
C 30812000 Seagoville	-4,106	6,307	551.4	11,731	2,712	208.4
C 30871000 Sunnyvale	-1,112	1,352	123.6	2,515	581	44.1
C 30975000 Wilmer	-255	263	25.0	492	113	8.5

TWDB Table 9, Year 2040: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30996057 County-Other	-90,245	74,040	7,451.6	138,455	31,837	2,340.6
C 31001057 Manufacturing	-5,205	21,807	3,036.5	40,779	9,377	923.4
C 31002057 Steam Electric Power	-8,454	2,094	445.7	3,895	900	124.2
C 31003057 Mining	-4,121	670	134.2	1,253	288	30.6
C 30036000 Argyle	-4,060	6,237	545.3	11,601	2,682	206.0
C 30043000 Aubrey	-679	701	66.4	1,311	301	22.6
C 30058000 Bartonville	-2,562	3,936	344.1	7,321	1,692	130.0
C 30147000 Carrollton	-13,775	22,514	1,947.9	42,101	9,681	746.0
C 30202000 Copper Canyon	-1,433	1,742	159.3	3,240	749	56.8
C 30204000 Corinth	-6,407	7,610	699.2	14,155	3,272	247.8
C 30240000 Denton	-26,510	43,329	3,748.7	81,025	18,631	1,435.8
C 30251000 Double Oak	-924	953	90.4	1,782	410	30.7
C 30301000 Flower Mound	-29,968	48,980	4,237.7	91,593	21,061	1,623.0
C 30319000 Frisco	-328	536	46.4	1,002	230	17.8
C 30390000 Hebron	-668	689	65.4	1,288	296	22.2
C 30399000 Hickory Creek	-1,388	1,688	154.3	3,140	726	55.0
C 30403000 Highland Village	-3,253	4,997	436.9	9,294	2,149	165.1
C 30456000 Justin	-2,084	3,201	279.9	5,954	1,376	105.8
C 30481000 Krugerville	-318	328	31.1	613	141	10.6
C 30482000 Krum	-1,024	1,245	113.8	2,316	535	40.6
C 30498000 Lake Dallas	-1,659	2,548	222.8	4,739	1,096	84.2
C 30519000 Lewisville	-41,160	67,273	5,820.3	125,801	28,927	2,229.2
C 30527000 Little Elm	-1,714	2,633	230.2	4,897	1,132	87.0
C 30648000 Oak Point	-1,654	2,541	222.1	4,726	1,093	83.9
C 30695000 Pilot Point	-1,239	1,507	137.7	2,803	648	49.1
C 30704000 Plano	-20	45	3.7	91	24	1.5
C 30758000 Roanoke	-751	913	83.5	1,707	393	29.8
C 30801000 Sanger	-1,970	3,026	264.6	5,628	1,301	100.0

TWDB Table 9, Year 2040: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30820000 Shady Shores	-732	755	71.6	1,412	325	24.3
C 30846000 Southlake	-588	961	83.1	1,797	413	31.8
C 30891000 The Colony	-10,694	17,479	1,512.2	32,686	7,516	579.2
C 30911000 Trophy Club	-5,289	8,125	710.3	15,113	3,494	268.4
C 30996061 Crossroads	-1,661	1,363	137.2	2,535	586	43.1
C 30996061 Lincoln Park	-300	246	24.8	460	106	7.8
C 30996061 Northlake	-5,674	4,655	468.5	8,658	2,002	147.2
C 30996061 Ponder	-1,204	988	99.4	1,848	425	31.2
C 30996061 County-Other	-32,878	26,974	2,714.8	50,441	11,599	852.7
C 31001061 Manufacturing	-1,366	6,979	971.8	12,981	3,001	295.5
C 31002061 Steam Electric Power	-5,500	1,362	290.0	2,533	586	80.8
C 30151000 Cedar Hill	-42	69	5.9	139	37	2.3
C 30284000 Ennis	-395	607	53.0	1,135	261	20.0
C 30296000 Ferris	-45	46	4.4	93	25	1.5
C 30344000 Glenn Heights	-268	412	36.0	770	177	13.6
C 30353000 Grand Prairie	-30	49	4.2	99	26	1.6
C 30438000 Italy	-454	468	44.4	875	201	15.1
C 30559000 Mansfield	-56	92	7.9	186	50	3.0
C 30573000 Maypearl	-81	84	7.9	170	45	2.7
C 30596000 Midlothian	-445	684	59.8	1,279	294	22.6
C 30598000 Milford	-87	90	8.5	182	49	2.9
C 30647000 Oak Leaf	-278	287	27.2	537	123	9.2
C 30663000 Ovilla	-978	1,189	108.7	2,212	511	38.8
C 30671000 Palmer	-350	361	34.2	675	155	11.6
C 30686000 Pecan Hill	-37	38	3.6	77	21	1.2
C 30739000 Red Oak	-142	173	15.8	324	74	5.6
C 30943000 Waxahachie	-230	273	25.1	511	117	8.9
C 30996070 County-Other	-508	417	41.9	780	179	13.2

TWDB Table 9, Year 2040: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 31001070 Manufacturing	-172	696	96.8	1,302	299	29.5
C 31002070 Steam Electric Power	-18,000	4,458	948.9	8,292	1,917	264.3
C 30996074 County-Other	-13	11	1.1	22	6	0.3
C 30289000 Fairfield	-69	84	7.7	170	45	2.7
C 30990000 Wortham	-320	330	31.3	617	142	10.6
C 31002081 Steam Electric Power	-14,988	3,712	790.1	6,904	1,596	220.1
C 30071000 Bells	-93	96	9.1	194	52	3.1
C 30187000 Collinsville	-73	75	7.1	152	41	2.4
C 30370000 Gunter	-141	145	13.8	271	62	4.7
C 30419000 Howe	-271	280	26.5	531	126	9.0
C 30548000 Luella	-73	75	7.1	152	41	2.4
C 30719000 Pottsboro	-148	153	14.5	286	66	4.9
C 30847000 Southmayd	-136	140	13.3	262	60	4.5
C 30902000 Tioga	-51	53	5.0	107	29	1.7
C 30904000 Tom Bean	-127	131	12.4	245	56	4.2
C 30925000 Van Alstyne	-886	1,077	98.5	2,003	463	35.1
C 30967000 Whitesboro	-578	596	56.6	1,119	259	19.2
C 30968000 Whitewright	-165	170	16.1	318	73	5.5
C 30996091 County-Other	-863	708	71.3	1,324	304	22.4
C 31001091 Manufacturing	-2,953	11,922	1,660.1	22,299	5,129	504.8
C 31003091 Mining	-552	90	18.0	182	49	4.1
C 31004091 Irrigation	-448	11	0.3	22	6	0.1
C 30557000 Malakoff	-46	47	4.5	95	25	1.5
C 30210000 Crandall	-395	480	43.9	898	206	15.7
C 30304000 Forney	-2,850	3,385	311.0	6,296	1,456	110.2
C 30459000 Kaufman	-850	1,306	114.2	2,429	562	43.1
C 30646000 Oak Grove	-59	61	5.8	123	33	2.0
C 30996129 County-Other	-2,707	2,221	223.5	4,139	962	70.2

TWDB Table 9, Year 2040: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 31001129 Manufacturing	-176	647	90.1	1,210	278	27.4
C 31002129 Steam Electric Power	-10,000	2,477	527.2	4,607	1,065	146.9
C 31003129 Mining	-76	12	2.5	24	6	0.6
C 31004129 Irrigation	-319	8	0.2	16	4	0.1
C 31003175 Mining	-31	5	1.0	10	3	0.2
C 30009000 Aledo	-732	890	81.4	1,664	383	29.0
C 30030000 Annetta	-549	566	53.7	1,058	243	18.3
C 30046000 Azle	-82	126	11.0	236	54	4.2
C 30110000 Briar	-26	32	2.9	65	17	1.0
C 30422000 Hudson Oaks	-1,645	2,527	220.9	4,700	1,087	83.5
C 30744000 Reno	-89	92	8.7	186	50	3.0
C 30853000 Springtown	-139	169	15.5	316	73	5.5
C 30944000 Weatherford	-10,319	16,866	1,459.2	31,540	7,253	558.9
C 30973000 Willow Park	-1,810	2,780	243.1	5,171	1,195	91.9
C 30996184 County-Other	-2,899	2,378	239.4	4,432	1,023	75.2
C 31001184 Manufacturing	-227	1,273	177.2	2,381	548	53.9
C 31002184 Steam Electric Power	-11,837	2,932	624.0	5,454	1,261	173.8
C 31003184 Mining	-2,645	430	86.1	803	185	19.6
C 30388000 Heath	-1,138	1,748	152.8	3,251	752	57.8
C 30766000 Rockwall	-9,875	16,140	1,396.4	30,182	6,940	534.8
C 30777000 Rowlett	-2,794	4,567	395.1	8,495	1,964	151.3
C 30779000 Royse City	-2,439	2,897	266.2	5,388	1,246	94.3
C 30991000 Wylie	-6	10	0.8	20	5	0.3
C 30996199 County-Other	-53	43	4.4	87	23	1.4
C 31001199 Manufacturing	-2	9	1.3	18	5	0.4
C 31002199 Steam Electric Power	-6,000	1,486	316.3	2,764	639	88.1
C 30037000 Arlington	-12,009	26,758	2,213.6	50,037	11,506	897.6
C 30046000 Azle	-466	716	62.6	1,339	308	23.6

TWDB Table 9, Year 2040: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30067000 Bedford	-1,406	2,298	198.8	4,274	988	76.1
C 30093000 Blue Mound	-52	54	5.1	109	29	1.7
C 30110000 Briar	-133	162	14.8	303	70	5.3
C 30131000 Burleson	-525	624	57.3	1,167	268	20.3
C 30186000 Colleyville	-1,743	2,070	190.2	3,850	890	67.4
C 30218000 Crowley	-1,802	2,768	242.0	5,148	1,190	91.5
C 30228000 Dalworthington Gard.	-1,068	1,102	104.5	2,050	474	35.5
C 30267000 Edgecliff	-528	545	51.7	1,019	234	17.6
C 30285000 Euless	-1,356	2,216	191.7	4,122	953	73.4
C 30287000 Everman	-573	697	63.7	1,303	300	22.7
C 30303000 Forest Hill	-1,836	2,820	246.6	5,245	1,213	93.2
C 30311000 Fort Worth	-22,503	50,140	4,147.9	93,762	21,560	1,682.0
C 30353000 Grand Prairie	-8,461	13,829	1,196.5	25,860	5,946	458.2
C 30360000 Grapevine	-1,489	2,434	210.6	4,527	1,047	80.6
C 30375000 Haltom City	-6,584	7,821	718.5	14,547	3,363	254.6
C 30384000 Haslet	-432	446	42.3	834	192	14.4
C 30428000 Hurst	-6,579	7,815	717.9	14,536	3,360	254.4
C 30461000 Keller	-7,746	9,201	845.3	17,114	3,956	299.6
C 30465000 Kennedale	-2,826	4,341	379.5	8,074	1,867	143.4
C 30501000 Lake Worth Village	-824	1,002	91.6	1,864	431	32.7
C 30559000 Mansfield	-2,021	3,303	285.8	6,144	1,420	109.5
C 30642000 North Richland Hills	-10,247	16,748	1,449.0	31,319	7,202	555.0
C 30677000 Pantego	-401	414	39.2	774	178	13.3
C 30688000 Pelican Bay	-358	369	35.0	690	159	11.9
C 30748000 Richland Hills	-2,074	3,186	278.5	5,926	1,370	105.3
C 30756000 River Oaks	-144	175	16.0	327	75	5.7
C 30785000 Saginaw	-3,284	5,045	441.0	9,384	2,169	166.7
C 30802000 Sansom Park Village	-488	503	47.7	941	216	16.2

TWDB Table 9, Year 2040: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30846000 Southlake	-12,827	20,965	1,813.8	39,205	9,015	694.7
C 30942000 Watauga	-4,757	5,650	519.1	10,509	2,430	184.0
C 30959000 Westworth Village	-288	297	28.2	555	128	9.6
C 30964000 White Settlement	-1,903	2,923	255.6	5,437	1,257	96.6
C 30996220 County-Other	-20,402	16,738	1,684.6	31,300	7,197	529.1
C 31001220 Manufacturing	-11,050	53,533	7,454.2	100,107	23,019	2,266.9
C 31002220 Steam Electric Power	-1,807	448	95.3	838	193	26.5
C 30019000 Alvord	-42	43	4.1	87	23	1.4
C 30044000 Aurora	-81	84	7.9	170	45	2.7
C 30103000 Boyd	-247	255	24.2	477	110	8.2
C 30110000 Briar	-32	39	3.6	79	21	1.3
C 30113000 Bridgeport	-178	216	19.8	404	93	7.1
C 30163000 Chico	-27	28	2.6	57	15	0.9
C 30235000 Decatur	-212	258	23.6	482	111	8.4
C 30635000 Newark	-142	147	13.9	275	63	4.7
C 30745000 Rhome	-116	120	11.4	224	52	3.9
C 30996249 County-Other	-3,993	3,276	329.7	6,093	1,409	103.6
C 31002249 Steam Electric Power	-11,200	2,774	590.4	5,160	1,193	164.5
Grand Total	-1,038,801	1,491,451	139,488.3	2,789,744	643,032	50,815.0

TWDB Table 9, Year 2050: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30012000 Allen	-18,020	29,452	2,548.2	55,075	12,664	975.9
C 30094000 Blue Ridge	-24	25	2.3	43	8	0.8
C 30154000 Celina	-8,297	9,855	905.4	18,330	4,238	320.9
C 30227000 Dallas	-127	283	23.4	521	119	9.5
C 30291000 Fairview	-973	1,183	108.2	2,200	509	38.6
C 30294000 Farmersville	-643	782	71.5	1,439	328	25.5
C 30319000 Frisco	-45,157	100,617	8,323.6	189,160	44,271	3,375.3
C 30334000 Garland	-4	7	0.6	12	2	0.2
C 30547000 Lucas	-829	1,008	92.2	1,875	433	32.9
C 30577000 Mckinney	-46,021	102,542	8,482.8	192,779	45,118	3,439.9
C 30584000 Melissa	-76	78	7.4	134	26	2.5
C 30619000 Murphy	-2,014	3,094	270.5	5,755	1,330	102.2
C 30631000 New Hope	-50	52	4.9	89	17	1.7
C 30679000 Parker	-5,746	6,825	627.0	12,695	2,935	222.2
C 30704000 Plano	-42,371	94,410	7,810.0	176,547	40,596	3,167.1
C 30724000 Princeton	-625	760	69.5	1,398	319	24.8
C 30726000 Prosper	-5,349	6,354	583.7	11,818	2,732	206.9
C 30747000 Richardson	-2,761	4,513	390.4	8,394	1,941	149.5
C 30779000 Royse City	-103	122	11.2	224	51	4.0
C 30784000 Sachse	-87	103	9.5	190	43	3.4
C 30991000 Wylie	-5,839	9,543	825.7	17,750	4,103	316.2
C 30996043 County-Other	-17,456	14,321	1,441.4	26,757	6,151	452.7
C 31001043 Manufacturing	-2,069	8,123	1,131.1	15,109	3,493	344.0
C 31002043 Steam Electric Power	-7,102	1,759	374.4	3,272	756	104.3
C 30327000 Gainesville	-2,715	4,171	364.6	7,758	1,794	137.8
C 30525000 Lindsay	-88	91	8.6	157	30	2.9
C 30615000 Muenster	-172	177	16.8	326	74	5.7
C 30923000 Valley View	-113	117	11.1	215	49	3.8

TWDB Table 9, Year 2050: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30996049 County-Other	-690	566	57.0	1,032	231	17.9
C 31001049 Manufacturing	-464	1,456	202.8	2,708	626	61.7
C 31004049 Irrigation	-33	1	0.0	2	0	0.0
C 31005049 Livestock	-499	41	1.7	71	14	0.5
C 30003000 Addison	-13,650	20,968	1,833.2	39,210	9,016	692.7
C 30049000 Balch Springs	-3,459	5,313	464.6	9,882	2,285	175.5
C 30147000 Carrollton	-12,896	21,077	1,823.6	39,414	9,063	698.4
C 30151000 Cedar Hill	-17,706	28,939	2,503.8	54,116	12,444	958.9
C 30182000 Cockrell Hill	-647	668	63.3	1,229	281	21.5
C 30193000 Combine	-2	2	0.2	3	1	0.1
C 30201000 Coppell	-11,513	13,675	1,256.4	25,572	5,880	445.2
C 30227000 Dallas	-3,440	7,665	634.1	14,257	3,296	257.1
C 30234000 De Soto	-18,039	29,483	2,550.9	55,133	12,678	977.0
C 30256000 Duncanville	-9,361	11,119	1,021.5	20,793	4,781	362.0
C 30293000 Farmers Branch	-15,803	18,771	1,724.5	35,102	8,072	611.2
C 30334000 Garland	-19,708	32,211	2,786.9	60,235	13,851	1,067.4
C 30344000 Glenn Heights	-1,386	2,129	186.1	3,960	915	70.3
C 30353000 Grand Prairie	-14,229	23,256	2,012.1	43,489	10,000	770.6
C 30360000 Grapevine	-10	16	1.4	28	5	0.5
C 30429000 Hutchins	-2,129	2,589	236.7	4,816	1,113	84.4
C 30437000 Irving	-70,026	156,029	12,907.5	293,335	68,653	5,234.2
C 30509000 Lancaster	-4,797	5,698	523.5	10,598	2,450	185.5
C 30519000 Lewisville	-534	873	75.5	1,606	367	28.9
C 30592000 Mesquite	-19,371	31,660	2,739.2	59,204	13,614	1,049.1
C 30663000 Ovilla	-128	156	14.2	287	66	5.1
C 30747000 Richardson	-15,312	25,026	2,165.2	46,799	10,761	829.3
C 30777000 Rowlett	-7,466	12,203	1,055.8	22,820	5,247	404.4
C 30784000 Sachse	-2,633	3,128	287.3	5,818	1,345	101.8

TWDB Table 9, Year 2050: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30812000 Seagoville	-4,280	5,084	467.1	9,456	2,186	165.5
C 30871000 Sunnyvale	-1,233	1,499	137.1	2,788	645	48.9
C 30975000 Wilmer	-255	263	25.0	484	110	8.5
C 30996057 County-Other	-119,173	97,773	9,840.2	182,836	42,042	3,090.8
C 31001057 Manufacturing	-7,175	30,060	4,185.7	56,212	12,926	1,272.9
C 31002057 Steam Electric Power	-17,978	4,453	947.8	8,283	1,915	264.0
C 31003057 Mining	-4,981	809	162.2	1,489	340	37.0
C 30036000 Argyle	-3,985	6,121	535.2	11,385	2,632	202.2
C 30043000 Aubrey	-1,229	1,494	136.6	2,779	642	48.7
C 30058000 Bartonville	-2,681	4,118	360.1	7,659	1,771	136.1
C 30147000 Carrollton	-13,199	21,573	1,866.4	40,342	9,276	714.8
C 30202000 Copper Canyon	-1,501	1,825	166.9	3,395	785	59.5
C 30204000 Corinth	-6,429	7,636	701.6	14,203	3,283	248.6
C 30227000 Dallas	-91	203	16.8	374	85	6.8
C 30240000 Denton	-36,670	81,707	6,759.2	152,792	35,134	2,740.9
C 30251000 Double Oak	-933	963	91.3	1,772	404	31.0
C 30301000 Flower Mound	-31,448	51,399	4,447.0	96,116	22,102	1,703.2
C 30319000 Frisco	-387	862	71.3	1,586	362	28.9
C 30390000 Hebron	-780	805	76.3	1,481	338	25.9
C 30399000 Hickory Creek	-1,539	1,871	171.1	3,480	805	61.0
C 30403000 Highland Village	-3,353	5,151	450.3	9,581	2,215	170.2
C 30456000 Justin	-2,497	3,836	335.4	7,135	1,649	126.7
C 30481000 Krugerville	-362	373	35.4	686	157	12.0
C 30482000 Krum	-1,167	1,419	129.7	2,639	610	46.3
C 30498000 Lake Dallas	-1,656	2,544	222.4	4,732	1,094	84.0
C 30519000 Lewisville	-42,254	69,061	5,975.0	129,144	29,696	2,288.4
C 30527000 Little Elm	-1,835	2,819	246.4	5,243	1,212	93.1
C 30648000 Oak Point	-1,830	2,811	245.8	5,228	1,209	92.9

TWDB Table 9, Year 2050: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30695000 Pilot Point	-1,465	2,250	196.8	4,185	968	74.3
C 30704000 Plano	-27	60	5.0	103	20	2.0
C 30758000 Roanoke	-893	1,086	99.3	2,020	467	35.4
C 30801000 Sanger	-2,406	3,696	323.1	6,875	1,589	122.1
C 30820000 Shady Shores	-717	740	70.2	1,362	311	23.8
C 30846000 Southlake	-745	1,218	105.3	2,265	524	40.3
C 30891000 The Colony	-10,441	17,065	1,476.4	31,912	7,338	565.5
C 30911000 Trophy Club	-6,288	9,659	844.5	17,966	4,153	319.1
C 30996061 Crossroads	-2,964	2,432	244.7	4,524	1,046	76.9
C 30996061 Lincoln Park	-384	315	31.7	580	132	10.0
C 30996061 Northlake	-7,354	6,033	607.2	11,221	2,594	190.7
C 30996061 Ponder	-1,337	1,097	110.4	2,040	472	34.7
C 30996061 County-Other	-37,323	30,621	3,081.8	57,261	13,167	968.0
C 31001061 Manufacturing	-1,647	8,415	1,171.8	15,652	3,618	356.3
C 31002061 Steam Electric Power	-5,500	1,362	290.0	2,533	586	80.8
C 31003061 Mining	-16	3	0.5	5	1	0.1
C 30151000 Cedar Hill	-47	77	6.6	132	25	2.5
C 30284000 Ennis	-876	1,346	117.6	2,504	579	44.5
C 30296000 Ferris	-54	56	5.3	96	18	1.8
C 30344000 Glenn Heights	-278	427	37.3	786	179	14.1
C 30353000 Grand Prairie	-29	47	4.1	81	16	1.6
C 30438000 Italy	-454	468	44.4	861	197	15.1
C 30559000 Mansfield	-88	144	12.4	265	60	4.8
C 30573000 Maypearl	-93	96	9.1	165	32	3.1
C 30596000 Midlothian	-535	822	71.9	1,512	345	27.2
C 30598000 Milford	-89	92	8.7	158	30	3.0
C 30647000 Oak Leaf	-302	312	29.5	574	131	10.0
C 30663000 Ovilla	-1,010	1,228	112.3	2,284	528	40.0

TWDB Table 9, Year 2050: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30671000 Palmer	-390	402	38.2	740	169	13.0
C 30686000 Pecan Hill	-44	45	4.3	77	15	1.5
C 30739000 Red Oak	-182	280	24.4	515	118	9.2
C 30943000 Waxahachie	-655	778	71.5	1,432	327	25.3
C 30996070 County-Other	-740	607	61.1	1,117	255	19.2
C 31001070 Manufacturing	-400	1,617	225.2	3,008	695	68.5
C 31002070 Steam Electric Power	-18,000	4,458	948.9	8,292	1,917	264.3
C 30289000 Fairfield	-89	108	9.9	199	45	3.5
C 30990000 Wortham	-331	342	32.4	629	144	11.0
C 31002081 Steam Electric Power	-14,988	3,712	790.1	6,904	1,596	220.1
C 30071000 Bells	-105	108	10.3	199	45	3.5
C 30187000 Collinsville	-73	75	7.1	129	25	2.4
C 30370000 Gunter	-158	163	15.5	300	68	5.3
C 30419000 Howe	-268	277	26.2	504	112	8.9
C 30548000 Luella	-76	78	7.4	134	26	2.5
C 30719000 Pottsboro	-198	204	19.4	375	86	6.6
C 30847000 Southmayd	-143	148	14.0	272	62	4.8
C 30902000 Tioga	-57	59	5.6	101	19	1.9
C 30904000 Tom Bean	-134	138	13.1	254	58	4.5
C 30925000 Van Alstyne	-1,132	1,376	125.8	2,559	592	44.9
C 30967000 Whitesboro	-613	632	60.0	1,162	264	20.4
C 30968000 Whitewright	-170	175	16.6	322	74	5.7
C 30996091 County-Other	-152	125	12.6	215	41	3.9
C 31001091 Manufacturing	-3,803	15,354	2,137.9	28,705	6,599	650.2
C 31003091 Mining	-570	93	18.6	159	30	4.2
C 31004091 Irrigation	-542	14	0.4	24	5	0.1
C 30557000 Malakoff	-58	60	5.7	103	20	1.9
C 30193000 Combine	-5	5	0.5	9	2	0.2

TWDB Table 9, Year 2050: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30210000 Crandall	-477	580	53.0	1,067	244	18.9
C 30227000 Dallas	-1	2	0.2	3	1	0.1
C 30304000 Forney	-3,894	4,625	424.9	8,603	1,989	150.6
C 30459000 Kaufman	-985	1,513	132.3	2,814	651	50.0
C 30646000 Oak Grove	-64	66	6.3	114	22	2.1
C 30996129 County-Other	-3,034	2,489	250.5	4,619	1,063	78.7
C 31001129 Manufacturing	-213	783	109.1	1,441	329	33.2
C 31002129 Steam Electric Power	-15,000	3,715	790.8	6,910	1,597	220.3
C 31003129 Mining	-93	15	3.0	26	5	0.7
C 31004129 Irrigation	-301	8	0.2	14	3	0.1
C 31003175 Mining	-43	7	1.4	12	2	0.3
C 30009000 Aledo	-732	890	81.4	1,638	374	29.0
C 30030000 Annetta	-801	974	89.0	1,792	409	31.8
C 30046000 Azle	-110	169	14.8	311	71	5.6
C 30110000 Briar	-36	44	4.0	76	15	1.4
C 30422000 Hudson Oaks	-1,645	2,527	220.9	4,700	1,087	83.5
C 30744000 Reno	-112	136	12.4	250	57	4.4
C 30853000 Springtown	-184	224	20.5	412	94	7.3
C 30944000 Weatherford	-14,497	23,694	2,050.0	44,297	10,188	785.1
C 30973000 Willow Park	-2,637	4,051	354.2	7,535	1,742	133.8
C 30996184 County-Other	-720	591	59.5	1,087	248	18.7
C 31001184 Manufacturing	-277	1,553	216.3	2,879	663	65.8
C 31002184 Steam Electric Power	-11,850	2,935	624.7	5,459	1,262	174.0
C 31003184 Mining	-3,008	489	98.0	900	205	22.3
C 30227000 Dallas	-1	2	0.2	3	1	0.1
C 30388000 Heath	-1,594	2,449	214.1	4,555	1,053	80.9
C 30766000 Rockwall	-12,975	21,207	1,834.8	39,657	9,119	702.7
C 30777000 Rowlett	-4,048	6,616	572.4	12,306	2,845	219.2

TWDB Table 9, Year 2050: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30779000 Royse City	-3,062	3,637	334.1	6,765	1,564	118.4
C 30991000 Wylie	-7	11	1.0	19	4	0.4
C 30996199 County-Other	-505	414	41.7	762	174	13.1
C 31001199 Manufacturing	-3	14	2.0	24	5	0.6
C 31002199 Steam Electric Power	-6,000	1,486	316.3	2,764	639	88.1
C 30037000 Arlington	-16,236	36,176	2,992.7	67,649	15,556	1,213.6
C 30046000 Azle	-633	972	85.0	1,788	408	32.1
C 30067000 Bedford	-1,807	2,953	255.5	5,493	1,270	97.9
C 30093000 Blue Mound	-67	69	6.6	119	23	2.2
C 30110000 Briar	-178	216	19.8	397	91	7.1
C 30131000 Burleson	-528	627	57.6	1,154	263	20.4
C 30186000 Colleyville	-2,322	2,758	253.4	5,130	1,186	89.8
C 30218000 Crowley	-2,043	3,138	274.4	5,837	1,349	103.7
C 30228000 Dalworthington Gard.	-1,177	1,431	130.8	2,662	615	46.7
C 30267000 Edgecliff	-518	534	50.7	983	224	17.2
C 30285000 Euless	-1,739	2,842	245.9	5,286	1,222	94.2
C 30287000 Everman	-544	661	60.5	1,216	278	21.6
C 30303000 Forest Hill	-1,779	2,733	238.9	5,083	1,175	90.3
C 30311000 Fort Worth	-30,333	67,587	5,591.1	126,388	29,062	2,267.3
C 30353000 Grand Prairie	-8,473	13,848	1,198.1	25,896	5,955	458.9
C 30360000 Grapevine	-1,982	3,239	280.3	6,025	1,393	107.3
C 30375000 Haltom City	-6,517	7,741	711.2	14,398	3,329	252.0
C 30384000 Haslet	-457	472	44.7	868	198	15.2
C 30428000 Hurst	-6,515	7,739	711.0	14,395	3,328	252.0
C 30461000 Keller	-7,882	9,362	860.1	17,413	4,026	304.8
C 30465000 Kennedale	-3,257	5,003	437.4	9,306	2,151	165.3
C 30501000 Lake Worth Village	-825	1,003	91.7	1,866	431	32.7
C 30559000 Mansfield	-3,221	5,264	455.5	9,791	2,264	174.4

TWDB Table 9, Year 2050: Social and Economic Impacts of Not Meeting Needs by Region

RWPG Letter, Water User Group Identifier, Name	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
C 30642000 North Richland Hills	-11,841	19,353	1,674.4	36,190	8,322	641.3
C 30677000 Pantego	-401	414	39.2	762	174	13.3
C 30688000 Pelican Bay	-397	410	38.8	754	172	13.2
C 30748000 Richland Hills	-2,510	3,856	337.1	7,172	1,658	127.4
C 30756000 River Oaks	-183	223	20.3	410	94	7.3
C 30785000 Saginaw	-3,519	5,406	472.6	10,055	2,325	178.6
C 30802000 Sansom Park Village	-479	494	46.9	909	207	15.9
C 30846000 Southlake	-15,383	25,142	2,175.3	47,016	10,811	833.1
C 30942000 Watauga	-4,656	5,530	508.1	10,286	2,378	180.1
C 30959000 Westworth Village	-277	286	27.1	526	120	9.2
C 30964000 White Settlement	-1,850	2,842	248.5	5,286	1,222	93.9
C 30996220 County-Other	-19,359	15,883	1,598.5	29,701	6,830	502.1
C 31001220 Manufacturing	-16,783	81,308	11,321.7	152,046	34,962	3,443.1
C 31002220 Steam Electric Power	-2,347	581	123.7	1,069	244	34.5
C 30019000 Alvord	-51	53	5.0	91	17	1.7
C 30044000 Aurora	-82	85	8.0	146	28	2.7
C 30103000 Boyd	-242	250	23.7	460	105	8.0
C 30110000 Briar	-40	49	4.4	84	16	1.6
C 30113000 Bridgeport	-249	303	27.7	558	127	9.9
C 30163000 Chico	-29	30	2.8	52	10	1.0
C 30235000 Decatur	-277	337	30.8	620	142	11.0
C 30635000 Newark	-160	165	15.7	304	69	5.3
C 30745000 Rhome	-132	136	12.9	250	57	4.4
C 30996249 County-Other	-4,457	3,657	368.0	6,802	1,573	115.6
C 31002249 Steam Electric Power	-11,200	2,774	590.4	5,160	1,193	164.5
Grand Total	-1,203,947	1,820,073	169,979.1	3,402,868	785,723	62,293.5

TWDB Table 10, Year 2000: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Blue Ridge	30094000	C	8	-1	1	0.1	1	1	0.0
Celina	30154000	C	8	-108	111	10.6	198	44	3.6
Dallas	30227000	C	8	-1,000	2,228	184.3	4,010	891	74.7
Prosper	30726000	C	8	-188	194	18.4	345	78	6.3
Gainesville	30327000	C	8	-1,502	2,307	201.7	4,153	923	76.2
Lindsay	30525000	C	8	-28	29	2.7	41	15	0.9
Muenster	30615000	C	8	-90	93	8.8	132	48	3.0
Valley View	30923000	C	8	-34	35	3.3	50	18	1.1
County-Other	30996049	C	2	-98	80	8.1	114	42	2.5
County-Other	30996049	C	8	-631	518	52.1	922	207	16.4
Manufacturing	31001049	C	8	-147	461	64.2	821	184	19.5
Mining	31003049	C	2	-89	14	2.9	20	7	0.7
Irrigation	31004049	C	2	-39	1	0.0	1	1	0.0
Livestock	31005049	C	2	-105	9	0.3	13	5	0.1
Livestock	31005049	C	8	-275	23	0.9	33	12	0.3
Addison	30003000	C	8	-859	1,320	115.4	2,376	528	43.6
Balch Springs	30049000	C	8	-327	502	43.9	894	201	16.6
Carrollton	30147000	C	8	-1,492	2,439	211.0	4,390	976	80.8
Cedar Hill	30151000	C	8	-701	833	76.5	1,483	333	27.1
Cockrell Hill	30182000	C	8	-85	88	8.3	125	46	2.8
Combine	30193000	C	8	-10	10	1.0	14	5	0.3
Coppell	30201000	C	8	-982	1,166	107.2	2,099	466	38.0
Dallas	30227000	C	8	-38,044	84,768	7,012.5	154,278	34,755	2,843.6
De Soto	30234000	C	8	-1,047	1,244	114.3	2,239	498	40.5
Duncanville	30256000	C	8	-953	1,132	104.0	2,038	453	36.9
Farmers Branch	30293000	C	8	-1,314	1,561	143.4	2,810	624	50.8
Glenn Heights	30344000	C	8	-83	101	9.2	180	40	3.3

TWDB Table 10, Year 2000: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre -Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Grand Prairie	30353000	C	8	-1,644	2,687	232.5	4,837	1,075	89.0
Hutchins	30429000	C	8	-90	93	8.8	132	48	3.0
Irving	30437000	C	8	-5,255	8,589	743.1	15,460	3,436	284.6
Lancaster	30509000	C	8	-527	810	70.8	1,442	324	26.7
Lewisville	30519000	C	8	-22	36	3.1	51	19	1.2
Ovilla	30663000	C	8	-10	10	1.0	14	5	0.3
Seagoville	30812000	C	8	-228	350	30.6	623	140	11.6
Wilmer	30975000	C	8	-136	140	13.3	249	56	4.5
Manufacturing	31001057	C	8	-4,542	19,029	2,649.7	34,633	7,802	805.8
Mining	31003057	C	8	-1,350	219	44.0	390	88	10.0
Carrollton	30147000	C	8	-1,298	2,121	183.5	3,818	848	70.3
Dallas	30227000	C	8	-674	1,502	124.2	2,704	601	50.4
Flower Mound	30301000	C	8	-612	727	66.8	1,294	291	23.7
Hebron	30390000	C	8	-200	206	19.6	367	82	6.7
Justin	30456000	C	8	-180	186	17.6	331	74	6.0
Krugerville	30481000	C	8	-77	79	7.5	112	41	2.6
Krum	30482000	C	8	-264	272	25.8	484	109	8.8
Lewisville	30519000	C	8	-2,330	3,808	329.5	6,854	1,523	126.2
Little Elm	30527000	C	8	-234	241	22.9	429	96	7.8
Pilot Point	30695000	C	8	-279	288	27.3	513	115	9.3
The Colony	30891000	C	8	-336	399	36.7	710	160	13.0
Cedar Hill	30151000	C	8	-1	1	0.1	1	1	0.0
Glenn Heights	30344000	C	8	-20	24	2.2	34	12	0.8
Grand Prairie	30353000	C	8	-1	2	0.1	3	1	0.1
Italy	30438000	C	8	-37	38	3.6	54	20	1.2
Maypearl	30573000	C	8	-69	71	6.8	101	37	2.3
Milford	30598000	C	8	-51	53	5.0	75	28	1.7

TWDB Table 10, Year 2000: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre -Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Oak Leaf	30647000	C	8	-22	23	2.2	33	12	0.7
Ovilla	30663000	C	8	-87	90	8.5	128	47	2.9
Palmer	30671000	C	8	-83	86	8.1	122	45	2.8
Pecan Hill	30686000	C	8	-3	3	0.3	4	2	0.1
Wortham	30990000	C	8	-267	275	26.1	490	110	8.9
Bells	30071000	C	2	-48	50	4.7	71	26	1.6
Collinsville	30187000	C	8	-52	54	5.1	77	28	1.7
Gunter	30370000	C	8	-61	63	6.0	89	33	2.0
Howe	30419000	C	2	-142	147	13.9	262	59	4.7
Howe	30419000	C	8	-29	30	2.8	43	16	1.0
Luella	30548000	C	2	-65	67	6.4	95	35	2.2
Southmayd	30847000	C	2	-115	119	11.3	212	48	3.8
Tioga	30902000	C	8	-23	24	2.3	34	12	0.8
Tom Bean	30904000	C	2	-110	113	10.8	201	45	3.7
Van Alstyne	30925000	C	8	-115	119	11.3	212	48	3.8
Whitesboro	30967000	C	2	-511	527	50.0	938	211	17.0
Whitesboro	30967000	C	8	-14	14	1.4	20	7	0.5
Whitewright	30968000	C	2	-138	142	13.5	253	57	4.6
County-Other	30996091	C	2	-1,290	1,058	106.5	1,904	423	33.5
County-Other	30996091	C	8	-356	292	29.4	520	117	9.2
Manufacturing	31001091	C	2	-988	3,989	555.4	7,180	1,596	168.9
Manufacturing	31001091	C	8	-4	16	2.2	23	8	0.7
Mining	31003091	C	2	-343	56	11.2	80	29	2.5
Mining	31003091	C	8	-289	47	9.4	67	24	2.1
Malakoff	30557000	C	8	-9	9	0.9	13	5	0.3
Combine	30193000	C	8	-33	34	3.2	48	18	1.1
Dallas	30227000	C	8	-1	2	0.2	3	1	0.1

TWDB Table 10, Year 2000: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Steam Electric Power	31002129	C	8	-7,800	1,932	411.2	3,478	773	114.5
Mining	31003129	C	8	-21	3	0.7	4	2	0.2
Irrigation	31004129	C	8	-397	10	0.3	14	5	0.1
Aledo	30009000	C	8	-17	18	1.7	26	9	0.6
Annetta	30030000	C	8	-18	19	1.8	27	10	0.6
Hudson Oaks	30422000	C	8	-39	40	3.8	57	21	1.3
Weatherford	30944000	C	8	-1,972	3,029	264.8	5,452	1,212	100.1
Weatherford	30944000	C	12	-93	143	12.5	255	57	4.7
Willow Park	30973000	C	8	-36	37	3.5	53	19	1.2
County-Other	30996184	C	8	-616	505	50.9	899	202	16.0
County-Other	30996184	C	12	-272	223	22.5	397	89	7.1
Manufacturing	31001184	C	12	-21	118	16.4	210	47	5.0
Mining	31003184	C	8	-13	2	0.4	3	1	0.1
Mining	31003184	C	12	-1,526	248	49.7	441	99	11.3
Dallas	30227000	C	8	-2	4	0.4	6	2	0.1
Grand Prairie	30353000	C	8	-540	883	76.4	1,572	353	29.2
Kennedale	30465000	C	8	-1,018	1,238	113.2	2,228	495	40.4
Pantego	30677000	C	8	-400	413	39.1	735	165	13.3
Pelican Bay	30688000	C	8	-167	172	16.3	306	69	5.6
Alvord	30019000	C	8	-14	14	1.4	20	7	0.5
Aurora	30044000	C	8	-32	33	3.1	47	17	1.1
Boyd	30103000	C	8	-58	60	5.7	85	31	1.9
Newark	30635000	C	8	-44	45	4.3	64	23	1.5
Rhome	30745000	C	8	-33	34	3.2	48	18	1.1

TWDB Table 10, Year 2010: Social and Economic Impacts of Not Meeting Needs by Basin

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Allen	30012000	C	8	-3,421	5,591	483.8	10,176	2,292	185.3
Blue Ridge	30094000	C	8	-9	9	0.9	16	5	0.3
Celina	30154000	C	8	-757	920	84.1	1,656	359	30.0
Dallas	30227000	C	8	-1,708	3,806	314.8	6,927	1,560	127.7
Fairview	30291000	C	8	-175	181	17.1	326	71	5.8
Farmersville	30294000	C	8	-97	100	9.5	180	39	3.2
Frisco	30319000	C	8	-2,995	4,895	423.5	8,909	2,007	162.2
Garland	30334000	C	8	-1	2	0.1	4	1	0.1
Lucas	30547000	C	8	-139	143	13.6	257	56	4.6
Mckinney	30577000	C	8	-4,853	7,932	686.3	14,436	3,252	262.8
Melissa	30584000	C	8	-16	17	1.6	30	10	0.5
Murphy	30619000	C	8	-277	337	30.8	607	131	11.0
New Hope	30631000	C	8	-13	13	1.3	23	8	0.4
Parker	30679000	C	8	-291	354	32.3	637	138	11.5
Plano	30704000	C	8	-12,349	27,516	2,276.2	50,079	11,282	923.0
Princeton	30724000	C	8	-98	101	9.6	182	39	3.3
Prosper	30726000	C	8	-1,149	1,397	127.7	2,543	573	45.6
Richardson	30747000	C	8	-571	933	80.7	1,679	364	30.9
Royse City	30779000	C	5	-14	17	1.6	30	10	0.6
Sachse	30784000	C	8	-14	22	1.9	39	13	0.7
Wylie	30991000	C	8	-464	713	62.3	1,283	278	23.5
Manufacturing	31001043	C	8	-362	1,421	197.9	2,586	583	60.2
Steam Electric Power	31002043	C	8	-2,564	635	135.2	1,143	248	37.7
Gainesville	30327000	C	8	-1,649	2,533	221.5	4,610	1,039	83.7
Lindsay	30525000	C	8	-35	36	3.4	63	21	1.2
Muenster	30615000	C	8	-98	101	9.6	182	39	3.3
Valley View	30923000	C	8	-43	44	4.2	77	26	1.4

TWDB Table 10, Year 2010: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
County-Other	30996049	C	2	-100	82	8.3	144	48	2.6
County-Other	30996049	C	8	-654	537	54.0	967	209	17.0
Manufacturing	31001049	C	8	-201	631	87.8	1,136	246	26.7
Irrigation	31004049	C	2	-33	1	0.0	2	1	0.0
Livestock	31005049	C	2	-105	9	0.3	16	5	0.1
Livestock	31005049	C	8	-275	23	0.9	40	14	0.3
Addison	30003000	C	8	-1,775	2,727	238.4	4,963	1,118	90.1
Balch Springs	30049000	C	8	-697	1,071	93.6	1,949	439	35.4
Carrollton	30147000	C	8	-2,457	4,016	347.4	7,309	1,647	133.1
Cedar Hill	30151000	C	8	-1,856	2,205	202.5	4,013	904	71.8
Cockrell Hill	30182000	C	8	-143	148	14.0	266	58	4.8
Combine	30193000	C	8	-20	21	2.0	37	12	0.7
Coppell	30201000	C	8	-10,872	12,914	1,186.4	23,503	5,295	420.5
Dallas	30227000	C	8	-67,407	150,194	12,424.8	276,357	63,081	5,038.4
De Soto	30234000	C	8	-2,372	2,817	258.8	5,127	1,155	91.7
Duncanville	30256000	C	8	-1,815	2,156	198.1	3,924	884	70.2
Farmers Branch	30293000	C	8	-2,117	2,515	231.0	4,577	1,031	81.9
Garland	30334000	C	8	-5,430	8,875	767.8	16,153	3,639	294.1
Glenn Heights	30344000	C	8	-170	207	18.9	373	81	6.7
Grand Prairie	30353000	C	8	-2,630	4,299	371.9	7,824	1,763	142.4
Grapevine	30360000	C	8	-3	4	0.3	7	2	0.1
Hutchins	30429000	C	8	-199	205	19.5	369	80	6.6
Irving	30437000	C	8	-46,405	75,845	6,562.0	138,038	31,096	2,513.3
Lancaster	30509000	C	8	-990	1,176	108.0	2,140	482	38.3
Lewisville	30519000	C	8	-46	75	6.5	131	44	2.5
Mesquite	30592000	C	8	-3,747	6,124	529.9	11,146	2,511	202.9
Ovilla	30663000	C	8	-19	20	1.9	35	12	0.6

TWDB Table 10, Year 2010: Social and Economic Impacts of Not Meeting Needs by Basin

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Richardson	30747000	C	8	-3,826	6,253	541.0	11,380	2,564	207.2
Rowlett	30777000	C	8	-1,334	2,180	188.6	3,968	894	72.2
Sachse	30784000	C	8	-483	742	64.9	1,336	289	24.5
Seagoville	30812000	C	8	-616	946	82.7	1,703	369	31.3
Sunnyvale	30871000	C	8	-252	306	28.0	551	119	10.0
Wilmer	30975000	C	8	-223	230	21.8	414	90	7.4
County-Other	30996057	C	8	-268	220	22.1	396	86	7.0
Manufacturing	31001057	C	8	-9,255	38,775	5,399.2	70,571	15,898	1,642.0
Steam Electric Power	31002057	C	8	-2,823	699	148.8	1,258	273	41.5
Mining	31003057	C	8	-1,859	302	60.5	544	118	13.8
Argyle	30036000	C	8	-301	366	33.5	659	143	11.9
Aubrey	30043000	C	8	-34	35	3.3	61	21	1.1
Bartonville	30058000	C	8	-217	224	21.2	403	87	7.2
Carrollton	30147000	C	8	-2,270	3,710	321.0	6,752	1,521	122.9
Copper Canyon	30202000	C	8	-135	139	13.2	250	54	4.5
Corinth	30204000	C	8	-780	1,198	104.8	2,180	491	39.6
Dallas	30227000	C	8	-1,254	2,794	231.1	5,085	1,146	93.7
Double Oak	30251000	C	8	-121	125	11.8	225	49	4.0
Flower Mound	30301000	C	8	-3,183	5,202	450.1	9,468	2,133	172.4
Frisco	30319000	C	8	-68	111	9.6	200	43	3.7
Hebron	30390000	C	8	-348	359	34.1	646	140	11.6
Hickory Creek	30399000	C	8	-113	117	11.1	211	46	3.8
Highland Village	30403000	C	8	-622	955	83.5	1,719	372	31.6
Justin	30456000	C	8	-322	332	31.5	598	129	10.7
Krugerville	30481000	C	8	-139	143	13.6	257	56	4.6
Krum	30482000	C	8	-433	447	42.4	805	174	14.4
Lake Dallas	30498000	C	8	-214	260	23.8	468	101	8.5

TWDB Table 10, Year 2010: Social and Economic Impacts of Not Meeting Needs by Basin

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Lewisville	30519000	C	8	-6,263	10,236	885.6	18,630	4,197	339.2
Little Elm	30527000	C	8	-491	507	48.0	913	198	16.3
Oak Point	30648000	C	8	-68	70	6.7	123	41	2.3
Pilot Point	30695000	C	8	-528	545	51.7	981	213	17.6
Plano	30704000	C	8	-3	7	0.6	12	4	0.2
Roanoke	30758000	C	8	-17	18	1.7	32	11	0.6
Sanger	30801000	C	8	-451	693	60.6	1,247	270	22.9
Shady Shores	30820000	C	8	-70	72	6.8	126	42	2.3
Southlake	30846000	C	8	-314	373	34.3	671	145	12.1
The Colony	30891000	C	8	-1,023	1,215	111.6	2,211	498	39.6
Trophy Club	30911000	C	8	-130	158	14.5	284	62	5.2
Crossroads	30996061	C	8	-38	31	3.1	54	18	1.0
Lincoln Park	30996061	C	8	-6	5	0.5	9	3	0.2
Northlake	30996061	C	8	-57	47	4.7	82	28	1.5
Ponder	30996061	C	8	-162	133	13.4	239	52	4.2
Manufacturing	31001061	C	8	-160	817	113.8	1,471	319	34.6
Steam Electric Power	31002061	C	8	-4,000	991	210.9	1,784	386	58.7
Cedar Hill	30151000	C	8	-4	5	0.4	9	3	0.2
Glenn Heights	30344000	C	8	-40	49	4.4	86	29	1.6
Grand Prairie	30353000	C	8	-3	5	0.4	9	3	0.2
Italy	30438000	C	8	-157	162	15.4	292	63	5.2
Mansfield	30559000	C	8	-8	10	0.9	18	6	0.3
Maypearl	30573000	C	8	-73	75	7.1	131	44	2.4
Milford	30598000	C	8	-65	67	6.4	117	40	2.2
Oak Leaf	30647000	C	8	-40	41	3.9	72	24	1.3
Ovilla	30663000	C	8	-167	172	16.3	310	67	5.6
Palmer	30671000	C	8	-170	175	16.6	315	68	5.7

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Pecan Hill	30686000	C	8	-9	9	0.9	16	5	0.3
Steam Electric Power	31002070	C	8	-15,000	3,715	790.8	6,761	1,523	220.3
Wortham	30990000	C	8	-274	283	26.8	509	110	9.1
Steam Electric Power	31002081	C	8	-8,796	2,179	463.7	3,966	893	129.2
Bells	30071000	C	2	-51	53	5.0	93	31	1.7
Collinsville	30187000	C	8	-55	57	5.4	100	34	1.8
Gunter	30370000	C	8	-68	70	6.7	123	41	2.3
Howe	30419000	C	2	-154	159	15.1	286	62	5.1
Howe	30419000	C	8	-32	33	3.1	58	19	1.1
Luella	30548000	C	2	-67	69	6.6	121	41	2.2
Southmayd	30847000	C	2	-121	125	11.8	225	49	4.0
Tioga	30902000	C	8	-27	28	2.6	49	17	0.9
Tom Bean	30904000	C	2	-111	115	10.9	207	45	3.7
Van Alstyne	30925000	C	8	-266	274	26.0	493	107	8.8
Whitesboro	30967000	C	2	-543	560	53.1	1,008	218	18.1
Whitesboro	30967000	C	8	-16	17	1.6	30	10	0.5
Whitewright	30968000	C	2	-146	151	14.3	272	59	4.9
County-Other	30996091	C	2	-1,148	942	94.8	1,696	367	29.8
County-Other	30996091	C	8	-324	266	26.8	479	104	8.4
Manufacturing	31001091	C	2	-1,508	6,088	847.7	11,080	2,496	257.8
Manufacturing	31001091	C	8	-5	20	2.8	35	12	0.9
Mining	31003091	C	2	-344	56	11.2	98	33	2.6
Mining	31003091	C	8	-199	32	6.5	56	19	1.5
Irrigation	31004091	C	8	-48	1	0.0	2	1	0.0
Malakoff	30557000	C	8	-28	29	2.7	51	17	0.9
Combine	30193000	C	8	-71	73	6.9	128	43	2.4
Crandall	30210000	C	8	-80	83	7.8	145	49	2.7

TWDB Table 10, Year 2010: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Dallas	30227000	C	8	-1	2	0.2	4	1	0.1
Forney	30304000	C	8	-312	479	41.9	862	187	15.8
Kaufman	30459000	C	8	-184	224	20.5	403	87	7.3
Oak Grove	30646000	C	8	-17	18	1.7	32	11	0.6
County-Other	30996129	C	5	-11	9	0.9	16	5	0.3
County-Other	30996129	C	8	-480	394	39.6	709	154	12.4
Manufacturing	31001129	C	8	-31	114	15.9	205	44	4.8
Steam Electric Power	31002129	C	8	-8,000	1,981	421.7	3,605	812	117.5
Mining	31003129	C	8	-31	5	1.0	9	3	0.2
Irrigation	31004129	C	8	-377	9	0.3	16	5	0.1
Aledo	30009000	C	8	-154	159	15.1	286	62	5.1
Annetta	30030000	C	8	-98	101	9.6	182	39	3.3
Azle	30046000	C	8	-20	31	2.7	54	18	1.0
Briar	30110000	C	8	-6	7	0.7	12	4	0.2
Hudson Oaks	30422000	C	8	-286	295	28.0	531	115	9.5
Reno	30744000	C	8	-12	12	1.2	21	7	0.4
Springtown	30853000	C	8	-28	29	2.7	51	17	0.9
Weatherford	30944000	C	8	-3,012	3,578	328.7	6,512	1,467	116.5
Weatherford	30944000	C	12	-149	177	16.3	319	69	5.8
Willow Park	30973000	C	8	-308	318	30.1	572	124	10.2
County-Other	30996184	C	8	-1,680	1,378	138.7	2,508	565	43.6
County-Other	30996184	C	12	-843	692	69.6	1,246	270	21.9
Manufacturing	31001184	C	8	-18	101	14.1	182	39	4.3
Manufacturing	31001184	C	12	-33	185	25.8	333	72	7.8
Steam Electric Power	31002184	C	8	-5,796	1,436	305.6	2,614	589	85.1
Mining	31003184	C	8	-12	2	0.4	4	1	0.1
Mining	31003184	C	12	-1,726	280	56.2	504	109	12.8

TWDB Table 10, Year 2010: Social and Economic Impacts of Not Meeting Needs by Basin

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Dallas	30227000	C	8	-4	9	0.7	16	5	0.3
Heath	30388000	C	8	-151	184	16.8	331	72	6.0
Rockwall	30766000	C	8	-1,269	1,507	138.5	2,743	618	49.1
Rowlett	30777000	C	8	-347	567	49.1	1,021	221	18.8
Royse City	30779000	C	5	-218	265	24.2	477	103	8.6
Wylie	30991000	C	8	-2	3	0.3	5	2	0.1
Manufacturing	31001199	C	8	-1	5	0.7	9	3	0.2
Steam Electric Power	31002199	C	8	-5,600	1,387	295.2	2,524	569	82.2
Arlington	30037000	C	8	-3,534	7,874	651.4	14,331	3,228	264.2
Azle	30046000	C	8	-105	161	14.1	290	63	5.3
Bedford	30067000	C	8	-482	788	68.2	1,418	307	26.1
Blue Mound	30093000	C	8	-15	15	1.5	26	9	0.5
Briar	30110000	C	8	-35	43	3.9	75	25	1.4
Burleson	30131000	C	8	-20	24	2.2	42	14	0.8
Colleyville	30186000	C	8	-428	508	46.7	914	198	16.6
Crowley	30218000	C	8	-55	67	6.1	117	40	2.2
Dalworthington Gard.	30228000	C	8	-40	41	3.9	72	24	1.3
Edgecliff	30267000	C	8	-28	29	2.7	51	17	0.9
Euless	30285000	C	8	-1,363	2,228	192.7	4,055	913	73.8
Everman	30287000	C	8	-33	40	3.7	70	24	1.3
Forest Hill	30303000	C	8	-81	124	10.9	223	48	4.1
Fort Worth	30311000	C	8	-6,074	13,534	1,119.6	24,632	5,549	454.0
Grand Prairie	30353000	C	8	-1,161	1,898	164.2	3,454	778	62.9
Grapevine	30360000	C	8	-410	487	44.7	877	190	15.9
Haltom City	30375000	C	8	-361	429	39.4	772	167	14.0
Haslet	30384000	C	8	-12	12	1.2	21	7	0.4
Hurst	30428000	C	8	-330	392	36.0	706	153	12.8

TWDB Table 10, Year 2010: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Keller	30461000	C	8	-6,051	7,187	660.3	13,080	2,947	234.0
Kennedale	30465000	C	8	-1,699	2,610	228.2	4,750	1,070	86.2
Lake Worth Village	30501000	C	8	-37	45	4.1	79	27	1.5
Mansfield	30559000	C	8	-323	384	35.2	691	150	12.5
North Richland Hills	30642000	C	8	-552	902	78.1	1,624	352	29.9
Pantego	30677000	C	8	-404	417	39.5	751	163	13.4
Pelican Bay	30688000	C	8	-212	219	20.7	394	85	7.1
Richland Hills	30748000	C	8	-65	100	8.7	175	59	3.3
River Oaks	30756000	C	8	-57	69	6.3	121	41	2.3
Saginaw	30785000	C	8	-136	209	18.3	376	82	6.9
Sansom Park Village	30802000	C	8	-28	29	2.7	51	17	0.9
Southlake	30846000	C	8	-7,459	8,860	814.0	16,125	3,633	288.5
Watauga	30942000	C	8	-202	310	27.1	558	121	10.3
Westworth Village	30959000	C	8	-18	19	1.8	33	11	0.6
White Settlement	30964000	C	8	-110	169	14.8	304	66	5.6
Manufacturing	31001220	C	8	-1,869	9,055	1,260.8	16,480	3,713	383.4
Steam Electric Power	31002220	C	8	-401	99	21.1	173	58	5.9
Alvord	30019000	C	8	-11	11	1.1	19	6	0.4
Aurora	30044000	C	8	-49	51	4.8	89	30	1.6
Boyd	30103000	C	8	-140	144	13.7	259	56	4.7
Briar	30110000	C	8	-9	11	1.0	19	6	0.4
Bridgeport	30113000	C	8	-41	42	4.0	74	25	1.4
Chico	30163000	C	8	-1	1	0.1	2	1	0.0
Decatur	30235000	C	8	-59	72	6.6	126	42	2.3
Newark	30635000	C	8	-80	83	7.8	145	49	2.7
Rhome	30745000	C	8	-66	68	6.5	119	40	2.2
County-Other	30996249	C	8	-702	576	58.0	1,037	225	18.2

TWDB Table 10, Year 2010: Social and Economic Impacts of Not Meeting Needs by Basin

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Steam Electric Power	31002249	C	8	-11,200	2,774	590.4	5,049	1,137	164.5

TWDB Table 10, Year 2020: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre -Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Allen	30012000	C	8	-9,355	15,290	1,322.9	28,287	6,422	506.7
Blue Ridge	30094000	C	8	-17	18	1.7	29	7	0.6
Celina	30154000	C	8	-2,263	3,476	303.9	6,396	1,460	114.8
Dallas	30227000	C	8	-1,207	2,689	222.5	4,948	1,129	90.2
Fairview	30291000	C	8	-405	418	39.6	757	171	13.5
Farmersville	30294000	C	8	-263	320	29.2	579	131	10.4
Frisco	30319000	C	8	-10,121	16,542	1,431.2	30,603	6,948	548.1
Garland	30334000	C	8	-1	2	0.1	3	1	0.1
Lucas	30547000	C	8	-313	381	34.8	690	156	12.4
Mckinney	30577000	C	8	-14,676	23,987	2,075.3	44,376	10,075	794.8
Melissa	30584000	C	8	-38	39	3.7	63	15	1.3
Murphy	30619000	C	8	-833	1,280	111.9	2,355	538	42.3
New Hope	30631000	C	8	-28	29	2.7	47	11	0.9
Parker	30679000	C	8	-1,092	1,677	146.7	3,086	704	55.4
Plano	30704000	C	8	-25,439	56,682	4,689.0	104,862	23,806	1,901.5
Princeton	30724000	C	8	-287	349	31.9	632	143	11.4
Prosper	30726000	C	8	-2,179	3,347	292.6	6,158	1,406	110.6
Richardson	30747000	C	8	-1,296	2,118	183.3	3,897	890	70.2
Royse City	30779000	C	5	-38	58	5.1	93	23	1.9
Sachse	30784000	C	8	-35	54	4.7	87	21	1.8
Wylie	30991000	C	8	-1,377	1,636	150.3	3,010	687	53.3
County-Other	30996043	C	5	-338	277	27.9	501	114	8.8
County-Other	30996043	C	8	-6,387	5,240	527.4	9,642	2,201	165.7
Manufacturing	31001043	C	8	-854	3,353	466.9	6,170	1,408	142.0
Steam Electric Power	31002043	C	8	-3,219	797	169.7	1,443	327	47.3
Gainesville	30327000	C	8	-1,828	2,808	245.5	5,167	1,179	92.8
Lindsay	30525000	C	8	-48	50	4.7	81	20	1.6

TWDB Table 10, Year 2020: Social and Economic Impacts of Not Meeting Needs by Basin

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Muenster	30615000	C	8	-107	110	10.5	199	45	3.6
Valley View	30923000	C	8	-56	58	5.5	93	23	1.9
County-Other	30996049	C	2	-88	72	7.3	116	28	2.3
County-Other	30996049	C	8	-562	461	46.4	834	189	14.6
Manufacturing	31001049	C	8	-253	794	110.6	1,437	326	33.6
Irrigation	31004049	C	2	-27	1	0.0	2	0	0.0
Livestock	31005049	C	2	-105	9	0.3	14	4	0.1
Livestock	31005049	C	8	-275	23	0.9	37	9	0.3
Addison	30003000	C	8	-10,783	16,564	1,448.2	30,643	6,957	547.2
Balch Springs	30049000	C	8	-3,580	5,499	480.8	10,118	2,310	181.7
Carrollton	30147000	C	8	-14,317	23,400	2,024.5	43,290	9,828	775.4
Cedar Hill	30151000	C	8	-11,195	18,297	1,583.1	33,849	7,685	606.3
Cockrell Hill	30182000	C	8	-688	710	67.3	1,285	291	22.9
Combine	30193000	C	8	-13	13	1.3	21	5	0.4
Coppell	30201000	C	8	-11,147	13,241	1,216.4	24,496	5,561	431.1
Dallas	30227000	C	8	-7,828	17,442	1,442.9	32,268	7,326	585.1
De Soto	30234000	C	8	-13,391	21,887	1,893.6	40,491	9,193	725.2
Duncanville	30256000	C	8	-9,111	10,822	994.2	20,021	4,545	352.4
Farmers Branch	30293000	C	8	-12,952	15,384	1,413.4	28,460	6,461	500.9
Garland	30334000	C	8	-11,522	18,832	1,629.3	34,839	7,909	624.0
Glenn Heights	30344000	C	8	-114	139	12.7	252	57	4.5
Grand Prairie	30353000	C	8	-15,293	24,995	2,162.5	46,241	10,498	828.3
Grapevine	30360000	C	8	-5	8	0.7	13	3	0.3
Hutchins	30429000	C	8	-1,153	1,190	112.8	2,190	500	38.4
Irving	30437000	C	8	-47,945	78,362	6,779.8	144,970	32,912	2,596.7
Lancaster	30509000	C	8	-5,094	6,051	555.9	11,134	2,541	197.0
Lewisville	30519000	C	8	-348	569	49.2	1,030	233	18.8

TWDB Table 10, Year 2020: Social and Economic Impacts of Not Meeting Needs by Basin

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Mesquite	30592000	C	8	-9,162	14,975	1,295.6	27,704	6,290	496.2
Ovilla	30663000	C	8	-97	100	9.5	181	41	3.2
Richardson	30747000	C	8	-8,419	13,760	1,190.5	25,456	5,779	456.0
Rowlett	30777000	C	8	-3,326	5,436	470.3	10,002	2,283	180.1
Sachse	30784000	C	8	-1,153	1,771	154.9	3,259	744	58.5
Seagoville	30812000	C	8	-3,433	5,273	461.1	9,702	2,215	174.2
Sunnyvale	30871000	C	8	-680	827	75.6	1,497	339	27.0
Wilmer	30975000	C	8	-269	278	26.3	503	114	8.9
County-Other	30996057	C	8	-23,387	19,187	1,931.1	35,496	8,059	606.6
Manufacturing	31001057	C	8	-7,257	30,404	4,233.6	56,247	12,770	1,287.5
Steam Electric Power	31002057	C	8	-9,511	2,356	501.4	4,335	990	139.7
Mining	31003057	C	8	-2,607	424	84.9	767	174	19.4
Argyle	30036000	C	8	-366	562	49.2	1,017	230	18.6
Aubrey	30043000	C	8	-39	40	3.8	64	16	1.3
Bartonville	30058000	C	8	-195	237	21.7	429	97	7.7
Carrollton	30147000	C	8	-13,682	22,362	1,934.7	41,370	9,392	741.0
Copper Canyon	30202000	C	8	-139	143	13.6	259	59	4.6
Corinth	30204000	C	8	-707	840	77.2	1,520	344	27.3
Dallas	30227000	C	8	-161	359	29.7	650	147	12.0
Denton	30240000	C	8	-9,475	15,486	1,339.8	28,649	6,504	513.2
Double Oak	30251000	C	8	-90	93	8.8	150	36	3.0
Flower Mound	30301000	C	8	-7,713	12,606	1,090.7	23,321	5,295	417.7
Frisco	30319000	C	8	-163	266	23.0	481	109	8.8
Hebron	30390000	C	8	-613	632	60.0	1,144	259	20.4
Hickory Creek	30399000	C	8	-125	152	13.9	275	62	5.0
Highland Village	30403000	C	8	-367	564	49.3	1,021	231	18.6
Justin	30456000	C	8	-745	769	72.9	1,392	315	24.8

TWDB Table 10, Year 2020: Social and Economic Impacts of Not Meeting Needs by Basin

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Krugerville	30481000	C	8	-166	171	16.2	310	70	5.5
Krum	30482000	C	8	-610	629	59.7	1,138	258	20.3
Lake Dallas	30498000	C	8	-169	205	18.8	371	84	6.7
Lewisville	30519000	C	8	-35,720	58,382	5,051.1	108,007	24,520	1,934.6
Little Elm	30527000	C	8	-937	1,139	104.2	2,096	478	37.2
Oak Point	30648000	C	8	-114	139	12.7	252	57	4.5
Pilot Point	30695000	C	8	-753	916	83.7	1,658	376	29.9
Plano	30704000	C	8	-9	20	1.7	32	8	0.7
Roanoke	30758000	C	8	-462	477	45.2	863	196	15.4
Sanger	30801000	C	8	-943	1,449	126.6	2,666	609	47.9
Shady Shores	30820000	C	8	-64	66	6.3	106	26	2.1
Southlake	30846000	C	8	-372	442	40.6	800	181	14.4
The Colony	30891000	C	8	-8,806	14,393	1,245.2	26,627	6,045	476.9
Trophy Club	30911000	C	8	-3,379	5,191	453.8	9,551	2,180	171.5
Crossroads	30996061	C	8	-75	62	6.2	100	24	1.9
Lincoln Park	30996061	C	8	-9	7	0.7	11	3	0.2
Northlake	30996061	C	8	-2,201	1,806	181.7	3,323	759	57.1
Ponder	30996061	C	8	-544	446	44.9	807	183	14.1
Manufacturing	31001061	C	8	-151	772	107.4	1,397	317	32.7
Steam Electric Power	31002061	C	8	-4,000	991	210.9	1,794	406	58.7
Cedar Hill	30151000	C	8	-30	49	4.2	79	19	1.6
Ferris	30296000	C	8	-10	10	1.0	16	4	0.3
Glenn Heights	30344000	C	8	-26	32	2.9	52	12	1.0
Grand Prairie	30353000	C	8	-32	52	4.5	84	20	1.7
Italy	30438000	C	8	-285	294	27.9	532	121	9.5
Mansfield	30559000	C	8	-9	11	1.0	18	4	0.3
Maypearl	30573000	C	8	-81	84	7.9	135	33	2.7

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Midlothian	30596000	C	8	-109	167	14.6	302	68	5.5
Milford	30598000	C	8	-75	77	7.3	124	30	2.5
Oak Leaf	30647000	C	8	-27	28	2.6	45	11	0.9
Ovilla	30663000	C	8	-882	910	86.3	1,647	373	29.3
Palmer	30671000	C	8	-242	250	23.7	453	103	8.0
Pecan Hill	30686000	C	8	-9	9	0.9	14	4	0.3
Red Oak	30739000	C	8	-32	39	3.6	63	15	1.3
Steam Electric Power	31002070	C	8	-15,000	3,715	790.8	6,836	1,560	220.3
Wortham	30990000	C	8	-292	301	28.6	545	123	9.7
Steam Electric Power	31002081	C	8	-10,796	2,674	569.1	4,920	1,123	158.5
Bells	30071000	C	2	-68	70	6.7	113	27	2.3
Collinsville	30187000	C	8	-59	61	5.8	98	24	2.0
Gunter	30370000	C	8	-103	106	10.1	192	43	3.4
Howe	30419000	C	2	-149	154	14.6	279	63	5.0
Howe	30419000	C	8	-31	32	3.0	52	12	1.0
Luella	30548000	C	2	-69	71	6.8	114	28	2.3
Pottsboro	30719000	C	2	-51	53	5.0	85	21	1.7
Southmayd	30847000	C	2	-125	129	12.2	233	53	4.2
Tioga	30902000	C	8	-33	34	3.2	55	13	1.1
Tom Bean	30904000	C	2	-118	122	11.5	221	50	3.9
Van Alstyne	30925000	C	8	-496	512	48.5	927	210	16.5
Whitesboro	30967000	C	2	-486	501	47.6	907	205	16.2
Whitesboro	30967000	C	8	-12	12	1.2	19	5	0.4
Whitewright	30968000	C	2	-153	158	15.0	286	65	5.1
County-Other	30996091	C	2	-1,132	929	93.5	1,681	381	29.4
County-Other	30996091	C	8	-304	249	25.1	451	102	7.9
Manufacturing	31001091	C	2	-1,868	7,542	1,050.1	13,877	3,168	319.4

TWDB Table 10, Year 2020: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre -Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Manufacturing	31001091	C	8	-5	20	2.8	32	8	0.9
Mining	31003091	C	2	-351	57	11.4	92	22	2.6
Mining	31003091	C	8	-169	27	5.5	43	11	1.3
Irrigation	31004091	C	8	-128	3	0.1	5	1	0.0
Malakoff	30557000	C	8	-42	43	4.1	69	17	1.4
Combine	30193000	C	8	-46	47	4.5	76	18	1.5
Crandall	30210000	C	8	-194	200	19.0	362	82	6.5
Dallas	30227000	C	8	-1	2	0.2	3	1	0.1
Forney	30304000	C	8	-1,017	1,562	136.6	2,874	656	51.6
Kaufman	30459000	C	8	-459	705	61.6	1,276	289	23.3
Oak Grove	30646000	C	8	-37	38	3.6	61	15	1.2
County-Other	30996129	C	5	-35	29	2.9	47	11	0.9
County-Other	30996129	C	8	-1,350	1,108	111.5	2,039	465	35.0
Manufacturing	31001129	C	8	-95	349	48.6	632	143	14.8
Steam Electric Power	31002129	C	8	-8,000	1,981	421.7	3,645	832	117.5
Mining	31003129	C	8	-46	7	1.5	11	3	0.3
Irrigation	31004129	C	8	-357	9	0.3	14	4	0.1
Mining	31003175	C	8	-9	1	0.3	2	0	0.1
Aledo	30009000	C	8	-369	381	36.1	690	156	12.3
Annetta	30030000	C	8	-226	233	22.1	422	96	7.5
Azle	30046000	C	8	-23	35	3.1	56	14	1.2
Briar	30110000	C	8	-7	9	0.8	14	4	0.3
Hudson Oaks	30422000	C	8	-870	1,058	96.7	1,947	444	34.5
Reno	30744000	C	8	-21	22	2.1	35	9	0.7
Springtown	30853000	C	8	-36	37	3.5	60	14	1.2
Weatherford	30944000	C	8	-4,653	5,527	507.8	10,170	2,321	179.9
Weatherford	30944000	C	12	-235	279	25.6	505	114	9.1

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Willow Park	30973000	C	8	-738	897	82.0	1,624	368	29.3
County-Other	30996184	C	8	-1,735	1,423	143.3	2,618	598	45.0
County-Other	30996184	C	12	-869	713	71.8	1,291	292	22.5
Manufacturing	31001184	C	8	-58	325	45.3	588	133	13.8
Manufacturing	31001184	C	12	-46	258	35.9	467	106	10.9
Steam Electric Power	31002184	C	8	-5,809	1,439	306.2	2,648	604	85.3
Mining	31003184	C	8	-14	2	0.5	3	1	0.1
Mining	31003184	C	12	-2,011	327	65.5	592	134	14.9
Dallas	30227000	C	8	-1	2	0.2	3	1	0.1
Heath	30388000	C	8	-433	527	48.1	954	216	17.2
Rockwall	30766000	C	8	-3,936	4,675	429.5	8,602	1,964	152.2
Rowlett	30777000	C	8	-1,004	1,641	142.0	3,019	689	54.4
Royse City	30779000	C	5	-626	962	84.1	1,741	394	31.8
Wylie	30991000	C	8	-3	4	0.3	6	2	0.1
Manufacturing	31001199	C	8	-2	9	1.3	14	4	0.4
Steam Electric Power	31002199	C	8	-6,000	1,486	316.3	2,734	624	88.1
Arlington	30037000	C	8	-2,683	5,978	494.5	11,000	2,511	200.5
Azle	30046000	C	8	-132	203	17.7	367	83	6.7
Bedford	30067000	C	8	-340	556	48.1	1,006	228	18.4
Blue Mound	30093000	C	8	-12	12	1.2	19	5	0.4
Briar	30110000	C	8	-42	51	4.7	82	20	1.7
Burleson	30131000	C	8	-487	578	53.1	1,046	237	18.8
Colleyville	30186000	C	8	-383	455	41.8	824	187	14.8
Crowley	30218000	C	8	-1,387	2,131	186.3	3,921	895	70.4
Dalworthington Gard.	30228000	C	8	-913	942	89.3	1,705	386	30.4
Edgecliff	30267000	C	8	-551	568	53.9	1,028	233	18.3
Euless	30285000	C	8	-327	534	46.2	967	219	17.7

TWDB Table 10, Year 2020: Social and Economic Impacts of Not Meeting Needs by Basin

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Everman	30287000	C	8	-631	767	70.1	1,388	314	25.0
Forest Hill	30303000	C	8	-1,825	2,803	245.1	5,158	1,177	92.6
Fort Worth	30311000	C	8	-5,786	12,892	1,066.5	23,850	5,415	432.5
Grand Prairie	30353000	C	8	-8,587	14,035	1,214.3	25,965	5,895	465.1
Grapevine	30360000	C	8	-324	530	45.8	959	217	17.5
Haltom City	30375000	C	8	-6,737	8,002	735.2	14,724	3,361	260.5
Haslet	30384000	C	8	-326	336	31.9	608	138	10.8
Hurst	30428000	C	8	-6,897	8,192	752.6	15,073	3,441	266.7
Keller	30461000	C	8	-7,136	8,476	778.7	15,596	3,560	276.0
Kennedale	30465000	C	8	-2,024	3,109	271.8	5,721	1,306	102.7
Lake Worth Village	30501000	C	8	-796	968	88.5	1,752	397	31.6
Mansfield	30559000	C	8	-303	360	33.1	652	148	11.7
North Richland Hills	30642000	C	8	-7,213	11,789	1,020.0	21,810	4,951	390.6
Pantego	30677000	C	8	-423	436	41.4	789	179	14.1
Pelican Bay	30688000	C	8	-272	281	26.6	509	115	9.0
Richland Hills	30748000	C	8	-1,551	2,383	208.3	4,385	1,001	78.7
River Oaks	30756000	C	8	-49	60	5.4	97	23	1.9
Saginaw	30785000	C	8	-2,970	4,562	398.9	8,394	1,916	150.7
Sansom Park Village	30802000	C	8	-512	528	50.1	956	216	17.0
Southlake	30846000	C	8	-8,932	10,610	974.7	19,629	4,456	345.4
Watauga	30942000	C	8	-4,336	5,150	473.2	9,476	2,163	167.7
Westworth Village	30959000	C	8	-312	322	30.5	583	132	10.4
White Settlement	30964000	C	8	-1,993	3,061	267.7	5,632	1,286	101.1
County-Other	30996220	C	8	-7,034	5,771	580.8	10,619	2,424	182.4
Manufacturing	31001220	C	8	-1,977	9,578	1,333.7	17,624	4,023	405.6
Steam Electric Power	31002220	C	8	-411	102	21.7	185	42	6.0
Alvord	30019000	C	8	-12	12	1.2	19	5	0.4

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Aurora	30044000	C	8	-66	68	6.5	109	27	2.2
Boyd	30103000	C	8	-207	214	20.3	387	88	6.9
Briar	30110000	C	8	-10	12	1.1	19	5	0.4
Bridgeport	30113000	C	8	-40	49	4.4	79	19	1.6
Chico	30163000	C	8	-20	21	2.0	34	8	0.7
Decatur	30235000	C	8	-53	64	5.9	103	25	2.1
Newark	30635000	C	8	-105	108	10.3	195	44	3.5
Rhome	30745000	C	8	-75	77	7.3	124	30	2.5
County-Other	30996249	C	8	-1,761	1,445	145.4	2,659	607	45.7
Steam Electric Power	31002249	C	8	-11,200	2,774	590.4	5,104	1,165	164.5

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Allen	30012000	C	8	-13,487	22,043	1,907.2	41,000	9,478	730.4
Blue Ridge	30094000	C	8	-22	23	2.2	47	12	0.7
Celina	30154000	C	8	-5,384	8,270	723.1	15,465	3,556	273.2
Fairview	30291000	C	8	-599	728	66.6	1,361	306	23.8
Farmersville	30294000	C	8	-399	485	44.4	907	204	15.8
Frisco	30319000	C	8	-20,088	32,832	2,840.6	61,068	14,118	1,087.9
Garland	30334000	C	8	-2	3	0.3	6	2	0.1
Lucas	30547000	C	8	-502	610	55.8	1,141	256	19.9
Mckinney	30577000	C	8	-24,944	40,769	3,527.3	75,830	17,531	1,350.9
Melissa	30584000	C	8	-58	60	5.7	123	31	1.9
Murphy	30619000	C	8	-1,270	1,951	170.6	3,648	839	64.5
New Hope	30631000	C	8	-36	37	3.5	76	19	1.2
Parker	30679000	C	8	-2,356	3,619	316.4	6,768	1,556	119.6
Plano	30704000	C	8	-32,828	73,146	6,051.0	136,052	31,453	2,453.8
Princeton	30724000	C	8	-428	520	47.6	972	218	17.0
Prosper	30726000	C	8	-3,216	4,940	431.9	9,238	2,124	163.2
Richardson	30747000	C	8	-1,841	3,009	260.3	5,627	1,294	99.7
Royse City	30779000	C	5	-60	92	8.1	189	47	3.0
Sachse	30784000	C	8	-50	77	6.7	158	39	2.5
Wylie	30991000	C	8	-2,630	3,124	287.0	5,842	1,343	101.7
County-Other	30996043	C	5	-640	525	52.8	982	221	16.6
County-Other	30996043	C	8	-11,101	9,108	916.6	17,032	3,916	287.9
Manufacturing	31001043	C	8	-1,238	4,860	676.8	9,088	2,090	205.8
Steam Electric Power	31002043	C	8	-3,610	894	190.3	1,672	375	53.0
Gainesville	30327000	C	8	-2,229	3,424	299.4	6,403	1,472	113.1
Lindsay	30525000	C	8	-74	76	7.2	156	39	2.5
Muenster	30615000	C	8	-151	156	14.8	292	66	5.0

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Valley View	30923000	C	8	-78	80	7.6	164	41	2.6
County-Other	30996049	C	2	-101	83	8.3	170	42	2.6
County-Other	30996049	C	8	-668	548	55.2	1,025	230	17.3
Manufacturing	31001049	C	8	-339	1,064	148.1	1,990	458	45.0
Irrigation	31004049	C	2	-44	1	0.0	2	1	0.0
Livestock	31005049	C	2	-146	12	0.5	25	6	0.2
Livestock	31005049	C	8	-353	29	1.2	59	15	0.4
Addison	30003000	C	8	-11,795	18,119	1,584.1	33,701	7,791	598.6
Balch Springs	30049000	C	8	-3,597	5,525	483.1	10,332	2,376	182.6
Carrollton	30147000	C	8	-14,304	23,379	2,022.7	43,485	10,053	774.7
Cedar Hill	30151000	C	8	-14,060	22,980	1,988.2	42,743	9,881	761.5
Cockrell Hill	30182000	C	8	-672	693	65.8	1,296	291	22.4
Coppell	30201000	C	8	-11,191	13,293	1,221.2	24,725	5,716	432.8
De Soto	30234000	C	8	-15,047	24,593	2,127.8	45,743	10,575	814.9
Duncanville	30256000	C	8	-9,361	11,119	1,021.5	20,681	4,781	362.0
Farmers Branch	30293000	C	8	-13,432	15,955	1,465.8	29,676	6,861	519.5
Garland	30334000	C	8	-15,157	24,773	2,143.3	46,078	10,652	820.9
Glenn Heights	30344000	C	8	-1,101	1,691	147.9	3,162	727	55.9
Grand Prairie	30353000	C	8	-14,791	24,175	2,091.6	44,966	10,395	801.1
Grapevine	30360000	C	8	-6	10	0.8	21	5	0.3
Hutchins	30429000	C	8	-1,428	1,473	139.7	2,755	633	47.5
Irving	30437000	C	8	-60,359	98,652	8,535.2	183,493	42,420	3,269.0
Lancaster	30509000	C	8	-5,156	6,124	562.7	11,452	2,633	199.4
Lewisville	30519000	C	8	-415	678	58.7	1,268	285	22.5
Mesquite	30592000	C	8	-13,641	22,295	1,928.9	41,469	9,587	738.8
Ovilla	30663000	C	8	-108	111	10.6	208	47	3.6
Richardson	30747000	C	8	-11,320	18,502	1,600.7	34,414	7,956	613.1

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Rowlett	30777000	C	8	-4,965	8,115	702.1	15,175	3,489	268.9
Sachse	30784000	C	8	-1,726	2,651	231.8	4,957	1,140	87.6
Seagoville	30812000	C	8	-3,820	5,868	513.0	10,973	2,523	193.9
Sunnyvale	30871000	C	8	-930	1,131	103.4	2,115	486	36.9
Wilmer	30975000	C	8	-272	281	26.6	525	118	9.0
County-Other	30996057	C	8	-50,227	41,208	4,147.3	76,647	17,719	1,302.7
Manufacturing	31001057	C	8	-2,866	12,007	1,672.0	22,333	5,163	508.5
Steam Electric Power	31002057	C	8	-8,427	2,087	444.3	3,903	897	123.8
Mining	31003057	C	8	-3,361	546	109.5	1,021	229	25.0
Argyle	30036000	C	8	-3,833	5,888	514.8	11,011	2,532	194.5
Aubrey	30043000	C	8	-531	548	52.0	1,025	230	17.7
Bartonville	30058000	C	8	-2,170	2,639	241.2	4,935	1,135	86.0
Carrollton	30147000	C	8	-13,976	22,843	1,976.3	42,488	9,822	756.9
Copper Canyon	30202000	C	8	-1,209	1,470	134.4	2,749	632	47.9
Corinth	30204000	C	8	-6,715	7,976	732.8	14,915	3,430	259.7
Denton	30240000	C	8	-18,210	29,763	2,575.0	55,359	12,798	986.2
Double Oak	30251000	C	8	-913	942	89.3	1,762	396	30.4
Flower Mound	30301000	C	8	-27,113	44,314	3,834.0	82,424	19,055	1,468.4
Frisco	30319000	C	8	-258	422	36.5	789	177	14.0
Hebron	30390000	C	8	-669	690	65.5	1,290	290	22.3
Hickory Creek	30399000	C	8	-1,243	1,511	138.2	2,826	650	49.3
Highland Village	30403000	C	8	-3,370	5,177	452.6	9,681	2,226	171.0
Justin	30456000	C	8	-1,265	1,538	140.6	2,876	661	50.2
Krugerville	30481000	C	8	-258	266	25.2	497	112	8.6
Krum	30482000	C	8	-867	1,054	96.4	1,971	453	34.4
Lake Dallas	30498000	C	8	-1,543	2,370	207.2	4,432	1,019	78.3
Lewisville	30519000	C	8	-40,071	65,493	5,666.4	121,817	28,162	2,170.2

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Little Elm	30527000	C	8	-1,387	1,687	154.2	3,155	725	55.0
Oak Point	30648000	C	8	-1,453	1,767	161.5	3,304	760	57.6
Pilot Point	30695000	C	8	-1,128	1,372	125.4	2,566	590	44.7
Plano	30704000	C	8	-16	36	2.9	74	18	1.2
Roanoke	30758000	C	8	-630	766	70.0	1,432	322	25.0
Sanger	30801000	C	8	-1,591	2,444	213.7	4,570	1,051	80.7
Shady Shores	30820000	C	8	-650	671	63.6	1,255	282	21.6
Southlake	30846000	C	8	-473	562	51.6	1,051	236	18.3
The Colony	30891000	C	8	-9,912	16,200	1,401.6	30,132	6,966	536.8
Trophy Club	30911000	C	8	-4,442	6,823	596.6	12,759	2,934	225.4
Crossroads	30996061	C	8	-1,138	934	94.0	1,747	392	29.5
Lincoln Park	30996061	C	8	-184	151	15.2	282	63	4.8
Northlake	30996061	C	8	-3,882	3,185	320.5	5,956	1,370	100.7
Ponder	30996061	C	8	-978	802	80.8	1,500	337	25.4
County-Other	30996061	C	8	-27,772	22,785	2,293.2	42,380	9,798	720.3
Manufacturing	31001061	C	8	-1,120	5,722	796.8	10,700	2,460	242.3
Steam Electric Power	31002061	C	8	-4,000	991	210.9	1,853	416	58.7
Cedar Hill	30151000	C	8	-39	64	5.5	131	33	2.1
Ferris	30296000	C	8	-34	35	3.3	72	18	1.1
Glenn Heights	30344000	C	8	-258	396	34.6	741	166	13.1
Grand Prairie	30353000	C	8	-31	51	4.4	105	26	1.7
Italy	30438000	C	8	-435	449	42.6	840	189	14.5
Mansfield	30559000	C	8	-29	47	4.1	96	24	1.6
Maypearl	30573000	C	8	-81	84	7.9	172	43	2.7
Midlothian	30596000	C	8	-320	492	43.0	920	207	16.2
Milford	30598000	C	8	-88	91	8.6	187	46	2.9
Oak Leaf	30647000	C	8	-254	262	24.9	490	110	8.4

TWDB Table 10, Year 2030: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Ovilla	30663000	C	8	-971	1,002	95.0	1,874	431	32.3
Palmer	30671000	C	8	-313	323	30.6	604	136	10.4
Pecan Hill	30686000	C	8	-30	31	2.9	64	16	1.0
Red Oak	30739000	C	8	-100	122	11.1	228	51	4.0
County-Other	30996070	C	8	-240	197	19.8	368	83	6.2
Manufacturing	31001070	C	8	-18	73	10.1	150	37	3.1
Steam Electric Power	31002070	C	8	-15,000	3,715	790.8	6,947	1,597	220.3
County-Other	30996074	C	2	-12	10	1.0	21	5	0.3
Fairfield	30289000	C	8	-50	52	4.9	107	27	1.7
Wortham	30990000	C	8	-312	322	30.5	602	135	10.4
Steam Electric Power	31002081	C	8	-10,796	2,674	569.1	5,000	1,150	158.5
Bells	30071000	C	2	-82	85	8.0	174	43	2.7
Collinsville	30187000	C	8	-73	75	7.1	154	38	2.4
Gunter	30370000	C	8	-124	128	12.1	239	54	4.1
Howe	30419000	C	2	-223	230	21.8	430	97	7.4
Howe	30419000	C	8	-50	52	4.9	107	27	1.7
Luella	30548000	C	2	-71	73	6.9	150	37	2.4
Pottsboro	30719000	C	2	-101	104	9.9	194	44	3.4
Southmayd	30847000	C	2	-129	133	12.6	249	56	4.3
Tioga	30902000	C	8	-45	46	4.4	94	23	1.5
Tom Bean	30904000	C	2	-125	129	12.2	241	54	4.2
Van Alstyne	30925000	C	8	-685	833	76.1	1,558	350	27.2
Whitesboro	30967000	C	2	-526	543	51.5	1,015	228	17.5
Whitesboro	30967000	C	8	-17	18	1.7	37	9	0.6
Whitewright	30968000	C	2	-160	165	15.7	309	69	5.3
County-Other	30996091	C	2	-933	765	77.0	1,431	321	24.2
County-Other	30996091	C	8	-253	208	20.9	389	87	6.6

TWDB Table 10, Year 2030: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Manufacturing	31001091	C	2	-2,331	9,411	1,310.4	17,599	4,047	398.5
Manufacturing	31001091	C	8	-6	24	3.4	49	12	1.0
Mining	31003091	C	2	-362	59	11.8	121	30	2.7
Mining	31003091	C	8	-180	29	5.9	59	15	1.3
Irrigation	31004091	C	8	-360	9	0.3	18	5	0.1
Malakoff	30557000	C	8	-48	50	4.7	103	26	1.6
Crandall	30210000	C	8	-304	370	33.8	692	155	12.1
Forney	30304000	C	8	-1,835	2,819	246.4	5,272	1,212	93.1
Kaufman	30459000	C	8	-675	1,037	90.7	1,939	446	34.3
Oak Grove	30646000	C	8	-50	52	4.9	107	27	1.7
County-Other	30996129	C	5	-59	48	4.9	98	24	1.5
County-Other	30996129	C	8	-2,054	1,685	169.6	3,151	725	53.3
Manufacturing	31001129	C	8	-136	500	69.6	935	210	21.2
Steam Electric Power	31002129	C	8	-10,000	2,477	527.2	4,632	1,065	146.9
Mining	31003129	C	8	-61	10	2.0	21	5	0.5
Irrigation	31004129	C	8	-338	8	0.2	16	4	0.1
Mining	31003175	C	8	-20	3	0.7	6	2	0.1
Aledo	30009000	C	8	-611	630	59.8	1,178	265	20.3
Annetta	30030000	C	8	-369	381	36.1	712	160	12.3
Azle	30046000	C	8	-50	77	6.7	158	39	2.5
Briar	30110000	C	8	-15	18	1.7	37	9	0.6
Hudson Oaks	30422000	C	8	-1,645	2,527	220.9	4,725	1,087	83.5
Reno	30744000	C	8	-50	52	4.9	107	27	1.7
Springtown	30853000	C	8	-80	83	7.8	170	42	2.7
Weatherford	30944000	C	8	-6,854	11,202	969.2	20,836	4,817	371.2
Weatherford	30944000	C	12	-353	577	49.9	1,079	242	19.1
Willow Park	30973000	C	8	-1,219	1,482	135.5	2,771	637	48.3

TWDB Table 10, Year 2030: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
County-Other	30996184	C	8	-2,556	2,097	211.1	3,921	902	66.3
County-Other	30996184	C	12	-1,266	1,039	104.5	1,943	447	32.8
Manufacturing	31001184	C	8	-101	566	78.9	1,058	238	24.0
Manufacturing	31001184	C	12	-64	359	50.0	671	151	15.2
Steam Electric Power	31002184	C	8	-9,823	2,433	517.9	4,550	1,046	144.3
Mining	31003184	C	8	-25	4	0.8	8	2	0.2
Mining	31003184	C	12	-2,297	373	74.8	698	157	17.1
Heath	30388000	C	8	-754	1,158	101.3	2,165	498	38.3
Rockwall	30766000	C	8	-6,630	10,836	937.5	20,155	4,659	359.1
Rowlett	30777000	C	8	-1,789	2,924	253.0	5,468	1,257	96.9
Royse City	30779000	C	5	-1,760	2,704	236.4	5,056	1,163	89.3
Wylie	30991000	C	8	-5	6	0.5	12	3	0.2
Manufacturing	31001199	C	8	-2	9	1.3	18	5	0.4
Steam Electric Power	31002199	C	8	-6,000	1,486	316.3	2,779	639	88.1
Arlington	30037000	C	8	-7,465	16,633	1,376.0	30,937	7,152	558.0
Azle	30046000	C	8	-277	426	37.2	797	179	14.1
Bedford	30067000	C	8	-897	1,466	126.8	2,741	630	48.6
Blue Mound	30093000	C	8	-32	33	3.1	68	17	1.1
Briar	30110000	C	8	-81	98	9.0	201	50	3.2
Burleson	30131000	C	8	-522	620	57.0	1,159	260	20.2
Colleyville	30186000	C	8	-1,068	1,269	116.5	2,373	546	41.3
Crowley	30218000	C	8	-1,598	2,455	214.6	4,591	1,056	81.1
Dalworthington Gard.	30228000	C	8	-974	1,005	95.3	1,879	432	32.4
Edgecliff	30267000	C	8	-541	558	52.9	1,043	234	18.0
Euless	30285000	C	8	-860	1,406	121.6	2,629	605	46.6
Everman	30287000	C	8	-602	732	66.9	1,369	307	23.9
Forest Hill	30303000	C	8	-1,907	2,929	256.1	5,477	1,259	96.8

TWDB Table 10, Year 2030: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Fort Worth	30311000	C	8	-13,464	30,000	2,481.7	55,800	12,900	1,006.4
Grand Prairie	30353000	C	8	-8,439	13,793	1,193.3	25,655	5,931	457.0
Grapevine	30360000	C	8	-909	1,486	128.5	2,779	639	49.2
Haltom City	30375000	C	8	-6,700	7,958	731.1	14,881	3,422	259.1
Haslet	30384000	C	8	-410	423	40.1	791	178	13.6
Hurst	30428000	C	8	-6,641	7,888	724.7	14,751	3,392	256.8
Keller	30461000	C	8	-7,656	9,094	835.5	17,006	3,910	296.1
Kennedale	30465000	C	8	-2,293	3,522	308.0	6,586	1,514	116.4
Lake Worth Village	30501000	C	8	-822	1,000	91.4	1,870	420	32.6
Mansfield	30559000	C	8	-968	1,582	136.9	2,958	680	52.4
North Richland Hills	30642000	C	8	-8,654	14,144	1,223.7	26,308	6,082	468.7
Pantego	30677000	C	8	-411	424	40.2	793	178	13.7
Pelican Bay	30688000	C	8	-323	333	31.6	623	140	10.7
Richland Hills	30748000	C	8	-1,723	2,647	231.4	4,950	1,138	87.4
River Oaks	30756000	C	8	-92	112	10.2	209	47	3.6
Saginaw	30785000	C	8	-3,062	4,704	411.2	8,796	2,023	155.4
Sansom Park Village	30802000	C	8	-502	518	49.1	969	218	16.7
Southlake	30846000	C	8	-10,722	12,736	1,170.0	23,689	5,476	414.7
Watauga	30942000	C	8	-4,543	5,396	495.8	10,091	2,320	175.7
Westworth Village	30959000	C	8	-300	310	29.4	580	130	10.0
White Settlement	30964000	C	8	-1,939	2,979	260.4	5,571	1,281	98.4
County-Other	30996220	C	8	-11,149	9,147	920.6	17,105	3,933	289.2
Manufacturing	31001220	C	8	-6,016	29,145	4,058.3	54,210	12,532	1,234.2
Steam Electric Power	31002220	C	8	-960	238	50.6	445	100	14.1
Alvord	30019000	C	8	-36	37	3.5	76	19	1.2
Aurora	30044000	C	8	-86	89	8.4	182	45	2.9
Boyd	30103000	C	8	-264	272	25.8	509	114	8.8

TWDB Table 10, Year 2030: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Briar	30110000	C	8	-20	24	2.2	49	12	0.8
Bridgeport	30113000	C	8	-102	124	11.3	232	52	4.0
Chico	30163000	C	8	-23	24	2.3	49	12	0.8
Decatur	30235000	C	8	-133	162	14.8	303	68	5.3
Newark	30635000	C	8	-127	131	12.4	245	55	4.2
Rhome	30745000	C	8	-100	103	9.8	193	43	3.3
County-Other	30996249	C	8	-3,140	2,576	259.3	4,817	1,108	81.4
Steam Electric Power	31002249	C	8	-11,200	2,774	590.4	5,187	1,193	164.5

TWDB Table 10, Year 2040: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Allen	30012000	C	8	-16,183	26,450	2,288.4	49,462	11,374	876.5
Blue Ridge	30094000	C	8	-23	24	2.3	48	13	0.8
Celina	30154000	C	8	-7,237	8,596	789.7	15,989	3,696	279.9
Fairview	30291000	C	8	-775	942	86.1	1,762	405	30.7
Farmersville	30294000	C	8	-526	640	58.5	1,197	275	20.9
Frisco	30319000	C	8	-32,793	53,598	4,637.2	100,228	23,047	1,776.0
Garland	30334000	C	8	-2	3	0.3	6	2	0.1
Lucas	30547000	C	8	-669	813	74.4	1,520	350	26.5
Mckinney	30577000	C	8	-35,858	58,607	5,070.6	109,595	25,201	1,942.0
Melissa	30584000	C	8	-68	70	6.7	141	38	2.3
Murphy	30619000	C	8	-1,664	2,556	223.5	4,754	1,099	84.4
New Hope	30631000	C	8	-44	45	4.3	91	24	1.5
Parker	30679000	C	8	-4,028	4,784	439.6	8,898	2,057	155.8
Plano	30704000	C	8	-38,558	85,914	7,107.2	160,659	36,943	2,882.1
Princeton	30724000	C	8	-545	663	60.6	1,240	285	21.6
Prosper	30726000	C	8	-4,260	6,544	572.1	12,172	2,814	216.2
Richardson	30747000	C	8	-2,330	3,808	329.5	7,083	1,637	126.2
Royse City	30779000	C	5	-81	96	8.8	194	52	3.1
Sachse	30784000	C	8	-69	106	9.3	198	46	3.5
Wylie	30991000	C	8	-4,252	6,950	601.3	12,927	2,989	230.3
County-Other	30996043	C	5	-966	793	79.8	1,483	341	25.1
County-Other	30996043	C	8	-16,125	13,229	1,331.5	24,738	5,688	418.2
Manufacturing	31001043	C	8	-1,668	6,548	911.8	12,179	2,816	277.3
Steam Electric Power	31002043	C	8	-6,910	1,711	364.3	3,182	736	101.5
Gainesville	30327000	C	8	-2,472	3,797	332.0	7,062	1,633	125.5
Lindsay	30525000	C	8	-82	85	8.0	172	46	2.7
Muenster	30615000	C	8	-159	164	15.6	307	71	5.3
Valley View	30923000	C	8	-94	97	9.2	196	52	3.1

TWDB Table 10, Year 2040: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre -Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
County-Other	30996049	C	2	-96	79	7.9	160	43	2.5
County-Other	30996049	C	8	-633	519	52.3	971	223	16.4
Manufacturing	31001049	C	8	-402	1,262	175.7	2,347	543	53.4
Irrigation	31004049	C	2	-39	1	0.0	2	1	0.0
Livestock	31005049	C	2	-146	12	0.5	24	6	0.2
Livestock	31005049	C	8	-353	29	1.2	59	16	0.4
Addison	30003000	C	8	-12,907	19,827	1,733.4	37,076	8,526	655.0
Balch Springs	30049000	C	8	-3,459	5,313	464.6	9,882	2,285	175.5
Carrollton	30147000	C	8	-13,777	22,517	1,948.2	42,107	9,682	746.1
Cedar Hill	30151000	C	8	-17,409	28,454	2,461.8	53,209	12,235	942.9
Cockrell Hill	30182000	C	8	-647	668	63.3	1,249	287	21.5
Coppell	30201000	C	8	-11,229	13,338	1,225.4	24,942	5,735	434.3
De Soto	30234000	C	8	-16,477	26,930	2,330.0	50,359	11,580	892.4
Duncanville	30256000	C	8	-9,361	11,119	1,021.5	20,793	4,781	362.0
Farmers Branch	30293000	C	8	-14,547	17,279	1,587.5	32,312	7,430	562.6
Garland	30334000	C	8	-17,935	29,313	2,536.1	54,815	12,605	971.3
Glenn Heights	30344000	C	8	-1,237	1,900	166.1	3,534	817	62.8
Grand Prairie	30353000	C	8	-14,578	23,827	2,061.4	44,556	10,246	789.5
Grapevine	30360000	C	8	-9	15	1.3	30	8	0.5
Hutchins	30429000	C	8	-1,746	2,123	194.1	3,949	913	69.2
Irving	30437000	C	8	-65,202	145,281	12,018.3	274,581	63,924	4,873.6
Lancaster	30509000	C	8	-4,976	5,911	543.0	10,994	2,542	192.4
Lewisville	30519000	C	8	-471	770	66.6	1,440	331	25.5
Mesquite	30592000	C	8	-17,954	29,344	2,538.8	54,873	12,618	972.4
Ovilla	30663000	C	8	-116	141	12.9	264	61	4.6
Richardson	30747000	C	8	-13,615	22,253	1,925.3	41,613	9,569	737.4
Rowlett	30777000	C	8	-6,241	10,200	882.5	19,074	4,386	338.0
Sachse	30784000	C	8	-2,243	3,446	301.2	6,410	1,482	113.8

TWDB Table 10, Year 2040: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Seagoville	30812000	C	8	-4,106	6,307	551.4	11,731	2,712	208.4
Sunnyvale	30871000	C	8	-1,112	1,352	123.6	2,515	581	44.1
Wilmer	30975000	C	8	-255	263	25.0	492	113	8.5
County-Other	30996057	C	8	-90,245	74,040	7,451.6	138,455	31,837	2,340.6
Manufacturing	31001057	C	8	-5,205	21,807	3,036.5	40,779	9,377	923.4
Steam Electric Power	31002057	C	8	-8,454	2,094	445.7	3,895	900	124.2
Mining	31003057	C	8	-4,121	670	134.2	1,253	288	30.6
Argyle	30036000	C	8	-4,060	6,237	545.3	11,601	2,682	206.0
Aubrey	30043000	C	8	-679	701	66.4	1,311	301	22.6
Bartonville	30058000	C	8	-2,562	3,936	344.1	7,321	1,692	130.0
Carrollton	30147000	C	8	-13,775	22,514	1,947.9	42,101	9,681	746.0
Copper Canyon	30202000	C	8	-1,433	1,742	159.3	3,240	749	56.8
Corinth	30204000	C	8	-6,407	7,610	699.2	14,155	3,272	247.8
Denton	30240000	C	8	-26,510	43,329	3,748.7	81,025	18,631	1,435.8
Double Oak	30251000	C	8	-924	953	90.4	1,782	410	30.7
Flower Mound	30301000	C	8	-29,968	48,980	4,237.7	91,593	21,061	1,623.0
Frisco	30319000	C	8	-328	536	46.4	1,002	230	17.8
Hebron	30390000	C	8	-668	689	65.4	1,288	296	22.2
Hickory Creek	30399000	C	8	-1,388	1,688	154.3	3,140	726	55.0
Highland Village	30403000	C	8	-3,253	4,997	436.9	9,294	2,149	165.1
Justin	30456000	C	8	-2,084	3,201	279.9	5,954	1,376	105.8
Krugerville	30481000	C	8	-318	328	31.1	613	141	10.6
Krum	30482000	C	8	-1,024	1,245	113.8	2,316	535	40.6
Lake Dallas	30498000	C	8	-1,659	2,548	222.8	4,739	1,096	84.2
Lewisville	30519000	C	8	-41,160	67,273	5,820.3	125,801	28,927	2,229.2
Little Elm	30527000	C	8	-1,714	2,633	230.2	4,897	1,132	87.0
Oak Point	30648000	C	8	-1,654	2,541	222.1	4,726	1,093	83.9
Pilot Point	30695000	C	8	-1,239	1,507	137.7	2,803	648	49.1

TWDB Table 10, Year 2040: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Plano	30704000	C	8	-20	45	3.7	91	24	1.5
Roanoke	30758000	C	8	-751	913	83.5	1,707	393	29.8
Sanger	30801000	C	8	-1,970	3,026	264.6	5,628	1,301	100.0
Shady Shores	30820000	C	8	-732	755	71.6	1,412	325	24.3
Southlake	30846000	C	8	-588	961	83.1	1,797	413	31.8
The Colony	30891000	C	8	-10,694	17,479	1,512.2	32,686	7,516	579.2
Trophy Club	30911000	C	8	-5,289	8,125	710.3	15,113	3,494	268.4
Crossroads	30996061	C	8	-1,661	1,363	137.2	2,535	586	43.1
Lincoln Park	30996061	C	8	-300	246	24.8	460	106	7.8
Northlake	30996061	C	8	-5,674	4,655	468.5	8,658	2,002	147.2
Ponder	30996061	C	8	-1,204	988	99.4	1,848	425	31.2
County-Other	30996061	C	8	-32,878	26,974	2,714.8	50,441	11,599	852.7
Manufacturing	31001061	C	8	-1,366	6,979	971.8	12,981	3,001	295.5
Steam Electric Power	31002061	C	8	-5,500	1,362	290.0	2,533	586	80.8
Cedar Hill	30151000	C	8	-42	69	5.9	139	37	2.3
Ennis	30284000	C	8	-395	607	53.0	1,135	261	20.0
Ferris	30296000	C	8	-45	46	4.4	93	25	1.5
Glenn Heights	30344000	C	8	-268	412	36.0	770	177	13.6
Grand Prairie	30353000	C	8	-30	49	4.2	99	26	1.6
Italy	30438000	C	8	-454	468	44.4	875	201	15.1
Mansfield	30559000	C	8	-56	92	7.9	186	50	3.0
Maypearl	30573000	C	8	-81	84	7.9	170	45	2.7
Midlothian	30596000	C	8	-445	684	59.8	1,279	294	22.6
Milford	30598000	C	8	-87	90	8.5	182	49	2.9
Oak Leaf	30647000	C	8	-278	287	27.2	537	123	9.2
Ovilla	30663000	C	8	-978	1,189	108.7	2,212	511	38.8
Palmer	30671000	C	8	-350	361	34.2	675	155	11.6
Pecan Hill	30686000	C	8	-37	38	3.6	77	21	1.2

TWDB Table 10, Year 2040: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Red Oak	30739000	C	8	-142	173	15.8	324	74	5.6
Waxahachie	30943000	C	8	-230	273	25.1	511	117	8.9
County-Other	30996070	C	8	-508	417	41.9	780	179	13.2
Manufacturing	31001070	C	8	-172	696	96.8	1,302	299	29.5
Steam Electric Power	31002070	C	8	-18,000	4,458	948.9	8,292	1,917	264.3
County-Other	30996074	C	2	-13	11	1.1	22	6	0.3
Fairfield	30289000	C	8	-69	84	7.7	170	45	2.7
Wortham	30990000	C	8	-320	330	31.3	617	142	10.6
Steam Electric Power	31002081	C	8	-14,988	3,712	790.1	6,904	1,596	220.1
Bells	30071000	C	2	-93	96	9.1	194	52	3.1
Collinsville	30187000	C	8	-73	75	7.1	152	41	2.4
Gunter	30370000	C	8	-141	145	13.8	271	62	4.7
Howe	30419000	C	2	-222	229	21.7	428	98	7.4
Howe	30419000	C	8	-49	51	4.8	103	28	1.6
Luella	30548000	C	2	-73	75	7.1	152	41	2.4
Pottsboro	30719000	C	2	-148	153	14.5	286	66	4.9
Southmayd	30847000	C	2	-136	140	13.3	262	60	4.5
Tioga	30902000	C	8	-51	53	5.0	107	29	1.7
Tom Bean	30904000	C	2	-127	131	12.4	245	56	4.2
Van Alstyne	30925000	C	8	-886	1,077	98.5	2,003	463	35.1
Whitesboro	30967000	C	2	-559	577	54.7	1,079	248	18.6
Whitesboro	30967000	C	8	-19	20	1.9	40	11	0.6
Whitewright	30968000	C	2	-165	170	16.1	318	73	5.5
County-Other	30996091	C	2	-667	547	55.1	1,023	235	17.3
County-Other	30996091	C	8	-196	161	16.2	301	69	5.1
Manufacturing	31001091	C	2	-2,946	11,894	1,656.1	22,242	5,114	503.7
Manufacturing	31001091	C	8	-7	28	3.9	57	15	1.2
Mining	31003091	C	2	-373	61	12.1	123	33	2.8

TWDB Table 10, Year 2040: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Mining	31003091	C	8	-179	29	5.8	59	16	1.3
Irrigation	31004091	C	8	-448	11	0.3	22	6	0.1
Malakoff	30557000	C	8	-46	47	4.5	95	25	1.5
Crandall	30210000	C	8	-395	480	43.9	898	206	15.7
Forney	30304000	C	8	-2,850	3,385	311.0	6,296	1,456	110.2
Kaufman	30459000	C	8	-850	1,306	114.2	2,429	562	43.1
Oak Grove	30646000	C	8	-59	61	5.8	123	33	2.0
County-Other	30996129	C	5	-81	66	6.7	133	36	2.1
County-Other	30996129	C	8	-2,626	2,154	216.8	4,006	926	68.1
Manufacturing	31001129	C	8	-176	647	90.1	1,210	278	27.4
Steam Electric Power	31002129	C	8	-10,000	2,477	527.2	4,607	1,065	146.9
Mining	31003129	C	8	-76	12	2.5	24	6	0.6
Irrigation	31004129	C	8	-319	8	0.2	16	4	0.1
Mining	31003175	C	8	-31	5	1.0	10	3	0.2
Aledo	30009000	C	8	-732	890	81.4	1,664	383	29.0
Annetta	30030000	C	8	-549	566	53.7	1,058	243	18.3
Azle	30046000	C	8	-82	126	11.0	236	54	4.2
Briar	30110000	C	8	-26	32	2.9	65	17	1.0
Hudson Oaks	30422000	C	8	-1,645	2,527	220.9	4,700	1,087	83.5
Reno	30744000	C	8	-89	92	8.7	186	50	3.0
Springtown	30853000	C	8	-139	169	15.5	316	73	5.5
Weatherford	30944000	C	8	-9,810	16,034	1,387.2	29,984	6,895	531.3
Weatherford	30944000	C	12	-509	832	72.0	1,556	358	27.6
Willow Park	30973000	C	8	-1,810	2,780	243.1	5,171	1,195	91.9
County-Other	30996184	C	8	-2,046	1,679	168.9	3,123	722	53.1
County-Other	30996184	C	12	-853	700	70.4	1,309	301	22.1
Manufacturing	31001184	C	8	-143	802	111.7	1,500	345	34.0
Manufacturing	31001184	C	12	-84	471	65.6	881	203	19.9

TWDB Table 10, Year 2040: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Steam Electric Power	31002184	C	8	-11,837	2,932	624.0	5,454	1,261	173.8
Mining	31003184	C	8	-27	4	0.9	8	2	0.2
Mining	31003184	C	12	-2,618	425	85.3	795	183	19.4
Heath	30388000	C	8	-1,138	1,748	152.8	3,251	752	57.8
Rockwall	30766000	C	8	-9,875	16,140	1,396.4	30,182	6,940	534.8
Rowlett	30777000	C	8	-2,794	4,567	395.1	8,495	1,964	151.3
Royse City	30779000	C	5	-2,439	2,897	266.2	5,388	1,246	94.3
Wylie	30991000	C	8	-6	10	0.8	20	5	0.3
County-Other	30996199	C	5	-53	43	4.4	87	23	1.4
Manufacturing	31001199	C	8	-2	9	1.3	18	5	0.4
Steam Electric Power	31002199	C	8	-6,000	1,486	316.3	2,764	639	88.1
Arlington	30037000	C	8	-12,009	26,758	2,213.6	50,037	11,506	897.6
Azle	30046000	C	8	-466	716	62.6	1,339	308	23.6
Bedford	30067000	C	8	-1,406	2,298	198.8	4,274	988	76.1
Blue Mound	30093000	C	8	-52	54	5.1	109	29	1.7
Briar	30110000	C	8	-133	162	14.8	303	70	5.3
Burleson	30131000	C	8	-525	624	57.3	1,167	268	20.3
Colleyville	30186000	C	8	-1,743	2,070	190.2	3,850	890	67.4
Crowley	30218000	C	8	-1,802	2,768	242.0	5,148	1,190	91.5
Dalworthington Gard.	30228000	C	8	-1,068	1,102	104.5	2,050	474	35.5
Edgecliff	30267000	C	8	-528	545	51.7	1,019	234	17.6
Euless	30285000	C	8	-1,356	2,216	191.7	4,122	953	73.4
Everman	30287000	C	8	-573	697	63.7	1,303	300	22.7
Forest Hill	30303000	C	8	-1,836	2,820	246.6	5,245	1,213	93.2
Fort Worth	30311000	C	8	-22,503	50,140	4,147.9	93,762	21,560	1,682.0
Grand Prairie	30353000	C	8	-8,461	13,829	1,196.5	25,860	5,946	458.2
Grapevine	30360000	C	8	-1,489	2,434	210.6	4,527	1,047	80.6
Haltom City	30375000	C	8	-6,584	7,821	718.5	14,547	3,363	254.6

TWDB Table 10, Year 2040: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Haslet	30384000	C	8	-432	446	42.3	834	192	14.4
Hurst	30428000	C	8	-6,579	7,815	717.9	14,536	3,360	254.4
Keller	30461000	C	8	-7,746	9,201	845.3	17,114	3,956	299.6
Kennedale	30465000	C	8	-2,826	4,341	379.5	8,074	1,867	143.4
Lake Worth Village	30501000	C	8	-824	1,002	91.6	1,864	431	32.7
Mansfield	30559000	C	8	-2,021	3,303	285.8	6,144	1,420	109.5
North Richland Hills	30642000	C	8	-10,247	16,748	1,449.0	31,319	7,202	555.0
Pantego	30677000	C	8	-401	414	39.2	774	178	13.3
Pelican Bay	30688000	C	8	-358	369	35.0	690	159	11.9
Richland Hills	30748000	C	8	-2,074	3,186	278.5	5,926	1,370	105.3
River Oaks	30756000	C	8	-144	175	16.0	327	75	5.7
Saginaw	30785000	C	8	-3,284	5,045	441.0	9,384	2,169	166.7
Sansom Park Village	30802000	C	8	-488	503	47.7	941	216	16.2
Southlake	30846000	C	8	-12,827	20,965	1,813.8	39,205	9,015	694.7
Watauga	30942000	C	8	-4,757	5,650	519.1	10,509	2,430	184.0
Westworth Village	30959000	C	8	-288	297	28.2	555	128	9.6
White Settlement	30964000	C	8	-1,903	2,923	255.6	5,437	1,257	96.6
County-Other	30996220	C	8	-20,402	16,738	1,684.6	31,300	7,197	529.1
Manufacturing	31001220	C	8	-11,050	53,533	7,454.2	100,107	23,019	2,266.9
Steam Electric Power	31002220	C	8	-1,807	448	95.3	838	193	26.5
Alvord	30019000	C	8	-42	43	4.1	87	23	1.4
Aurora	30044000	C	8	-81	84	7.9	170	45	2.7
Boyd	30103000	C	8	-247	255	24.2	477	110	8.2
Briar	30110000	C	8	-32	39	3.6	79	21	1.3
Bridgeport	30113000	C	8	-178	216	19.8	404	93	7.1
Chico	30163000	C	8	-27	28	2.6	57	15	0.9
Decatur	30235000	C	8	-212	258	23.6	482	111	8.4
Newark	30635000	C	8	-142	147	13.9	275	63	4.7

TWDB Table 10, Year 2040: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Rhome	30745000	C	8	-116	120	11.4	224	52	3.9
County-Other	30996249	C	8	-3,993	3,276	329.7	6,093	1,409	103.6
Steam Electric Power	31002249	C	8	-11,200	2,774	590.4	5,160	1,193	164.5

TWDB Table 10, Year 2050: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Allen	30012000	C	8	-18,020	29,452	2,548.2	55,075	12,664	975.9
Blue Ridge	30094000	C	8	-24	25	2.3	43	8	0.8
Celina	30154000	C	8	-8,297	9,855	905.4	18,330	4,238	320.9
Dallas	30227000	C	8	-127	283	23.4	521	119	9.5
Fairview	30291000	C	8	-973	1,183	108.2	2,200	509	38.6
Farmersville	30294000	C	8	-643	782	71.5	1,439	328	25.5
Frisco	30319000	C	8	-45,157	100,617	8,323.6	189,160	44,271	3,375.3
Garland	30334000	C	8	-4	7	0.6	12	2	0.2
Lucas	30547000	C	8	-829	1,008	92.2	1,875	433	32.9
Mckinney	30577000	C	8	-46,021	102,542	8,482.8	192,779	45,118	3,439.9
Melissa	30584000	C	8	-76	78	7.4	134	26	2.5
Murphy	30619000	C	8	-2,014	3,094	270.5	5,755	1,330	102.2
New Hope	30631000	C	8	-50	52	4.9	89	17	1.7
Parker	30679000	C	8	-5,746	6,825	627.0	12,695	2,935	222.2
Plano	30704000	C	8	-42,371	94,410	7,810.0	176,547	40,596	3,167.1
Princeton	30724000	C	8	-625	760	69.5	1,398	319	24.8
Prosper	30726000	C	8	-5,349	6,354	583.7	11,818	2,732	206.9
Richardson	30747000	C	8	-2,761	4,513	390.4	8,394	1,941	149.5
Royse City	30779000	C	5	-103	122	11.2	224	51	4.0
Sachse	30784000	C	8	-87	103	9.5	190	43	3.4
Wylie	30991000	C	8	-5,839	9,543	825.7	17,750	4,103	316.2
County-Other	30996043	C	5	-997	818	82.3	1,505	344	25.9
County-Other	30996043	C	8	-16,459	13,504	1,359.0	25,252	5,807	426.9
Manufacturing	31001043	C	8	-2,069	8,123	1,131.1	15,109	3,493	344.0
Steam Electric Power	31002043	C	8	-7,102	1,759	374.4	3,272	756	104.3
Gainesville	30327000	C	8	-2,715	4,171	364.6	7,758	1,794	137.8
Lindsay	30525000	C	8	-88	91	8.6	157	30	2.9
Muenster	30615000	C	8	-172	177	16.8	326	74	5.7

TWDB Table 10, Year 2050: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Valley View	30923000	C	8	-113	117	11.1	215	49	3.8
County-Other	30996049	C	2	-91	75	7.5	129	25	2.4
County-Other	30996049	C	8	-599	491	49.5	903	206	15.5
Manufacturing	31001049	C	8	-464	1,456	202.8	2,708	626	61.7
Irrigation	31004049	C	2	-33	1	0.0	2	0	0.0
Livestock	31005049	C	2	-146	12	0.5	21	4	0.2
Livestock	31005049	C	8	-353	29	1.2	50	10	0.4
Addison	30003000	C	8	-13,650	20,968	1,833.2	39,210	9,016	692.7
Balch Springs	30049000	C	8	-3,459	5,313	464.6	9,882	2,285	175.5
Carrollton	30147000	C	8	-12,896	21,077	1,823.6	39,414	9,063	698.4
Cedar Hill	30151000	C	8	-17,706	28,939	2,503.8	54,116	12,444	958.9
Cockrell Hill	30182000	C	8	-647	668	63.3	1,229	281	21.5
Combine	30193000	C	8	-2	2	0.2	3	1	0.1
Coppell	30201000	C	8	-11,513	13,675	1,256.4	25,572	5,880	445.2
Dallas	30227000	C	8	-3,440	7,665	634.1	14,257	3,296	257.1
De Soto	30234000	C	8	-18,039	29,483	2,550.9	55,133	12,678	977.0
Duncanville	30256000	C	8	-9,361	11,119	1,021.5	20,793	4,781	362.0
Farmers Branch	30293000	C	8	-15,803	18,771	1,724.5	35,102	8,072	611.2
Garland	30334000	C	8	-19,708	32,211	2,786.9	60,235	13,851	1,067.4
Glenn Heights	30344000	C	8	-1,386	2,129	186.1	3,960	915	70.3
Grand Prairie	30353000	C	8	-14,229	23,256	2,012.1	43,489	10,000	770.6
Grapevine	30360000	C	8	-10	16	1.4	28	5	0.5
Hutchins	30429000	C	8	-2,129	2,589	236.7	4,816	1,113	84.4
Irving	30437000	C	8	-70,026	156,029	12,907.5	293,335	68,653	5,234.2
Lancaster	30509000	C	8	-4,797	5,698	523.5	10,598	2,450	185.5
Lewisville	30519000	C	8	-534	873	75.5	1,606	367	28.9
Mesquite	30592000	C	8	-19,371	31,660	2,739.2	59,204	13,614	1,049.1
Ovilla	30663000	C	8	-128	156	14.2	287	66	5.1

TWDB Table 10, Year 2050: Social and Economic Impacts of Not Meeting Needs by Basin

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Richardson	30747000	C	8	-15,312	25,026	2,165.2	46,799	10,761	829.3
Rowlett	30777000	C	8	-7,466	12,203	1,055.8	22,820	5,247	404.4
Sachse	30784000	C	8	-2,633	3,128	287.3	5,818	1,345	101.8
Seagoville	30812000	C	8	-4,280	5,084	467.1	9,456	2,186	165.5
Sunnyvale	30871000	C	8	-1,233	1,499	137.1	2,788	645	48.9
Wilmer	30975000	C	8	-255	263	25.0	484	110	8.5
County-Other	30996057	C	8	-119,173	97,773	9,840.2	182,836	42,042	3,090.8
Manufacturing	31001057	C	8	-7,175	30,060	4,185.7	56,212	12,926	1,272.9
Steam Electric Power	31002057	C	8	-17,978	4,453	947.8	8,283	1,915	264.0
Mining	31003057	C	8	-4,981	809	162.2	1,489	340	37.0
Argyle	30036000	C	8	-3,985	6,121	535.2	11,385	2,632	202.2
Aubrey	30043000	C	8	-1,229	1,494	136.6	2,779	642	48.7
Bartonville	30058000	C	8	-2,681	4,118	360.1	7,659	1,771	136.1
Carrollton	30147000	C	8	-13,199	21,573	1,866.4	40,342	9,276	714.8
Copper Canyon	30202000	C	8	-1,501	1,825	166.9	3,395	785	59.5
Corinth	30204000	C	8	-6,429	7,636	701.6	14,203	3,283	248.6
Dallas	30227000	C	8	-91	203	16.8	374	85	6.8
Denton	30240000	C	8	-36,670	81,707	6,759.2	152,792	35,134	2,740.9
Double Oak	30251000	C	8	-933	963	91.3	1,772	404	31.0
Flower Mound	30301000	C	8	-31,448	51,399	4,447.0	96,116	22,102	1,703.2
Frisco	30319000	C	8	-387	862	71.3	1,586	362	28.9
Hebron	30390000	C	8	-780	805	76.3	1,481	338	25.9
Hickory Creek	30399000	C	8	-1,539	1,871	171.1	3,480	805	61.0
Highland Village	30403000	C	8	-3,353	5,151	450.3	9,581	2,215	170.2
Justin	30456000	C	8	-2,497	3,836	335.4	7,135	1,649	126.7
Krugerville	30481000	C	8	-362	373	35.4	686	157	12.0
Krum	30482000	C	8	-1,167	1,419	129.7	2,639	610	46.3
Lake Dallas	30498000	C	8	-1,656	2,544	222.4	4,732	1,094	84.0

TWDB Table 10, Year 2050: Social and Economic Impacts of Not Meeting Needs by Basin

Water User Group Name	Water User Group Identifier	Regional Water Planning Group	Basin	Value of Need (Acre-Feet)	Impact of Need on Employment	Impact of Need on Gross Business Output in 1999 US Dollars (Millions)	Impact of Need on Population	Impact of Need on School Enrollment	Impact of Need on Income in 1999 US Dollars (Millions)
Lewisville	30519000	C	8	-42,254	69,061	5,975.0	129,144	29,696	2,288.4
Little Elm	30527000	C	8	-1,835	2,819	246.4	5,243	1,212	93.1
Oak Point	30648000	C	8	-1,830	2,811	245.8	5,228	1,209	92.9
Pilot Point	30695000	C	8	-1,465	2,250	196.8	4,185	968	74.3
Plano	30704000	C	8	-27	60	5.0	103	20	2.0
Roanoke	30758000	C	8	-893	1,086	99.3	2,020	467	35.4
Sanger	30801000	C	8	-2,406	3,696	323.1	6,875	1,589	122.1
Shady Shores	30820000	C	8	-717	740	70.2	1,362	311	23.8
Southlake	30846000	C	8	-745	1,218	105.3	2,265	524	40.3
The Colony	30891000	C	8	-10,441	17,065	1,476.4	31,912	7,338	565.5
Trophy Club	30911000	C	8	-6,288	9,659	844.5	17,966	4,153	319.1
Crossroads	30996061	C	8	-2,964	2,432	244.7	4,524	1,046	76.9
Lincoln Park	30996061	C	8	-384	315	31.7	580	132	10.0
Northlake	30996061	C	8	-7,354	6,033	607.2	11,221	2,594	190.7
Ponder	30996061	C	8	-1,337	1,097	110.4	2,040	472	34.7
County-Other	30996061	C	8	-37,323	30,621	3,081.8	57,261	13,167	968.0
Manufacturing	31001061	C	8	-1,647	8,415	1,171.8	15,652	3,618	356.3
Steam Electric Power	31002061	C	8	-5,500	1,362	290.0	2,533	586	80.8
Mining	31003061	C	8	-16	3	0.5	5	1	0.1
Cedar Hill	30151000	C	8	-47	77	6.6	132	25	2.5
Ennis	30284000	C	8	-876	1,346	117.6	2,504	579	44.5
Ferris	30296000	C	8	-54	56	5.3	96	18	1.8
Glenn Heights	30344000	C	8	-278	427	37.3	786	179	14.1
Grand Prairie	30353000	C	8	-29	47	4.1	81	16	1.6
Italy	30438000	C	8	-454	468	44.4	861	197	15.1
Mansfield	30559000	C	8	-88	144	12.4	265	60	4.8
Maypearl	30573000	C	8	-93	96	9.1	165	32	3.1
Midlothian	30596000	C	8	-535	822	71.9	1,512	345	27.2

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Milford	30598000	C	8	-89	92	8.7	158	30	3.0
Oak Leaf	30647000	C	8	-302	312	29.5	574	131	10.0
Ovilla	30663000	C	8	-1,010	1,228	112.3	2,284	528	40.0
Palmer	30671000	C	8	-390	402	38.2	740	169	13.0
Pecan Hill	30686000	C	8	-44	45	4.3	77	15	1.5
Red Oak	30739000	C	8	-182	280	24.4	515	118	9.2
Waxahachie	30943000	C	8	-655	778	71.5	1,432	327	25.3
County-Other	30996070	C	8	-740	607	61.1	1,117	255	19.2
Manufacturing	31001070	C	8	-400	1,617	225.2	3,008	695	68.5
Steam Electric Power	31002070	C	8	-18,000	4,458	948.9	8,292	1,917	264.3
Fairfield	30289000	C	8	-89	108	9.9	199	45	3.5
Wortham	30990000	C	8	-331	342	32.4	629	144	11.0
Steam Electric Power	31002081	C	8	-14,988	3,712	790.1	6,904	1,596	220.1
Bells	30071000	C	2	-105	108	10.3	199	45	3.5
Collinsville	30187000	C	8	-73	75	7.1	129	25	2.4
Gunter	30370000	C	8	-158	163	15.5	300	68	5.3
Howe	30419000	C	2	-220	227	21.5	418	95	7.3
Howe	30419000	C	8	-48	50	4.7	86	17	1.6
Luella	30548000	C	2	-76	78	7.4	134	26	2.5
Pottsboro	30719000	C	2	-198	204	19.4	375	86	6.6
Southmayd	30847000	C	2	-143	148	14.0	272	62	4.8
Tioga	30902000	C	8	-57	59	5.6	101	19	1.9
Tom Bean	30904000	C	2	-134	138	13.1	254	58	4.5
Van Alstyne	30925000	C	8	-1,132	1,376	125.8	2,559	592	44.9
Whitesboro	30967000	C	2	-593	612	58.0	1,126	257	19.7
Whitesboro	30967000	C	8	-20	21	2.0	36	7	0.7
Whitewright	30968000	C	2	-170	175	16.6	322	74	5.7
County-Other	30996091	C	2	-83	68	6.9	117	22	2.2

TWDB Table 10, Year 2050: Social and Economic Impacts of Not Meeting Needs by Basin

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County-Other	30996091	C	8	-69	57	5.7	98	19	1.8
Manufacturing	31001091	C	2	-3,795	15,321	2,133.4	28,650	6,588	648.8
Manufacturing	31001091	C	8	-8	32	4.5	55	11	1.4
Mining	31003091	C	2	-384	62	12.5	107	20	2.9
Mining	31003091	C	8	-186	30	6.1	52	10	1.4
Irrigation	31004091	C	8	-542	14	0.4	24	5	0.1
Malakoff	30557000	C	8	-58	60	5.7	103	20	1.9
Combine	30193000	C	8	-5	5	0.5	9	2	0.2
Crandall	30210000	C	8	-477	580	53.0	1,067	244	18.9
Dallas	30227000	C	8	-1	2	0.2	3	1	0.1
Forney	30304000	C	8	-3,894	4,625	424.9	8,603	1,989	150.6
Kaufman	30459000	C	8	-985	1,513	132.3	2,814	651	50.0
Oak Grove	30646000	C	8	-64	66	6.3	114	22	2.1
County-Other	30996129	C	5	-92	75	7.6	129	25	2.4
County-Other	30996129	C	8	-2,942	2,414	242.9	4,490	1,038	76.3
Manufacturing	31001129	C	8	-213	783	109.1	1,441	329	33.2
Steam Electric Power	31002129	C	8	-15,000	3,715	790.8	6,910	1,597	220.3
Mining	31003129	C	8	-93	15	3.0	26	5	0.7
Irrigation	31004129	C	8	-301	8	0.2	14	3	0.1
Mining	31003175	C	8	-43	7	1.4	12	2	0.3
Aledo	30009000	C	8	-732	890	81.4	1,638	374	29.0
Annetta	30030000	C	8	-801	974	89.0	1,792	409	31.8
Azle	30046000	C	8	-110	169	14.8	311	71	5.6
Briar	30110000	C	8	-36	44	4.0	76	15	1.4
Hudson Oaks	30422000	C	8	-1,645	2,527	220.9	4,700	1,087	83.5
Reno	30744000	C	8	-112	136	12.4	250	57	4.4
Springtown	30853000	C	8	-184	224	20.5	412	94	7.3
Weatherford	30944000	C	8	-13,778	22,519	1,948.3	42,111	9,683	746.2

TWDB Table 10, Year 2050: Social and Economic Impacts of Not Meeting Needs by Basin

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Weatherford	30944000	C	12	-719	1,175	101.7	2,186	505	38.9
Willow Park	30973000	C	8	-2,637	4,051	354.2	7,535	1,742	133.8
County-Other	30996184	C	8	-720	591	59.5	1,087	248	18.7
Manufacturing	31001184	C	8	-179	1,004	139.8	1,867	432	42.5
Manufacturing	31001184	C	12	-98	550	76.5	1,012	231	23.3
Steam Electric Power	31002184	C	8	-11,850	2,935	624.7	5,459	1,262	174.0
Mining	31003184	C	8	-29	5	0.9	9	2	0.2
Mining	31003184	C	12	-2,979	484	97.0	891	203	22.1
Dallas	30227000	C	8	-1	2	0.2	3	1	0.1
Heath	30388000	C	8	-1,594	2,449	214.1	4,555	1,053	80.9
Rockwall	30766000	C	8	-12,975	21,207	1,834.8	39,657	9,119	702.7
Rowlett	30777000	C	8	-4,048	6,616	572.4	12,306	2,845	219.2
Royse City	30779000	C	5	-3,062	3,637	334.1	6,765	1,564	118.4
Wylie	30991000	C	8	-7	11	1.0	19	4	0.4
County-Other	30996199	C	5	-232	190	19.2	350	80	6.0
County-Other	30996199	C	8	-273	224	22.5	412	94	7.1
Manufacturing	31001199	C	8	-3	14	2.0	24	5	0.6
Steam Electric Power	31002199	C	8	-6,000	1,486	316.3	2,764	639	88.1
Arlington	30037000	C	8	-16,236	36,176	2,992.7	67,649	15,556	1,213.6
Azle	30046000	C	8	-633	972	85.0	1,788	408	32.1
Bedford	30067000	C	8	-1,807	2,953	255.5	5,493	1,270	97.9
Blue Mound	30093000	C	8	-67	69	6.6	119	23	2.2
Briar	30110000	C	8	-178	216	19.8	397	91	7.1
Burleson	30131000	C	8	-528	627	57.6	1,154	263	20.4
Colleyville	30186000	C	8	-2,322	2,758	253.4	5,130	1,186	89.8
Crowley	30218000	C	8	-2,043	3,138	274.4	5,837	1,349	103.7
Dalworthington Gard.	30228000	C	8	-1,177	1,431	130.8	2,662	615	46.7
Edgecliff	30267000	C	8	-518	534	50.7	983	224	17.2

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Euless	30285000	C	8	-1,739	2,842	245.9	5,286	1,222	94.2
Everman	30287000	C	8	-544	661	60.5	1,216	278	21.6
Forest Hill	30303000	C	8	-1,779	2,733	238.9	5,083	1,175	90.3
Fort Worth	30311000	C	8	-30,333	67,587	5,591.1	126,388	29,062	2,267.3
Grand Prairie	30353000	C	8	-8,473	13,848	1,198.1	25,896	5,955	458.9
Grapevine	30360000	C	8	-1,982	3,239	280.3	6,025	1,393	107.3
Haltom City	30375000	C	8	-6,517	7,741	711.2	14,398	3,329	252.0
Haslet	30384000	C	8	-457	472	44.7	868	198	15.2
Hurst	30428000	C	8	-6,515	7,739	711.0	14,395	3,328	252.0
Keller	30461000	C	8	-7,882	9,362	860.1	17,413	4,026	304.8
Kennedale	30465000	C	8	-3,257	5,003	437.4	9,306	2,151	165.3
Lake Worth Village	30501000	C	8	-825	1,003	91.7	1,866	431	32.7
Mansfield	30559000	C	8	-3,221	5,264	455.5	9,791	2,264	174.4
North Richland Hills	30642000	C	8	-11,841	19,353	1,674.4	36,190	8,322	641.3
Pantego	30677000	C	8	-401	414	39.2	762	174	13.3
Pelican Bay	30688000	C	8	-397	410	38.8	754	172	13.2
Richland Hills	30748000	C	8	-2,510	3,856	337.1	7,172	1,658	127.4
River Oaks	30756000	C	8	-183	223	20.3	410	94	7.3
Saginaw	30785000	C	8	-3,519	5,406	472.6	10,055	2,325	178.6
Sansom Park Village	30802000	C	8	-479	494	46.9	909	207	15.9
Southlake	30846000	C	8	-15,383	25,142	2,175.3	47,016	10,811	833.1
Watauga	30942000	C	8	-4,656	5,530	508.1	10,286	2,378	180.1
Westworth Village	30959000	C	8	-277	286	27.1	526	120	9.2
White Settlement	30964000	C	8	-1,850	2,842	248.5	5,286	1,222	93.9
County-Other	30996220	C	8	-19,359	15,883	1,598.5	29,701	6,830	502.1
Manufacturing	31001220	C	8	-16,783	81,308	11,321.7	152,046	34,962	3,443.1
Steam Electric Power	31002220	C	8	-2,347	581	123.7	1,069	244	34.5
Alvord	30019000	C	8	-51	53	5.0	91	17	1.7

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Aurora	30044000	C	8	-82	85	8.0	146	28	2.7
Boyd	30103000	C	8	-242	250	23.7	460	105	8.0
Briar	30110000	C	8	-40	49	4.4	84	16	1.6
Bridgeport	30113000	C	8	-249	303	27.7	558	127	9.9
Chico	30163000	C	8	-29	30	2.8	52	10	1.0
Decatur	30235000	C	8	-277	337	30.8	620	142	11.0
Newark	30635000	C	8	-160	165	15.7	304	69	5.3
Rhome	30745000	C	8	-132	136	12.9	250	57	4.4
County-Other	30996249	C	8	-4,457	3,657	368.0	6,802	1,573	115.6
Steam Electric Power	31002249	C	8	-11,200	2,774	590.4	5,160	1,193	164.5

APPENDIX O

DROUGHT CONTINGENCY MEASURES

APPENDIX O
DROUGHT CONTINGENCY MEASURES

Introduction

Senate Bill 1 required drought contingency planning both on a local and regional basis. Local water supply agencies developed detailed drought contingency plans. Those plans included items as follows:

Public Involvement
Public Education
Coordination with Regional Water Planning Groups
Drought Response Stages
Criteria on Initiation and Termination of Drought Response Stages
Water Management Strategies at 75% and 50% of Normal Flows
Description of the Information Monitored by the Water Supplier
Notification Procedures
Specific Water Supply or Demand Management Measures
Variance Procedures
Enforcement Procedures

Regional plans required identification of all the water sources within the region, drought response triggers and actions initiated by those triggers. These items are included in previous tasks or within the individual local suppliers' drought contingency plans. Texas Water Development Board Table 5 and information from local water suppliers were used to assemble Table O-1, which is attached. For those cities that provided information, Table O-1 identifies by water source possible drought contingency stages and associated actions for each stage.

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
ELM FORK/LAKE GRAPEVINE SYSTEM	DWU	DALLAS	COLLIN, DALLAS, DENTON, KAUFMAN & ROCKWALL	1. Water reservoir levels drop below 65% of capacity. 2. Water demand exceeds 90% of system capacity for 3 consecutive days. 3. A short-term emergency situation occurs.	1. Water reservoir levels drop below 55% of capac ity. 2. Water demand exceeds 90% of system capacity for 5 consecutive days. 3. A short-term emergency situation occurs.	1. Water reservoir levels drop below 55% of capacity. 2. Water demand exceeds 90% of system capacity for 5 consecutive days. 3. A short-term emergency situation occurs.	1. Water reservoir levels drop below 45% of capacity. 2. Water demand exceeds 95% of system capacity for 2 consecutive days. 3. A short-term emergency situation occurs.	1. Water reservoir levels drop below 30% of capacity. 2. Water demand exceeds 98% of system capacity for 1 day. 3. A short-term emergency situation occurs.		**Municipal Gov-** 25% reduction in non-essential use, identify & repair small leaks, and reductions in landscape uses **Residential Actions-** Voluntary reduction in water usage **Commercial Actions-** Voluntary reduction in water usage **Industrial Actions-** Voluntary reduction in water usage	**Municipal Gov-** 50% reduction in non-essential use, landscape uses except for parks and golf courses restricted to watering schedule or off peak hrs. **Residential Actions-** Voluntary- landscape restricted to watering schedule or off peak hrs. Reduced freq. in watering new landscaping. Mandatory- Prohibit excess runoff. **Commercial Actions-** Initial fillings only for fountains; prohibit hosing off of paved areas; limit excessive run-off **Industrial Actions-** Prohibit hosing off of paved areas; limit excessive runoff	**Municipal Gov-** Prohibit non-essential use, landscape uses restricted to watering schedule or off peak hrs. Golf course green & tee box watering restricted to off-peak hours. **Residential Actions-** landscape restricted to watering schedule or off peak hrs. Prohibit draining/filling of pools, permitting of pools, and excess runoff. High vol. users subject to 10% rate increase **Commercial Actions-** landscape restricted to watering schedule or off peak hours, reduce excess runoff, and watering of nursery stock restricted to off-peak hrs. **Industrial Actions-** landscape restricted to watering schedule or off peak hours, reduce the frequency of car washing & excess runoff.	**Municipal Gov-** Prohibit landscape watering. Golf course green & tee box watering restricted to off-peak hours. **Residential Actions-** Prohibit landscape watering and vehicle washing; foundations may be watered for 2 hrs. with a soaker or hand held hose during water schedule or off-peak times; 25% reduction indoor use. **Commercial Actions-** Prohibit landscape watering and vehicle washing **Industrial Actions-** Prohibit landscape watering and vehicle was hing; 25% reduction in indoor water use	
	DWU	ADDISON	DALLAS	Total raw water supply in connected lakes drops below 55% of total conservation storage, demand exceeds 90% of deliverable capacity for three consecutive day, or short term deficiencies in distribution system limit supply capability.	Total raw water supply in connected lakes drops below 50% of total conservation storage, demand exceeds 95% of deliverable capacity for two consecutive day.	Total raw water supply in connected lakes drops below 50% of total conservation storage, demand exceeds 95% of deliverable capacity for two consecutive day.	Total raw water supply in connected lakes drops below 35% of total conservation storage, demand exceeds 95% of deliverable capacity for five consecutive day.	Total raw water supply in connected lakes drops below 20% of total conservation storage, demand exceeds 100% of deliverable capacity for two consecutive day.		The City manager requests voluntary reductions in water use. Notify major water users & work with them to achieve voluntary reduction. Prohibit city government use of water for all non-essential use. Request a reduction in landscape watering by city government.	Begin mandatory water use restrictions as follows: prohibit using water in such a manner as to allow runoff or other water wastes; limit outside watering to the five day schedule provided by the city.	Implement recommended engineering alternatives. Continue actions of the previous stages, but watering is only allowed between 9 pm and 9 am.	Prohibit all commercial and residential landscape watering including golf courses with the following exceptions: nurseries can water stock per watering schedule, public gardens may be watered per schedule, foundations may be watered for 2 hrs with soaker hose and hand held hose per watering schedule, washing of vehicles is prohibited, all commercial users may be required to reduce consumption.	
	DWU	CARROLLTON	DALLAS & DENTON	Will begin every May 15 and last until September 15.		Stage has 2 levels, and is triggered by the inability to recover 90% in all storage facilities within 48 hours.	Stage has 2 levels, and is triggered by the inability to recover 90% in all storage facilities within 24 hours.	City will enact stage 4 upon notification from DWU of critical situation; or major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service.		City Manager will request voluntary reductions in use.	Level 1- Implementation of the mandatory odd/even watering schedule provided by the City of Carrolton with no watering on Sunday. Level 2- Same restrictions as level 1, but customers are prohibited from watering 5-9am and 4-7pm.	Level 1- Implementation of the mandatory odd/even watering schedule provided by the City of Carrolton with no watering on Sat., Sun., or Wed. Level 2- Same restrictions as level 1, but customers are prohibited from watering 5-9am and 4-7pm.	Prohibit all outdoor water use until situation has improved.	
	DWU	COPPELL	DALLAS	***Refer to the City of Dallas**										
	DWU	FARMERS BRANCH	DALLAS	***Refer to the City of Dallas**										
	DWU	GRAND PRAIRIE	DALLAS, ELLIS & TARRANT	***Refer to the City of Dallas**										

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	DWU	IRVING	DALLAS	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 1. 2. Water demand exceeds 90% of the current maximum flow rate contracted with DWU for 3 consecutive days. 3. Short-term deficiencies in the City's distribution system limit supply capabilities.	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 2. 2. Water demand exceeds 100% of the current maximum flow rate contracted with DWU for 5 consecutive days. 3. Water demand exceeds 103% of the current maximum flow rate contracted with DWU for 3 consecutive days. 4. Short-term deficiencies in the City's distribution system limit supply capabilities. 5. Inability to maintain or replenish volumes of storage to provide for public health and safety.	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 2. 2. Water demand exceeds 100% of the current maximum flow rate contracted with DWU for 5 consecutive days. 3. Water demand exceeds 103% of the current maximum flow rate contracted with DWU for 3 consecutive days. 4. Short-term deficiencies in the City's distribution system limit supply capabilities. 5. Inability to maintain or replenish volumes of storage to provide for public health and safety.	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is rec eived from DWU requesting initiation of STAGE 3. 2. Short-term deficiencies in the City's distribution system limit supply capabilities. 3. Inability to maintain or replenish volumes of storage to provide for public health and safety.	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 4. 2. Short-term deficiencies in the City's distribution system limit supply capabilities. 3. Inability to maintain or replenish volumes of storage to provide for public health and safety.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water s upply sources.	Goal- Achieve a voluntary reduction in water use. 1. Irving Water Utility staff will communicate as necessary with DWU to initiate joint water management programs. 2. Irving Water Utility staff will work with major water users to voluntarily reduce water use. 3. Irving Water Utility staff will conduct public information programs to educate its customers, enlist their support of voluntary water use restrictions, and to remind customers that the summer water surcharge rate structure is in effect.	Goal- Reduce the average daily water demand below a 100% of the contracted rate with DWU. 1. Landscape watering is limited by watering schedule per city. 2. Vehicle washing is prohibited, but is allowed following the landscape watering schedule. 3. Filling of pools is prohibited, except for newly repaired or constructed pools. 4. No ornamental fountains or ponds may be operated(except were needed to support aquatic life). 5. Use of hydrants is limited to fire fighting or activities related to public health, safety and welfare(construction purposes may be allowed with a permit from IWU). 6. Golf Courses can water greens and tee boxes w/o restrictions, but fairways must follow watering schedule. 7. Limit non-essential use of water.	Goal- Reduce the average daily water use below 100% of the contracted rate with DWU. 1. Landscape watering and residential carwashing is prohibited between the hours of 7 am and 7 pm, and is limited to the watering schedule per city.(foundation and new plantings may be watered for 2 hours using a hose and watering schedule) 2. Nurseries may water stock only between the hours of 7 am and 7 pm. 3. Public gardens are prohibited from watering between 7 am and 7 pm. 4. Golf courses are prohibited from watering greens and tee boxes from 7am to 7 pm, and fairway watering must comply with watering schedule.	Goal- Reduce the average daily water demand below a 100% of the contracted rate with DWU. 1. All landscape watering is prohibited (except for nurseries may water stock using stage 3 criteria, and foundations may be watered using stage 3 provisions.) 2. The use of water for construction purposes under special permit is prohibited. 3. The use of water to wash vehicles is prohibited. 4. Filling of pools is prohibited. 5. No ornamental fountains or ponds may be operated(except were needed to support aquatic life).	Goal- Restrict water usage to allow system to recover from emergency condition. 1. The director is to determine the actions to take in this stage.
	DWU	LEWISVILLE	DALLAS & DENTON	***Refer to the City of Dallas**										
	UTRWD	ARGYLE	DENTON	1. Average daily water consumption reaches 90% of water treatment plant capacity for 3 consecutive days. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to be considered in impact analysis.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. One ground storage tank at the pump station or one clearwell at the water treatment plant is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during a period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. One ground storage tank at the pump station or one clearwell at the water treatment plant is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during a period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 110% of rated production capacity. 2. Average daily water consumption will not allow storage levels to be maintained in District clearwells and ground storage tanks. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in Moderate condition stage occur at the same time for 24-hour period. 5. Water system is contaminated. Severe condition is reached immediately upon detection. 6. Water system fails from acts of God or man. Severe condition is reached immediately upon detection.			Inform the public of the condition and ask them to voluntarily conserve water. Assist participants in contacting any large industrial users and discuss need for initiation of conservation measures.	District designated person will keep participants informed of current measures in effect. District will request participant's to request all customers with meters larger than one inch to reduce consumption by 15%.	Deliveries of water to participants facilities will be controlled to the extent determined by the District designated person to restore overall system to a safe performance level. At participant's request, District will assist participants in eliminating all non-essential water uses. District will eliminate all non-essential uses such as truck washing and lawn watering.		

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	UTRWD	AUBREY	DENTON	1. Notification from UTRWD to begin Stage 1 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 90% of the wells original capacity.		1. Notification from UTRWD to begin Stage 2 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 85% of the wells original capacity. 3. When the total daily demands equal or exceed .400 mgd for 3 consecutive days or .425 mgd for a single day.	1. Notification from UTRWD to begin Stage 3 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 80% of the wells original capacity. 3. When the total daily demands equal or exceed .425 mgd for 3 consecutive days or .450 mgd for a single day.	1. Notification from UTRWD to begin Stage 4 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 75% of the wells original capacity. 3. When the total daily demands equal or exceed .450 mgd for 3 consecutive days or .475 mgd for a single day.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: 1. Reduce or discontinue flushing of water mains. 2. Activate and use an alternative supply source as needed. 3. Use reclaimed water for non-potable purposes. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Aubrey shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Same as stage 1, and reduce or discontinue irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing of gutters, and failure to	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Same as stage 2. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Aubrey. 3. The use of water from fire hydrants for construction purposes under special permit is discontinued.	Goal- Achieve a 40% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
	BARTONVILLE WSC	BARTONVILLE	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	BARTONVILLE WSC	COPPER CANYON	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	UTRWD	CORINTH	DENTON	***Refer to the City of Argyle**										
	MUSTANG WSC	CROSSROADS	DENTON	Peak daily water use is approaching 75% of potential daily production rate (existing volume 588,600 gpd) for 3 consecutive days. Consideration will be given to time of year and weather conditions.	The potential daily production rate is reduced due to failure in the water plant's mechanical capabilities, therefore refilling the water storage facilities is rendered impossible. The restriction will be inforced if repairs can not be made within 48 hrs.	The potential daily production rate is reduced due to failure in the water plant's mechanical capabilities, therefore refilling the water storage facilities is rendered impossible. The restriction will be inforced if repairs can not be made within 48 hrs.	Peak Daily Water use is approaching 90% of potential daily production rate (existing volume 706,320 gpd), for 3 consecutive days.	The imminent or actual failure of a major component of the system which would cause an immediate health of safety hazard. Water demand is exceeding the capacity of the plant- 784,800 gpd for 3 consecutive days.		Alternate day usage of water for outdoor purposes such as lawns, gardens, car washing, etc. The provisions for the alternate day use will be specified by the Corporation in a written notice.	The Corporation may limit water usage determined by the plants capability. A flow restrictor will be installed at member's expense. The maximum number of gallons per meter per month shall be contained in the notice to each member.	All outdoor water usage is prohibited; however, usage for livestock is exempt.	All outdoor water usage is prohibited; livestock may be exempted by the Corporation. All consumption will be limited by: 1. A fixed percentage of each member's average use in the prior month. 2. A maximum number of gallons per meter per week.	

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	DWU	DENTON	DENTON	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 65% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 3 consecutive days. Type C- Water demand approaches a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 55% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 5 consecutive days. Type C- Water demand equals a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 55% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 5 consecutive days. Type C- Water demand equals a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 45% of the total conservation storage. Type B- Water demand has reached or exceeded 95% of delivery capacity for 2 consecutive days. Type C- Water demand exceeds a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 30% of the total conservation storage. Type B- Water demand has reached or exceeded 98% of delivery capacity for 1 consecutive days. Type C - Water demand seriously exceeds a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.		A potential serious drought contingency condition exists for all or part of the system. Initiate a public awareness campaign to inform the public that the City is concerned about water uses and that staff is watching the water sources and evaluating conditions on a daily basis. Encourage public and internal users to voluntarily reduce water consumption. Encourage city governments to take the lead by reducing water use.	Goal 10-20% reduction: The situation calls for an internal restriction on outdoor water use (a five day watering schedule). The public is encouraged to conserve water on a voluntary basis and use all water efficiently. Wholesalers are asked to modify restrictions to meet City of Denton criteria.	Goal 20-30% reduction: The situation calls for mandatory external and internal restrictions to protect public health and safety. Impose 20% surcharge penalty for residential customers water use above 30,000 gallons per meter connection per 30-day period. Impose a 20% surcharge penalty for commercial and industrial customers for monthly water use above 80% of prior billing volumes for a 30-day period. Rate of flow restrictions also apply to wholesale customers.	Goal 30% or greater reduction: The situation is critical an it is necessary to ban all outside watering. Impose 20% surcharge penalty for residential customers water use above 15,000 gallons per meter connection per 30-day period. Impose a 20% surcharge penalty for commercial and industrial customers for monthly water use above 70% of prior billing volumes for a 30-day period. Restrictions also apply to wholesale suppliers.	
	BARTONVILLE WSC	DOUBLE OAK	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	UTRWD	FLOWER MOUND	DENTON	***Refer to the City of Argyle**										
	LAKE CITIES MUA	HICKORY CREEK	DENTON	1. Average daily water consumption reaches 90% of rated production capacity for a 3 day period. 2. Weather conditions are to be considered in determining severity of water navigability. Predicted long, cold or hot, dry periods need to be considered.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption will not allow the storage levels in the ground storage tanks or elevated storage tanks to be maintained. 2. System demand exceeds the high service pumping capacity. 3. Water system is contaminated. 4. Water system fails from acts of God or man. 5. One pump station is taken out of service during a period of heavy demand.			1. The General Manager of the Authority will notify the local fire dept. of the status of the system and request notice of any fire event. 2. Designate a person to manage various stages of emergency water demand management. 3. Contact large commercial or industrial users and inform them of the need for initiation of conservation methods. 4. Review systems capabilities and make any repairs needed.	1. All conditions of previous stage still in effect. 2. Contact all customers with meters larger than one inch to reduce water consumption by 15%.	1. All conditions of previous stage still in effect. 2. The General Manager shall notify the local T.V., local newspaper, and police of each of the customer cities as to the status of the water system. 3. Customers will be notified by telephone and with written notice hand delivered to eachcustomer within 24 hours of the condition. 4. The Authority will eliminate all non-essential uses such as car washes and lawn watering.		
	UTRWD	HIGHLAND VILLAGE	DENTON	***Refer to the City of Argyle**										
	LAKE CITIES MUA	LAKE DALLAS	DENTON	***Refer to the City of Hickory Creek**										
	UTRWD & MUSTANG WSC	LINCOLN PARK	DENTON	***Refer to Cities of Argyle & Crossroads**										
	UTRWD	OAK POINT	DENTON	***Refer to the City of Argyle**										
	LAKE CITIES MUA	SHADY SHORES	DENTON	***Refer to the City of Hickory Creek**										

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	DWU	THE COLONY	DENTON	1. DWU declares STAGE 1 or the average daily water consumption reaches 90% of delivery capacity. 2. Consumption (90%) has existed for a period of 3 days. 3. Weather conditions are to considered in drought classification determination.	1. DWU declares STAGE 2 or the average daily water consumption reaches 90% of rated delivery capacity for a 3 day period. 2. Weather conditions indicate a mild drought will exist for 5 days or more. 3. The ground storage reservoirs or elevated tanks are taken out of service. 4. Water levels in the elevated tanks or ground storage reservoirs is not being maintained during period of 100% rated production for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and can not be repaired within 12 hours.	1. DWU declares STAGE 2 or the average daily water consumption reaches 90% of rated delivery capacity for a 3 day period. 2. Weather conditions indicate a mild drought will exist for 5 days or more. 3. The ground storage reservoirs or elevated tanks are taken out of service. 4. Water levels in the elevated tanks or ground storage reservoirs is not being maintained during period of 100% rated production for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and can not be repaired within 12 hours.	1. DWU declares STAGE 3 or the average daily water consumption reaches 90% of delivery capacity following STAGE 2. 2. Average daily consumption will not enable storage levels to be maintained 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in moderate drought conditions at the same time with a 24 hour period. 5. Water system is contaminated either accidentally or intentionally. 6. Water system fails from acts of God or man.	1. DWU declares STAGE 4 water crisis. 2. Local demand exceeds 90% of deliverable capacity for three consecutive days following STAGE 3 Water Emergency.		1. Inform the public of the situation and encourage voluntary reduction of water use. 2. Contact commercial and industrial users and explain necessity for initiation of strict conservation methods. 3. Limit irrigation, washing vehicles, water use on construction sites and city discontinues non-essential use.	1. Outdoor residential water use is permitted, but must follow a schedule made by the City. 2. Commercial and industrial use will be visited to ensure volunteered conservation has been initiated. 3. Limit use for washing vehicles, etc. 4. Limit use on construction projects to essential water use only. 5. Increase education effort	1. Outdoor watering is only permitted by the City's schedule and during off-peak hours. 2. Prohibit public water uses which are not essential for health, safety and sanitary purposes. 3. Commercial and industrial uses will be controlled to the extent dictate by the City Manager.	1. Prohibit landscape watering. 2. Prohibit washing vehicles, etc. 3. Prohibit use on construction projects. 4. Impose a $.20/1000 gallons increase on all service billings. 5. Increased education efforts.	
RAY HUBBARD/TAWAKONI SYSTEM	DWU	DALLAS	COLLIN, DALLAS, DENTON, KAUFMAN & ROCKWALL	***Refer to the City of Dallas in Elm Fork/Lake Grapevine System**	1. Water reservoir levels drop below 55% of capacity. 2. Water demand exceeds 90% of system capacity for 5 consecutive days. 3. A short-term emergency situation occurs.									
	DALLAS CO. WCID #6	BALCH SPRINGS	DALLAS	1. Dallas initiates action and requests customer cities to do likewise during high demand months. 2. Combined ground storage falls below 35% of capacity at the beginning of a 24-hour demand period.	1. Dallas supply cut by 20% on a continuous basis during high demand months. 2. Combined ground storage falls below 30% of total capacity at the beginning of a 24 hour demand period.	1. Dallas supply cut by 20% on a continuous basis during high demand months. 2. Combined ground storage falls below 30% of total capacity at the beginning of a 24 hour demand period.	1. Dallas supply cut by 30% on a continuous basis during high demand months. 2. Combined ground storage falls below 25% of total capacity.			1. Designated official requests voluntary reductions in water use. 2. Accelerate public information efforts to teach reduced water use. 3. Notify major water users and request conservation. 4. Prohibit City Government from non-essential use. 5. Request reduction in landscape watering by City Gov. 6. Encourage less water use in construction projects.	1. Initiate studies to address solutions to problems. 2. Announce mandatory water reductions including the following are prohibited: hosing off paved areas and buildings; pool draining followed by refilling; washing vehicles by hose; and other non-essential uses as determined by General Manager. Construction water use limited to non-peak hrs. 10 pm to 4 am. Odd-even watering at businesses and residences based on address. Public gardens & golf courses placed on watering schedule. Watering is allowed at anytime(on specified days) if done using a hand-held hose, a bucket or a drip irrigation system.	1. Implement appropriate solutions to supply or distribution problems. 2. Continued implementation of all restrictions from previous stages. Exceptions: Commercial car washing is prohibited between 2 pm and 9 pm each day and landscape watering will be allowed once every five days according to watering schedule provided.		

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS STAGES						POSSIBLE ACTIONS STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	DWU	CEDAR HILL	DALLAS & ELLIS	Daily water demand reaches or exceeds 80% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 100% of the production capacity of the system for 5 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard.			1. Inform the public and encourage voluntary reductions in water use. 2. Notify major water users of the situation and encourage voluntary water conservation. 3. Publicize a voluntary lawn watering schedule. 4. During winter months request water users to insulate pipes rather than running water to prevent pipes from freezing.	1. Continue all relevant actions initiated in the preceding phase. 2. Residential car washing, window washing and pavement washing will be prohibited unless done with a bucket. 3. Street washing, water hydrant flushing, filling swimming pools, and athletic field watering are prohibited uses of public water. 4. A mandatory lawn watering schedule shall be imposed. Watering shall be only permitted during the hours of 6 am and 10 am and 8 pm and 10 pm.	1. Continue the previous phases actions. 2. All outdoor water not essential for public health or safety, shall be prohibited. 3. Establish maximum water use limits for commercial and residential users, and establish monetary fines or surcharges to be levied for exceeding water use limits.		
	DWU	COCKRELL HILL	DALLAS	***Refer to the City of Dallas in Elm Fork/Lake Grapevine System**										
	COMBINE WSC	COMBINE	DALLAS	***No Emergency/Drought Contingency Plan Submitted**										
	DWU	DESOTO	DALLAS	***Refer to the City of Cedar Hill**										
	DWU	DUNCANVILLE	DALLAS	***Refer to the City of Cedar Hill**										
	DWU	GLENN HEIGHTS	DALLAS & ELLIS	Discretionary. 1. Based on static waters in the wells, whether or not within the 10% of normal. 2. Water demands above normal. 3. Time of the year is major factor. 4. No measurable rainfall in the last 30 days. 5. Weather forecast	All wells being monitored as to the static water level below the ground surface. Normal water level being 600.0 feet in Glenn Heights for the Woodbine Sand Aquifer. Maximum level is 640.0 for STAGE 2 Emergency. Previous days water demand between 60-80% of peak.	All wells being monitored as to the static water level below the ground surface. Normal water level being 600.0 feet in Glenn Heights for the Woodbine Sand Aquifer. Maximum level is 640.0 for STAGE 2 Emergency. Previous days water demand between 60-80% of peak.	All static water levels are below 640.0 and falling. The City has experienced failure to achieve water demand reduction objectives through voluntary curtailment. The previous days demand exceeded 80% of peak. The storage tanks fill no more than 65% overnight.	Static levels of wells are at or below 680.0 feet below the natural ground surface; failure to achieve water demand reduction objectives through STAGE 3 restrictions. Storage tanks filling up to less than 50% overnight; or emergency condition.	Emergency condition may be terminated at such time the storage reservoirs are able to fill 95% overnight for three consecutive nights, with favorable weather conditions prevailing.	Goal- 10% reduction in consumption. 1. Inform the public. 2. Notify major commercial users. 3. Increase water supply & demand monitoring. 4. Increase leak detection and repair efforts.	Goal-15 to 18% reduction 1. Continued implementation of stage 1 actions. 2. Formal public notification of a water shortage and encourage voluntary water use curtailment.	Goal- 25 to 30% reduction 1. Continued implementation of relevant actions from previous stages. 2. Car, window, and pavement washing are prohibited unless done with using a bucket. 3. Lawn and garden irrigation restricted to watering schedule between 6 am and 10 am and 8 pm and 10 pm. using only hand held hoses for application. 4. Street washing, fire hydrant flushing, filling of swimming pools and golf course watering are prohibited uses of public water. 5. Prohibit use of water-cooled air conditioners without recirculation.	Goal- 50% or more reduction 1. Continued actions of previous stages. 2. Lawn watering, non-commercial washing of vehicles; street, driveway, and sidewalk washing; and ornamental water use for fountains, artificail waterfalls and reflecting pools are all prohibited non-essential outdoor uses. 3. Implement drought surcharge. 4. Reduce system pressures to minimum levels permissible(35 psi). 5. Ration water or terminate service in the following order: Industrial, Commercial, Residential, Public Health and Safety Facilities.	1. Formal public notification that the measures taken in response to the drought or emergency conditions can be terminated.
	DWU	HUTCHINS	DALLAS	***Refer to the City of Dallas in Elm Fork/Lake Grapevine System**										
	DWU	LANCASTER	DALLAS	***Refer to the City of Cedar Hill**										

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	CEDAR HILL	OVILLA	DALLAS & ELLIS	1. Water consumption has reached 80% of daily maximum supply for 3 consecutive days. 2. Supply has been reduced to 120% of average consumption for previous week. 3. There is an extended period of at least 8 weeks of low rainfall and water use has risen 20% above the use for the same period during the previous year.	1. Water consumption has reached 90% of daily maximum supply for 3 consecutive days. 2. The highest level measured each day in the water storage standpipe drops by 2 feet or more for 3 consecutive days.	1. Water consumption has reached 90% of daily maximum supply for 3 consecutive days. 2. The highest level measured each day in the water storage standpipe drops by 2 feet or more for 3 consecutive days.	1. Failure of a major component of the system or an event which reduces the minimum residual pressure below 20 psi for a period of 2 days or longer. 2. Water consumption has reached 95% of daily maximum supply for 3 consecutive days. 3. Water cons umption of 100% or more of the maximum available and the water level in the water storage standpipe drops in one 24 hour period. 4. Other unforeseen events which could cause imminent health or safety risks to the public.			1. Encourage voluntary reduction of use through the news media. 2. Reduce fire drills which use water. 3. Minimize water flushing by the water utility operators and delay water flushing associated with construction projects. 4. Plan for increase in water supply by investigating new sources or discussing a modification to the water supply contract with Cedar Hill.	1. Inform public of conditions and measures. 2. Prohibit and/or limit private washing of vehicles, windows, siding, pavements, and other non-essential water uses outside the home. 3. Restrict residential irrigation to one day a week and implement the City's watering schedule. 4. Institute system of monitoring and/or enforcing violations of above measures. 5. Prosecute violators of actions 2 and 3 above.	1. Prohibit and/or limit all non-essential water outside the residence, and establish times when watering may be permitted. 2. Ensure that high water use industries are conserving as much as possible. 3. Prohibit any public water use which is not essential for public health. 4. Prosecute violators. 5. Limit the amount of water that may be used for any purpose and prescribe a time when it can be used. 6. Discontinue water service to repeat or severe violators of the above provisions.		
	DWU	SEAGOVILLE	DALLAS	***Refer to the City of Dallas in Elm Fork/Lake Grapevine System**										
	DWU	OAK LEAF	ELLIS	***Refer to the City of Dallas in Elm Fork/Lake Grapevine System**										
	COMBINE WSC	COMBINE	KAUFMAN	***No Emergency/Drought Contingency Plan Submitted**										
NORTH TEXAS MWD SYSTEM	NTMWD	ALLEN	COLLIN	WSE of Lake Lavon lies between 480-475 feet MSL; or the water demand equals or exceeds 95% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 90% of the normal operating elevation within 45 consecutive days.	WSE of Lake Lavon lies between 475-470 feet MSL; or the water demand equals or exceeds 97% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 80% of the normal operating elevation within 45 consecutive days.	WSE of Lake Lavon lies between 475-470 feet MSL; or the water demand equals or exceeds 97% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 80% of the normal operating elevation within 45 consecutive days.	WSE of Lake Lavon lies between 470-453 feet MSL; or the water demand equals or exceeds 99% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 60% of the normal operating elevation within 45 consecutive days.			1. NTMWD will notify water users to start Drought Condition Operations under the NTMWD plan or start their plans.	1. Establish pro rata allocations for all users using billing records. 2 Water users will be advised to continue the actions of the previous stage and implement the next stage.	1. Water users will be advised to continue the actions of the previous stages and implement the next stage. 2. The uniform percentage of water supplied may be reduced further by the Board of Directors.		
	NTMWD	FAIRVIEW	COLLIN	***Refer to the City of Allen**										
	NTMWD	FARMERSVILLE	COLLIN	***Refer to the City of Allen**										
	NTMWD	FRISCO	COLLIN & DENTON	***Refer to the City of Allen**										

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD	GARLAND	COLLIN & DALLAS	The City's provider, NTMWD requests initiation of STAGE 1; or total daily water demand equals 80% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 80% overnight.	The City's provider, NTMWD requests initiation of STAGE 2; or total daily water demand equals 90% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 65% overnight.	The City's provider, NTMWD requests initiation of STAGE 2; or total daily water demand equals 90% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 65% overnight.	The City's provider, NTMWD requests initiation of STAGE 3; or total daily water demand equals the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 50% overnight.	The City's provider, NTMWD requests initiation of STAGE 4; or total daily water demand exceeds the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 20% overnight.	The water system experiences catastrophically decreasing reservoir levels or delivery capacities' major water line breaks or pump or system failures occur' natural or man-made contamination of the water supply occurs or is suspected'or other conditions arise that constitute an unprecedented loss of capability to provide water service adequate for the public health, safety, or welfare.	1. Customers will be requested to voluntarily limit landscape watering to designated watering days. 2. Customers will also be requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.	1. Landscape watering with sprinklers is limited to watering schedule, but watering done with a hand held hose, bucket, or by drip irrigation is permitted at all times. 2. Washing of vehicles is prohibited except on watering days or at commercial car washes. 3. Filling of pools is prohibited unless it is on a watering day. 4. Operation of ponds or fountains is prohibited unless they are necessary to support aquatic life. 5. The use of water from hydrants is prohibited unless it is for fighting fires or public health, safety, and welfare. 6. Irrigation of golf courses is prohibited except on designated watering days. 7. All restaurants are prohibited from serving water to patrons unless requested. 8. The use of water to wash down paved or hard surfaces are prohibited. 9. No washing down of structures. 10. Water can not be used for dust control. 11. The use water to flush gutter is permitted. 12. It is an offense to refuse to repair a leak once notified of it.	1. The irrigation of landscaped areas is prohibited except on designated watering days and only by means of hand-held hoses, hand-held buckets, drip irrigation, or permanently installed sprinklers. The use of hose-end sprinklers is prohibited. 2. The use of water to irrigate golf courses is prohibited, unless the golf course uses non-potable water. 3. The use of water from fire hydrants for construction purposes is prohibited.	1. The irrigation of landscaped areas is prohibited except on designated watering days and only by means of hand-held hoses, hand-held buckets, drip irrigation. The use of permanently installed sprinklers is prohibited. 2. Car washes are prohibited, except at commercial car washes between the hours 6 am until 10 am and 6 pm until 10pm. 3. The use of water to fill, refill, or add water to any indoor or outdoor swimming pool, wading pool, hot tub or spa-type pool is prohibited. 4. No application for new, additional, expanded, or increased capacity water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind will be allowed or approved.	1. The irrigation of landscaped areas is prohibited at all times by any means. 2. The use of water to wash any vehicle is prohibited at all times. 3. Surcharges will be added per City ordinance.
	NTMWD	LUCAS	COLLIN	***Refer to the City of Allen**										
	NTMWD	MCKINNEY	COLLIN	***Refer to the City of Allen**										

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD-NORTH COLLINS WSC	MELISSA	COLLIN	When NTWMD Plan Mild trigger is achieved.		When NTWMD Plan Moderate trigger is achieved.	When the NTMWD Plan Severe trigger is achieved.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		Goal: Achieve the percent reduction set by NTMWD in daily water demand. Supply Management- North Collin Water Supply will reduce flushing of water mains. Recommended Customer Measures - 1. Water Customers are requested to voluntarily limit the irrigation of landscaped areas to Sundays and Thursdays and only between the hours of midnight and 10am and 8pm to midnight. 2. Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.	Goal: Achieve the percent reduction set by NTMWD in daily water demand. Supply Management- North Collin Water Supply will discontinue flushing of water mains. Recommended Customer Measures - 1. Landscape watering with sprinklers is limited to watering schedule, but watering done with a hand held hose, bucket, or by drip irrigation is permitted at all times. 2. Washing of vehicles is prohibited except on watering days or at commercial car washes. 3. Filling of pools is prohibited unless it is on a watering day. 4. Operation of ponds or fountains is prohibited unless they are necessary to support aquatic life. 5. The use of water from hydrants is prohibited unless it is for fighting fires or public health, safety, and welfare. 6. All restaurants are prohibited from serving water to patrons unless requested. 8. The use of water to wash down paved or hard surfaces are prohibited. 9. No washing down of structures. 10. Water can not be used for dust control. 11. The use water to flush gutter	Goal: Achieve the percent reduction set by NTMWD in daily water demand. Supply Management- Discontinue all non-essential water use. Recommended Customer Measures - 1. The irrigation of landscaped areas is limited to designated watering days between the hours of 6-10 am and 8pm-12am and only by means of hand-held hoses, hand-held buckets, drip irrigation. The use of hose-end sprinklers or permanently installed sprinklers is prohibited. 2. The use of water for washing vehicles is limited to designated water days and hours. 3. The use of wate to fill pools is prohibited. 4. Operation of fountains is prohibited unless it is necessary to support aquatic life. 5. No additions or improvements to the system will be approved. 6. The use of water from fire hydrants for construction purposes is prohibited.	Goal: Achieve a 50% reduction in daily water demand. Recommended Customer Measures- 1. Irrigation of landscaped areas is absolutely prohibited. 2. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is absolutely prohibited.	

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD	MURPHY	COLLIN	Stage will begin upon notification from wholesaler NTMWD.	Stage will begin upon notification from wholesaler, NTMWD, total daily demand equals or exceeds 90% of the system's safe operating capacity for 3 consecutive days, or equals or exceeds 95% of the system's capacity on a single day.	Stage will begin upon notification from wholesaler, NTMWD, total daily demand equals or exceeds 90% of the system's safe operating capacity for 3 consecutive days, or equals or exceeds 95% of the system's capacity on a single day.	Stage will begin upon notification from wholesaler, NTMWD, total daily demand equals or exceeds 95% of the system's safe operating capacity for 3 consecutive days, or equals or exceeds 100% of the system's capacity on a single day.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		Goal- Achieve a voluntary reduction as requested by NTMWD. Supply Management Measures - Reduced or discontinued flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Murphy shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve demand levels requested by NTMWD. Supply Management Measures - Reduce or discontinue flushing of water mains, reduced or discontinued irrigation of public landscaped areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. All restaurants are prohibited from severing water to patrons, unless water is asked for. 7. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve demand levels requested by NTMWD. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. An increase in water rates will occur rates provided by the city. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve demand levels requested by NTMWD. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited.	
	NTMWD	NEW HOPE	COLLIN	***Refer to the City of Allen**										
	NTMWD	PARKER	COLLIN	***Refer to the City of Allen**										
	NTMWD	PLANO	COLLIN & DENTON	1. General or Geographic emergency 2. Water system failures/emergencies 3. Supply failure from NTMWD 4. An inability to recover 90% in all storage facilities within a 24-hour period. 5. An inability to recover 90% in all storage facilities within 48-hour period.	Stages 2 & 3 are missing from the report.	Stages 2 & 3 are missing from the report.				Inform the public and encourage voluntary water reductions.	Stages 2 & 3 are missing from the report.			

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD	PRINCETON	COLLIN	Average daily water consumption reaches 90% of the system's firm pumping capacity; or average daily water consumption reaches 90% of the production capacity and/or the contractual amount of the water provider.	Average daily water consumption reaches 100% of the system's firm pumping capacity for a period of 3 days; or average daily water consumption reaches 100% of the production capacity and/or the contractual amount of the water provider; or water levels in ground and/or elevated storage tanks are not being maintained(greater than 50% of full volume) during periods when the water plant is operating @ 100% of its production capacity.	Average daily water consumption reaches 100% of the system's firm pumping capacity for a period of 3 days; or average daily water consumption reaches 100% of the production capacity and/or the contractual amount of the water provider; or water levels in ground and/or elevated storage tanks are not being maintained(greater than 50% of full volume) during periods when the water plant is operating @ 100% of its production capacity.	Average daily water consumption reaches 100% of the system's total pumping capacity for a period of 3 days; or average daily water consumption exceeds 100% of the production capacity and/or the contractual amount of the water provider; or water levels in ground and/or elevated storage tanks are less than 25% of full volume; or water system fails due to acts of God or man.					In the event severe conditions persist (Stage 3 or greater) for an extended period of time, the City may ration water usage and/or terminate service in the following sequence: Recreational users, Commercial users, Industrial users, School users, Residential users; Hospitals, Public Health and Safety Facilities.		
	NTMWD	RICHARDSON	COLLIN & DALLAS	By April 30 of each year the Director of Public Services shall forecast water supply and potential water demands for May 1 through September 30 of that year. The forecast will be based on supply information from NTMWD and from City pumping reports.	The City's inability to recover water storage approximately 90% in all storage facilities within a 24-hour period.	The City's inability to recover water storage approximately 90% in all storage facilities within a 24-hour period.	The City's inability to recover water storage approximately 90% in all storage facilities within a 48-hour period.	1. Natural Disasters 2. Water system failures 3. Supply failure from the NTMWD or initiation of any stage in the NTMWD Drought Contingency Plan.		1. Annually from May 1 through Sept. 30, the Director of public services shall accerate public information efforts to educate and encourage voluntary reductions in water use. 2. Request that users voluntarily reduce water usage, and inform major water consumers to initiate water consumption measures.	1. Initiate studies to evaluate alternatives should conditions worsen, and implement recommendations. 2. Continue public information efforts regarding water supply conditions and conservation efforts. 3. Begin mandatory water use restrictions limiting all landscape and other outdoor water usage at each service address to once every 3 days and according to watering schedule per City.	1. Continue implementation of stage 2 restrictions and continue recommended alternatives identified in stage 2. Initiate studies to continue evaluation of alternatives should conditions worsen. 2. Continue public information efforts regarding water supply conditions and conservation efforts. 3. Continue mandatory water use restrictions limiting all landscape and other outdoor water at each service address to once every seven days and according to watering schedule per City.	1. All outdoor and/or landscaping water shall be prohibited until the emergency is alleviated. 2. The use of water for municipal purposes shall be limited only to those activities necessary to maintain the public health, safety and welfare. 3. The use of water from fire hydrants is prohibited except for fire fighting and related activities. 4. The Director of Public Services shall initiate studies to continue evaluation of alternatives should conditions worsen, and implement recommendations. 5. Continue public information efforts regarding water supply conditions and conservation efforts.	
	NTMWD	ROYSE CITY	COLLIN & ROCKWALL	***Refer to the City of Allen**										
	NTMWD	SACHSE	COLLIN & DALLAS	***Refer to the City of Allen**										
	NTMWD	WYLIE	COLLIN & ROCKWALL	***Refer to the City of Allen**										

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				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD	MESQUITE	DALLAS	Total daily water demand equals or exceeds 37 million gallons for 14 consecutive days or 40 million gallons for 7 consecutive days; or continually falling treated water ground reservoir levels do not refill above 60% overnight for 7 consecutive days; or continually falling treated water overhead storage levels do not refill above 60% overnight for 3 consecutive days.	Total daily water demand equals or exceeds 40 million gallons for 7 consecutive days or 42 million gallons for 3 consecutive days; or continually falling treated water ground reservoir levels do not refill above 50% overnight for 4 consecutive days; or continually falling treated water overhead storage levels do not refill above 50% overnight for 3 consecutive days.	Total daily water demand equals or exceeds 40 million gallons for 7 consecutive days or 42 million gallons for 3 consecutive days; or continually falling treated water ground reservoir levels do not refill above 50% overnight for 4 consecutive days; or continually falling treated water overhead storage levels do not refill above 50% overnight for 3 consecutive days.	Total daily water demand equals or exceeds 42 million gallons for 3 consecutive days or 44 million gallons on a single day; or the available water supply to the City of Mesquite is equal to or less than 44 mgd; or continually falling treated water ground reservoir levels do not refill above 40% overnight for 3 consecutive days; or continually falling treated water overhead storage levels do not refill above 40% overnight for 3 consecutive days.	*Not listed in the report(page missing)	*Not listed in the report(page missing)	Goal- Achieve a voluntary 5% reduction in total daily water demand and reduce consumption during peak times. 1. Water customers are requested to voluntarily limit landscape watering to non-peak hours. Outdoor water use is prohibited between the hours 4 pm and 9 pm and all day Sunday. Use of automatic irrigation systems will be limited to the hours of 1 am to 6 am and prohibited on Sundays. 2. Water customers are requested to minimize or discontinue water use for non-essential purposes. 3. Use of soaker hoses is permitted at all times for foundations only.	Goal- Achieve a 10% percent reduction in daily water demand. 1. Irrigation of landscaped areas with hose-end sprinklers shall be prohibited between the hours of 4 pm and 9 pm. Use of automatic irrigation systems will be limited to the hours of 1 am and 6 am. All watering is prohibited on Sundays. 2. Use of soaker hoses is permitted at all times for foundations only. 3. Use of water to wash vehicles at residences shall follow the schedule mentioned in section 1. Vehicles may be washed at commercial car washes any time. Exceptions include garbage trucks and others that must be washed to maintain health and safety regulations. 4. Use of water to maintain pool levels is limited to schedule mentioned in section 1. 5. Operation of fountains or ponds is prohibited unless they support aquatic life. 6. Use of water from hydrants is limited to fire fighting and other activities related to public safety, health, and welfare.	*Not listed in the report (page missing)	1. Irrigation of landscaped areas is limited to Monday, Wed., and Fri. and shall be by means of hand-held hoses with positive shut off nozzles. Irrigation of landscaped areas is prohibited between the hours 1 pm and 9 pm on watering days. 2. Use of water to wash vehicles not at commercial car washes is prohibited. Use of water to wash vehicles at commercial washes shall be prohibited between the hours of 1 pm and 9 pm. 3. The filling of swimming pools is limited to between 6 am and 11 am on designated water days. 4. Operation of fountains or ponds is prohibited unless they support aquatic life. 5. No applications for additions or improvements to the systems will be allowed or approved. 6. The use of soaker hoses is permitted only for foundations and only on designated watering days.	Goal- Achieve 50% reduction in daily water demand. 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. 3. The use of soaker hoses is prohibited.

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SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD	ROWLETT	DALLAS & ROCKWALL	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 1. 2. Total daily water demand equals 80% of the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 80% overnight.	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 2. 2. Total daily water demand equals 90% of the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 65% overnight.	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 2. 2. Total daily water demand equals 90% of the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 65% overnight.	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 3. 2. Total daily water demand equals the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 50% overnight.	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 4. 2. Total daily water demand exceeds the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 20% overnight.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: 1. Reduce or discontinue flushing of water mains. 2. Discontinue work site wash downs. 3. Reduce or discontinue irrigation of public landscaped areas. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Rowlett Water Utilities shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: 1. Flushing of water mains for public health only. 2. Discontinue irrigation of public landscaped areas. 3. Discontinue work site wash downs. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Rowlett. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 45% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of v ehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
	NTMWD	SUNNYVALE	DALLAS	***Refer to the City of Allen**										

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SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD	CRANDALL	KAUFMAN	1. Daily water demand exceeds 700,000 gallons per day for three consecutive days. 2. Distribution pressure remains below 45 psi for more than six consecutive hours.	1. Daily water demand exceeds 850,000 gallons per day for three consecutive days. 2. Distribution pressure remains below 40 psi for more than six consecutive hours. 3. Storage remains below 75% of total storage capacity (625,000 gallons) for more than 2 consecutive days.	1. Daily water demand exceeds 850,000 gallons per day for three consecutive days. 2. Distribution pressure remains below 40 psi for more than six consecutive hours. 3. Storage remains below 75% of total storage capacity (625,000 gallons) for more than 2 consecutive days.	1. Daily water demand exceeds 1.0 mgd for three consecutive days. 2. Distribution pressure remains below 30 psi for more than six consecutive hours. 3. Storage remains below 50% of total storage capacity (625,000 gallons) for more than 2 consecutive days. 4. Failure of essential system component is imminent potentially causing immediate health or safety hazard.			Inform public of situation, notify major water users and request voluntary use reductions, and institute and publicize a voluntary lawn watering schedule. During winter months request water users to insulate pipes in lieu of continuously running water to prevent freezing.	Continue implementing all Mild Condition actions. 1. Prohibit car, window, and pavement washing except when a bucket is used. 2. Unless essential for public health or safety prohibit the following: Street washing, fire hydrant flushing, filling of swimming pools, and watering of athletic fields. 3. Implement the lawn watering schedule, which an odd and even system. Watering is allowed between the hours of 4 am till 8 am and 8 pm till 10 pm.	Continue implementing all Moderate Condition actions. 1. Prohibit all outdoor water use unless essential for public health or safety. 2. Impose max limits for water use. 3. Impose monetary fines for violators of prescribed maximum use limits. Notify each customer of this action.		
	NTMWD	FORNEY	KAUFMAN	***Refer to the City of Allen**										
	NTMWD	KAUFMAN	KAUFMAN	Daily water demand exceeds 2,000,000 gpd for 3 consecutive days; or water pressure in system remains below 45 psi for 6 consecutive hours; or water levels in Lake Lavon fall between 482-475 feet MSL.	Daily water demand exceeds 2,200,000 gpd for 3 consecutive days; or water pressure in system remains below 40 psi for 6 consecutive hours; or ground water storage reservoir remains below 70% of total storage for 3 consecutive days; or failure of raw water transmission line from NTMWD for more than 6 consecutive hours; or water levels in Lake Lavon fall between 475-468 feet MSL.	Daily water demand exceeds 2,200,000 gpd for 3 consecutive days; or water pressure in system remains below 40 psi for 6 consecutive hours; or ground water storage reservoir remains below 70% of total storage for 3 consecutive days; or failure of raw water transmission line from NTMWD for more than 6 consecutive hours; or water levels in Lake Lavon fall between 475-468 feet MSL.	Daily water demand exceeds 2,500,000 gpd for 3 consecutive days; or failure of raw water transmission line from NTMWD for more than 12 consecutive hours during June, July, or August; or water levels in Lake Lavon fall between 468-453 feet MSL; or imminent or actual failure of system component where immediate health or safety hazards exist.	Natural disasters, massive power outages, massive equipment or facility failures, or public water supply contamination		Inform public of situation, notify major water users and request voluntary use reductions, and institute and publicize a voluntary lawn watering schedule.	Continue implementing all relevant actions in preceding phase. 1. Prohibit car, window, and pavement washing except when a bucket is used. 2. Unless essential for public health or safety prohibit the following: Street washing, fire hydrant flushing, filling of swimming pools, and watering of athletic fields. 3. Implement the lawn watering schedule, which an odd and even system. Watering is allowed between the hours of 6 am till 10 am and 8 pm till 10 pm. 4. Operation of fountains or ponds is prohibited unless it is used to support aquatic life. 5. Request industries and other non-municipal users to curtail all non-essential use, increase recycling, or modify production process.	Continue implementing all relevant actions in preceding phase. 1. Prohibit all outdoor water use unless essential for public health or safety. 2. Limit use to residential customers and secure compliance with legal action if necessary. 3. Require industrial and commercial users to stop operations. 4. Establish monetary fines for exceeding limits. Notify each customer of this action.		
	NTMWD	OAK GROVE	KAUFMAN	***Refer to the City of Allen**										
	NTMWD	HEATH	ROCKWALL	***Refer to the City of Rockwall**										

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	NTMWD	ROCKWALL	ROCKWALL	City's wholesaler, NTMWD notifies requesting initiation of STAGE 1; or the total daily water demand equals or exceeds 15.2 mgd for 3 consecutive days or 16.1 mgd on a single day.	City's wholesaler, NTMWD notifies requesting initiation of STAGE 2; or the total daily water demand equals or exceeds 16.1 mgd for 3 consecutive days or 16.9 mgd on a single day.	City's wholesaler, NTMWD notifies requesting initiation of STAGE 2; or the total daily water demand equals or exceeds 16.1 mgd for 3 consecutive days or 16.9 mgd on a single day.	City's wholesaler, NTMWD notifies requesting initiation of STAGE 3; or the total daily water demand equals or exceeds 16.9 mgd for 3 consecutive days.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. Natural disaster, massive power outage; or 4. City's wholesaler, NTMWD notifies requesting initiation of STAGE 4.		Goal- Achieve a voluntary 5% reduction in daily water demand. Supply Management Measures: Reduce flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur betw een 12 am and 10 am and 8 pm and 12 am on designated days. 2. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 5% reduction in daily water demand. Supply Management Measures: 1. Reduce flushing of water lines. 2. Discontinue irrigation of public landscaped areas. 3. Use reclaimed water for non-potable purposes. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2 but watering is allowed only between the hours of 6 am to 10 am and between 8 pm and 12 am with hand held hose, buckets, or drip irrigation. 2. Watering of golf courses tees is prohibited unless the water is obtained from other than the City of Rockwall. 3. Washing of vehicles is prohibited, unless done at a commercial car washes adhering to watering schedule. 4. The use of water for construction purposes under special permit is discontinued. 5. All restaurants are prohibited from serving water unless asked. 6. The filling of pools is prohibited. 7. No applications for improvements to the system will be allowed or ap	Goal- Prohibit all uses of public water supply, except in emergency cases until further notice. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. 3. Water use is only in emergency cases.
TRINITY AQUIFER	SG	ANNA	COLLIN	***No Emergency/Drought Contingency Plan Submitted**										
	SG	CELINA	COLLIN	The warning light on the 150,000 gallon ground storage tank is activated intermittently for five consecutive days.	The warning light on the 150,000 gallon ground storage tank remains activated for five consecutive days.	The warning light on the 150,000 gallon ground storage tank remains activated for five consecutive days.	The warning light on the 150,000 gallon ground storage tank remains activated for ten consecutive days after declaration of a moderate drought.			1. Inform the public and supply users with recommendation of ways to conserve water. 2. Post voluntary lawn watering schedule.	1. No outdoor usage between 8 am until 7 pm. 2. Users with an even address may use water for outdoor purposes on Mon., Wed., or Fri., and odd addresses on Tue., Thurs., or Sat. 3. No watering on Sun.	The City Council bans the use of water totally for outdoor sprinkling, watering lawns, shrubs, driveway and automobile washing. Certain industrial and commercial users which are not not essential to health & safety of the community will be prohibited from use.		

Table O-1
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	GAINESVILLE	COOKE	Total daily water demand equals or exceeds 80% or 4.14 mgd for five consecutive days.	Total daily water demand equals or exceeds 90% or 4.65 mgd for three consecutive days.	Total daily water demand equals or exceeds 90% or 4.65 mgd for three consecutive days.	Total daily water demand equals 100% or 5.169 mgd for three consecutive days.			Goal- Achieve a voluntary 5% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Gainesville shall adhere to water use restrictions prescribed for stage 2 of the plan. 3. Water customers are requested to practice water conservation	Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains, discontinue irrigation of public landscape areas, and use of reclaimed water for non-potable purposes. Water Use Restrictions: All requirements of Stage 2 except: 1. Landscape irrigation will be according to watering schedule, but by means of hand-held hoses, buckets, drip irrigation, or permanently installed automatic sprinklers. 2. The watering of golf courses is prohibited, unless supplied by another source. 3. The use of water for construction purposes with special permits is discontinued.		
	SG	LINDSAY	COOKE	***No Emergency/Drought Contingency Plan Submitted**										
	SG	MUENSTER	COOKE	***No Emergency/Drought Contingency Plan Submitted**										
	SG	VALLEY VIEW	COOKE	***No Emergency/Drought Contingency Plan Submitted**										
	SG	CARROLLTON	DALLAS & DENTON	***Refer to the City of Carrollton in Elm Fork/Lake Grapevine System**										
	SG	CEDAR HILL	DALLAS & ELLIS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.									
	SG	DESOTO	DALLAS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**										

Table O-1
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	GRAND PRAIRIE	DALLAS, ELLIS & TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	SG	IRVING	DALLAS	***Refer to the City of Irving in Elm Fork/Lake Grapevine System**	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 2. 2. Water demand exceeds 100% of the current maximum flow rate contracted with DWU for 5 consecutive days. 3. Water demand exceeds 103% of the current maximum flow rate contracted with DWU for 3 consecutive days. 4. Short-term deficiencies in the City's distribution system limit supply capabilities. 5. Inability to maintain or replenish volumes of storage to provide for public health and safety.									
	SG	LANCASTER	DALLAS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**										
	GW	WILMER	DALLAS	***No Emergency/Drought Contingency Plan Submitted**										
	SG- ARGYLE WSC	ARGYLE	DENTON	**Drought contingency plan is provided by the Argyle WSC.**										
	SG	AUBREY	DENTON	***Refer to the City of Aubrey in Elm Fork/Lake Grapevine System**										
	SG-BARTONVILLE WSC	BARTONVILLE	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	BARTONVILLE WSC	COPPER CANYON	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	CORINTH	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	BARTONVILLE WSC	DOUBLE OAK	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	FRISCO	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	LAKE CITIES MUA	HICKORY CREEK	DENTON	***Refer to the City of Hickory Creek in Elm Fork/Lake Grapevine System**	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.									
	SG	HIGHLAND VILLAGE	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	JUSTIN	DENTON	1. Daily demand exceeds 200,000 gpd for 3 consecutive days. 2. Distribution pressure remains below 45 psi for more than 6 consecutive hours.	1. Daily demand exceeds 220,000 gpd for 3 consecutive days. 2. Distribution pressure remains below 40 psi for more than 6 consecutive hours. 3. Elevated storage reservoir remains below 50 percent of full capacity for more than 2 consecutive days. 4. Failure of one well simultaneous to a mild condition occurrence.	1. Daily demand exceeds 220,000 gpd for 3 consecutive days. 2. Distribution pressure remains below 40 psi for more than 6 consecutive hours. 3. Elevated storage reservoir remains below 50 percent of full capacity for more than 2 consecutive days. 4. Failure of one well simultaneous to a mild condition occurrence.	1. Daily demand exceeds 240,000 gpd for 3 consecutive days. 2. Failure of two wells during June, July, or August or simultaneous to a mild or moderate condition occurrence. 3. Imminent failure of system component where immediate health or safety hazards exist.			1. Inform the public of situation and request voluntary reduction. 2. Inform major commercial users and request conservation. 3. Publicize voluntary lawn watering schedule. 4. During winter months request water users to insulate pipes rather than running water to prevent freezing.	Continue implementing all relevant actions in the preceding phase. 1. Car, window and pavement washing prohibited except when a bucket is used. 2. Street washing, water hydrant flushing, filling of swimming pools, and athletic field watering are prohibited uses of public water. 3. Implement the even odd watering schedule between the hours of 6-10 am and 8-10 pm.	Continue implementing all relevant actions in the preceding phase. 1. Ban all outdoor water use. 2. Set limits on water use by both commercial and residential users. 3. Establish monetary fines for exceeding water use limits or violation of drought contingency plan. Notify all customers of penalties.		
	SG-KRUGERVILLE WSC	KRUGERVILLE	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	KRUM	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	LAKE CITIES MUA	LAKE DALLAS	DENTON	***Refer to the City of Hickory Creek in Elm Fork/Lake Grapevine System**										
	SG	LINCOLN PARK	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	N/A	OAK POINT	DENTON	***No Emergency/Drought Contingency Plan**										

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
				Submitted										
	SG	PILOT POINT	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	PONDER	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	ROANOKE	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	SANGER	DENTON	1. Peak daily water use is approaching 880,000 gpd, or 80% of the water supply rated as 1,100,000 gpd, for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year.	1. Peak daily water use is approaching 990,000 gpd, or 90% of the water supply rated as 1,100,000 gpd, for 3 consecutive days.	1. Peak daily water use is approaching 990,000 gpd, or 90% of the water supply rated as 1,100,000 gpd, for 3 consecutive days.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demands is exceeding the capacity of the system - 1,100,00 gallons per day for three consecutive days.			Step I- Inform the public and provide specific steps which can be tak en. Notify major commercial users and request voluntary conservation. Implement the City's mandatory watering schedule, which is an odd/even system between the hours 6-10 am and 8-10 pm. During winter months request water user to insulate pipes instead of running water to prevent freezing. City will monitor lake levels.	Step 2- Mayor will ban the use of water totally for outdoor sprinkling, watering of lawns, shrubs, driveway and automobile washing.			
	LAKE CITIES MUA	SHADY SHORES	DENTON	***Refer to the City of Hickory Creek in Elm Fork/Lake Grapevine System**										
	SG	THE COLONY	DENTON	***Refer to the City of The Colony in Elm Fork/Lake Grapevine System**	1. DWU declares STAGE 2 or the average daily water consumption reaches 90% of rated delivery capacity for a 3 day period. 2. Weather conditions indicate a mild drought will exist for 5 days or more. 3. The ground storage reservoirs or elevated tanks are taken out of service. 4. Water levels in the elevated tanks or ground storage reservoirs is not being maintained during period of 100% rated production for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and can not be repaired within 12 hours.									

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG- TROPHY CLUB #1	TROPHY CLUB	DENTON	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 1 restrictions.		Daily water demand reaches 95% of the production capacity of the system for 2 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 2 restrictions.	Daily water demand reaches 95% of the production capacity of the system for 5 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 3 restrictions.	Daily water demand reaches 100% of the production capacity of the system for 2 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 4 restrictions.		Goal- Raise public awareness of the supply situation. Supply Management Measures: 1. Prohibit municipal entities use of water for all non-essential uses. 2. Request a reduction in landscape water by municipal entities. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the Master District shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Reduce and maintain daily demand at or below 90% of system capacity. Supply Management Measures: Identical to Stage 1 measures . Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the Facility. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the Facility. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing gutters and failure to repair controllable lea	Goal- Reduce and maintain daily demand at or below 90% of system capacity. Supply Management Measures: Identical to Stage 1 measures. Water Use Restrictions: All restrictions from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the Master District. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Reduce and maintain daily demand at or below 90% of system capacity. Supply Management Measures: Identical to Stage 1 measures. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved. 6. In the rare event that water shortage conditions threaten public health, safety, and welfare, the Municipal Utility District Board of Directors is authorized to allocate water for residential and commercial users.	

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	ITALY	ELLIS	Total daily demand equals or exceeds 350,000 gallons for 5 consecutive days or 400,000 gallons on a single day.	Total daily demand equals or exceeds 400,000 gallons for 5 consecutive days or 425,000 gallons on a single day.	Total daily demand equals or exceeds 400,000 gallons for 5 consecutive days or 425,000 gallons on a single day.	Total daily demand equals or exceeds 425,000 gallons for 5 consecutive days or 450,000 gallons on a single day.	Total daily demand equals or exceeds 450,000 gallons for 5 consecutive days or 475,000 gallons on a single day.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. - Total daily demand equals 475,000 gallons for 5 consecutive days or 500,000 gallons for 2 days.	Goal- Achieve a voluntary 5% reduction in total use. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Italy shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 7% reduction in daily water demand. Supply Management Measures: Reduced or discontinued use for flushing of water mains and irrigation of public landscaped areas, and use of an alternative source and reclaimed water for non-potable uses. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. Washing down of hard surfaces or buildings, use water for dust control, flushing gutters, and failure to repai	Goal- Achieve a 8% reduction in daily water use. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Italy. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 10% reduction in daily water demand. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 15% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. Stage 6- Water will be alloted according to the City's plan.

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS STAGES						POSSIBLE ACTIONS STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	MIDLOTHIAN	ELLIS	Joe Pool Lake water elevations are between 506-510 feet MSL, and water demand has reached 75% of the treatment plant's max. daily demand for two consecutive weeks.	Joe Pool Lake water elevations are between 496-506 feet MSL; or water demand has reached 90% of the treatment plant's max. daily demand for 5 consecutive days, and if no more rain occurs, Joe Pool Lake has an 18-month supply in storage.	Joe Pool Lake water elevations are between 496-506 feet MSL; or water demand has reached 90% of the treatment plant's max. daily demand for 5 consecutive days, and if no more rain occurs, Joe Pool Lake has an 18-month supply in storage.	Joe Pool Lake water elevations are between 482-496 feet MSL; or water demand has exceeded the treatment plant's max. daily demand on a regular basis and presents imminent danger of a major system failure; or water levels are low enough in the storage reservoirs to hinder fire protection, the imminent or actual failure of a major component of the system has occurred which will cause an immediate health or safety hazard, and due to natural or other disaster, the public water supply is not dependable and may not be suitable for human consumption.			Develop info center and designate info person. Inform public of situation and encourage voluntary reduction. Contact commercial and industrial users and explain necessity of initiation of strict conservation methods. Implementation of system oversight and make adjustments as required to meet changing conditions.	Continue implementation of all relevant actions in preceding phase. Prohibit car, window, and pavement washing except when a bucket is used. Implement the lawn watering schedule provided by the City between the hours of 8 pm until 10 am. The following public water uses not essential for public health or safety will be prohibited: Street washing, water hydrant flushing, filling swimming pools, athletic field watering, watering grassed areas of public property.	Continue implementation of all relevant actions in two previous phases. All outdoor water use will be prohibited. Advise the public daily regarding the severity of the condition. Consider adoption of an emergency ordinance to implement water rationing or surcharges for excessive water use.		
	SG	BELLS	GRAYSON	Loss of over one-third of water production from total pumpage of well #1, well #3 and well #4.		Depletion of 30% of storage tanks and inability to maintain 60% of storage capacity.	The Mayor, or his/her designee, determines the emergency by the following: 1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.			Public notification would go into effect requesting voluntary water conservation.	Voluntary conservation shall become mandatory.	Customers must comply with the regulations set by the City 's plan.		
	SG	COLLINSVILLE	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	SHERMAN	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	TIOGA	GRAYSON	Daily water demand exceeds 175,000 gpd for 3 consecutive days (50% of rated capacity of the wells)	1. Daily water demand exceeds 212,000 gpd for 3 consecutive days (60% of rated capacity of the wells). 2. Water pressures in distribution system remain below 40 psi for more than 6 consecutive hours. 3. Failure of either well, coupled with demand over 75,000 gpd (75% of capacity of the small well).	1. Daily water demand exceeds 265,000 gpd for 3 consecutive days (75% of rated capacity of all wells) 2. Imminent failure of system component where immediate health or safety hazards exist. 3. Water pressures in distribution system continue to drop after implementing management steps.				1. Inform the public of situation through the media. 2. Notify major commercial water users of the situation and request voluntary water use reductions. 3. Publicize voluntary lawn watering schedule. 4. During the winter months request water users to insulate pipes rather than running water to prevent freezing.	1. Continue implementing all relevent actions in preceding phase. 2. Car washing, window washing, pavement washing are all prohibited except when a bucket is used. 3. The following public water use, not essential for public health or safety, are prohibited: Street Washing, Water Hydrant Flushing, and Athletic Field Watering. 4. Implement the City's mandatory watering schedule.	1. Continue implementing all relevent actions in preceding phase. 2. Ban all outdoor water use. 3. Set limits on water use by both commercial and residential users. 4. Establish monetary fines for exceeding water use limits or violation of drought contingency plan. Notify all customers of penalties.		

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	VAN ALSTYNE	GRAYSON	Stage is initiated when continually falling treated water reservoir levels which do not refill above 100% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.		Stage is initiated when continually falling treated water reservoir levels which do not refill above 90% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	Stage is initiated when continually falling treated water reservoir levels which do not refill above 85% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	Stage is initiated when continually falling treated water reservoir levels which do not refill above 75% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. 3. One or more water wells are out of services. 4. One or more water wells are experiencing dangerously declining pumping levels.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Van Alstyne shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a voluntary 15% reduction in daily water demand. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Van Alstyne. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
	SG	WHITESBORO	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	ALEDO	PARKER	***No Emergency/Drought Contingency Plan Submitted**										
	SG	HUDSON OAKS	PARKER	***No Emergency/Drought Contingency Plan Submitted**										
	SG	RENO	PARKER	***No Emergency/Drought Contingency Plan Submitted**										
	SG	SPRINGTOWN	PARKER	***No Emergency/Drought Contingency Plan Submitted**										
	GW	WILLOW PARK	PARKER	***No Emergency/Drought Contingency Plan Submitted**										
	SG-BENBROOK WSA	BENBROOK	TARRANT	Daily water use equals or exceeds 10.0 mgd for seven consecutive days.	Daily water use equals or exceeds 12.0 mgd (120% of treatment capacity) for five consecutive days; and/or water begins to drop below 35 psi in segments of the distribution system.	Daily water use equals or exceeds 12.0 mgd (120% of treatment capacity) for five consecutive days; and/or water begins to drop below 35 psi in segments of the distribution system.	Daily water use equals or exceeds 15 mgd (150% of treatment capacity) for five consecutive days; and/or the storage capacity levels continually recede on a daily basis and remain below 50% of storage capacity for 72 consecutive hours, and the Water Authority Manager determines that such conditions are a hazard to the public health and safety. Failure of any system component which limits the treatment, storage, or distribution capabilities of the system.			Inform the customers. Citizens will be encouraged to restrict outside water use to specified time periods. Use an odd-even watering system.	Inform the public of condition and ask that all customers repair all water leaks and restrict outside water use to specified periods on assigned days.	Curtail all irrigation until further notice. Temporarily ban the use water to supply or re-supply swimming pools. Curtail industrial use of water.		

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	COLLEYVILLE	TARRANT	1. Average daily water use is approaching 14.4 mgd (80% of system design capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low pressure.	1. Average daily water use reaches system design capacity of 18.0 mgd for 3 consecutive days. 2. Net storage in elevated and ground storage reservoirs is continually decreasing on a daily basis and falls below 1.25 million gallons for a period of 72 hours. 3. Water pressures approach 40 psi in the distribution system.	1. Average daily water use reaches system design capacity of 18.0 mgd for 3 consecutive days. 2. Net storage in elevated and ground storage reservoirs is continually decreasing on a daily basis and falls below 1.25 million gallons for a period of 72 hours. 3. Water pressures approach 40 psi in the distribution system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the water system design capacity of 18.0 mgd for 3 consecutive days. 3. The TRA (treated water supply) cannot, by virtue of their own water shortages, meet the demands of the City of Colleyville for furnishing the required supply per the contractual agreement between the 2 entities.			1. Inform the public of the conditions and encourage water users to reduce consumption. 2. Activate an info center. 3. Advise public of situation daily. 4. Advertise a voluntary daily lawn watering odd-even schedule between the hours of 10 pm until 4 am.	1. Mandatory lawn watering schedule. 2. Fine water wasters. 3. Institute an excessive use fee. 4. Prohibit certain uses such as ornamental water fountains or other non-essential water uses. 5. Request industries or other non-municipal water users to stop certain uses, find additional sources, increase recycling, or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish legal penalties for those who fail to comply. 3. Require industrial or commercial water users to stop operations so that remaining water is available for essential health and safety related uses.		
	SG	CROWLEY	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	SG	DALWORTHINGTON GARDENS	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	SG	EULESS	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	SG	EVERMAN	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	SG	HASLET	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	SG	HURST	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	SG	KELLER	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	SG	KENNEDALE	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	LAKE WORTH	TARRANT	1. Annually, beginning on May 1 through September 30. 2. When the water supply available to the city is equal to or less than 1.4 MGD. 3. When notification from provider the City of Fort Worth is received to initate Stage 1 of the Plan. 4. The specific capacity of the city's wells is equal to or less than 95% of the well's original specific capacity. 5. The total daily demand equals or exceeds 1.2 MGD for three consecutive days or 1.4 MGD on a single day. 6. Continually falling ground and/or elevated storage levels which do not refill above 95% overnight.	Daily water purchases reach 60% of total water produced for 3 consecutive days.	1. When the water supply available to the city is equal to or less than 1.2 MGD. 2. When notification from provider the City of Fort Worth is received to initate Stage 2 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 85% of the well's original specific capacity. 4. The total daily demand equals or exceeds 1.4 MGD for three consecutive days or 1.6 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 85% overnight.	1. When the water supply available to the city is equal to or less than 1.1 MGD. 2. When notification from provider the City of Fort Worth is received to initate Stage 3 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 75% of the well's original specific capacity. 4. The total daily demand equals or ex ceeds 1.5 MGD for three consecutive days or 1.7 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 75% overnight.	1. When the water supply available to the city is equal to or less than 1.0 MGD. 2. When notification from provider the City of Fort Worth is received to initate Stage 4 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 65% of the well's original specific capacity. 4. The total daily demand equals or exceeds 1.6 MGD for three consecutive days or 1.8 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 65% overnight.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: The City will reduce the amount of water used for flushing fire hydrants, washing equipment, and watering parks or other grounds. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 2 am and 6 am and 9 pm and 12 am on designated days. 2. All operations of the City of Lake Worth shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: The City in order to reduce water demand will reduce or discontinue flushing of water mains, reduce or discontinue irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from s evering water to patrons, unless water is asked for. 8. Washing down of hard surf	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Lake Worth. 3. The use of water for construction purposes from fire hydrants under special permit is discontinued.	Goal- Achieve a 50% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of the previous stage, but watering is allowed only with hand held hose, buckets, or drip irrigation systems only. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule and between the hours of 2 am to 4 am and 9 pm to 11 pm. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline ex tensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
	SG	NEWARK	TARRANT & WISE	***No Emergency/Drought Contingency Plan Submitted**										

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	NORTH RICHLAND HILLS	TARRANT	Daily water demand exceeds 90% of production capacity of the system for 3 consecutive days or short term deficiencies in the distribution system limit supply capability.	Daily water demand exceeds 95% of the production capacity of the system for 2 consecutive days.	Daily water demand exceeds 95% of the production capacity of the system for 2 consecutive days.	Daily water demand exceeds 95% of the production capacity of the system for five consecutive days.	Daily water demand exceeds 100% of the production capacity of the system for 2 consecutive days.		1. Request voluntary reductions in water use. 2. Activate an info center. 3. Staff will begin to review problems. 4. Notify major users and assist them to achieve voluntary use reduction. 5. Prohibit city use for street and vehicle washing, operation of ornamental fountains, and all other non-essential use. 6. Request no landscape watering between 10 am and 1 pm by the customer cities. 7. Request the City of Watauga to adhere to the same restrictions as NRH retail customers.	1. Continue implementation of all relevant actions from stage 1. 2. Initiate engineering studies to evaluate alternatives. 3. Continue public info efforts. 4. Begin mandatory water use restrictions: Prohibit hosing off paved areas, buildings, or windows; operation of ornamental fountains, swimming pool draining followed by refilling; washing or rinsing vehicles by hose; using water in such a manner as to allow runoff or other wastes. 5. Implement the City's watering schedule between the hours 10 am and 7 pm. 6. Require reduction in local governments non-essential use and reduction in landscape watering. 7. Encourage people to wait until the emergency water situation has passed before establishing new landscaping. 8. Prohibit draining and refilling of existing pools and filling of new pools. 9. Advise City of Watauga of actions being taken by North Richland Hills and require enforcement of like procedures in Watauga.	1. Continue implementation of all relevant actions from stage 1 and 2. 2. Implement recommended engineering alternatives. 3. Prohibit residential and commercial lawn watering and car washing between the hours of 10 am to 7 pm. 4. Foundations, shrubs, and trees may be watered with soaker or hand-held hose on the water schedule. 5. Golf courses using treated water for grounds watering must adhere to following schedule: Greens and tee boxes may be watered but not between 10 am to 7 pm. All other areas must adhere to City's rotational schedule. 6. Public gardens may be watered, but not between 10 am to 7 pm. 7. Nurseries may water stock, but not between 10 am to 7 pm. 8. No new landscaping may be established during this period. 9. No refilling of private pools. 10. Advise City of Watauga of actions being taken by North Richland Hills and require enforcement of like procedures in Watauga.	1. Nurseries may water stock, but not between 10 am to 7 pm and abide by rotational schedule. 2. Public gardens may be watered, but not between 10 am to 7 pm and abide by rotational schedule. 3. Golf course greens and tee boxes may be watered, but not between 10 am to 7 pm and abide by rotational schedule. 4. No refilling of public pools. 5. All commercial users may be required to reduce water consumption. 6. Advise City of Watauga of actions being taken by North Richland Hills and require enforcement of like procedures in Watauga.	
	SG	PANTEGO	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	SG	PELICAN BAY	TARRANT	1. Average daily water consumption reaches 90% of rated production capacity for a three day period. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to b considered.	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption will not allow the storage levels in the ground storage tanks or elevated tanks to be maintained. 2. System demand exceeds the high service pumping capacity. 3. Water system is contaminated. 4. Water system fails from acts of God or man. 5. One pump station is taken out of service during a period of heavy demand.			1. The Director of Public Works of the City will notify the local fire department of the status of the system and request notification of any fire event. 2. Designate a person for the City to manage the various stages of emergency water demand management. 3. Contact any large commercial or industrial users and discuss need for initiation of conservation methods. 3. Review system operational condition and capabilities. Complete any repairs to City facilities which effect the water systems production capability.	1. All measures of previous stage will remain in effect. 2. Contact all customers with meters larger than one inch to request reduction of water consumption by 15%.	1. All measures of previous stage will remain in effect. 2. The Director of Public Works of the City shall notify the local TV, newspaper, and police dept. of the status of the system. 3. Customers will be notified by telephone and written notice of the condition. 4. The City will eliminate all non-essential uses such as car washes and lawn watering.		

Table O-1

Region C: Emergency Drought Contingency Plans by Source

		USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
SOURCE	SUPPLIER	CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	RICHLAND HILLS	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	SG	SANSOM PARK VILLAGE	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	SG	WHITESETTLEMENT	TARRANT	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).			1. Inform the public that between May 1 and September 1 customers should look for ways to conserve water. 2. Advertise voluntary lawn watering schedule. 3. Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.	1. Impose a mandatory odd-even watering schedule. 2. Prohibit non-essential water uses as defined in the plan. 3. Investigate complaints of water misuse and cite water wasters. 4. Vehicles may be washed at commercial car washes, otherwise, they may be washed utilizing water buckets only.	1. Prohibit all outdoor water use, except those needed to substain livestock, pets, aquatic life, and fire fighting. 2. Contact largest commercial and industrial users and request limited water use or temporarily cease watering consuming operations. 3. No applications for new, additional, expanded, or increased-in-size water service connections, meters, service lines, pipeline ex tensions, mains, or water service facilities of any kind shall be allowed or approved. 4. Washing vehicles is prohibited, except those needed for sanitation or safety reasons.		
	SG	ALVORD	WISE	***No Emergency/Drought Contingency Plan Submitted**										
	SG	BOYD	WISE	***No Emergency/Drought Contingency Plan Submitted**										

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	CHICO	WISE	1. When the total dailly water demand equals or exceeds 175,000 gallons for 5 consecutive days or 200,000 gallons for a single day. 2. Continually falling treated water reservoir levels which do not refill above 75% overnight based on an evaluation of minimum treated water storage required to avoid system outage.		1. When the total dailly water demand equals or exceeds 200,000 gallons for 5 consecutive days or 220,000 gallons for a single day.	1. When the total dailly water demand equals or exceeds 225,000 gallons for 5 consecutive days or 240,000 gallons for a single day.	1. When the total dailly water demand equals or exceeds 250,000 gallons for 5 consecutive days or 260,000 gallons for a single day.	1. Major water line breaks, or pump or system failures occur which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: No flushing of dead lines will be implemented by the City. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Chico shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 20% reduction in daily demand. Supply Management Measures: The City in order to reduce water demand will not flush dead lines or wash vehicles or the outsides of buildings. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Use of West Wise Water Association as an alternative supply source will be implemented directly by the City to manage limited water supplies. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Chico. 3. The use of water for construction purposes from fire hydrants under special permit is discontinued.	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of the previous stage, but watering is allowed only with hand held hose, buckets, or drip irrigation systems only. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule and between the hours of 2 am to 4 am and 9 pm to 11 pm. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 40% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
	SG	RHOME	WISE	***No Emergency/Drought Contingency Plan Submitted**										
WOODBINE AQUIFER	SG	ANNA	COLLIN	***No Emergency/Drought Contingency Plan Submitted**										
	SG	BLUE RIDGE	COLLIN	***No Emergency/Drought Contingency Plan Submitted**										
	SG	CELINA	COLLIN	***Refer to the City of Celina in the Trinity Aquifer Section**	The warning light on the 150,000 gallon ground storage tank remains activated for five consecutive days.									
	SG	MELISSA	COLLIN	***No Emergency/Drought Contingency Plan Submitted**										

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	PROSPER	COLLIN	System water production exceeds 400,000 gpd for 2 consecutive days or 360,000 gpd for 7 consecutive days.	System water production exceeds 460,000 gpd for 2 consecutive days or 400,000 gpd for 7 consecutive days.	System water production exceeds 460,000 gpd for 2 consecutive days or 400,000 gpd for 7 consecutive days.	System water production exceeds 520,000 gpd for 2 consecutive days or 440,000 gpd for 7 consecutive days.	Major power outage. Malfunction of major system component.		Contact major water users individually by telephone and post general public notice by radio and TV announcements asking customers to curtail outside water use.	Restrict all outside watering to 6 am to 8 am daily. Issue notice by radio and TV announcements. Notify major users by telephone. Notify first time violators personally. Notify second time violators by citation.	Institute water rationing to ensure essential uses. Issue notice by radio and TV announcements. Notify major users by telephone. Notify first time violators personally. Notify second time violators by citation.	Impose mandatory restrictions of water use. Close distribution systems valves to preserve water for vital uses. Issue notice by radio and TV announcements. Notify major users by telephone. Notify first time violators personally. Notify second time violators by citation.	
	SG	CEDAR HILL	DALLAS & ELLIS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.									
	SG	GLENN HEIGHTS	DALLAS	***Refer to the City of Glenn Heights in Ray Hubbard/Tawakoni System**	All wells being monitored as to the static water level below the ground surface. Normal water level being 600.0 feet in Glenn Heights for the Woodbine Sand Aquifer. Maximum level is 640.0 for STAGE 2 Emergency. Previous days water demand between 60-80% of peak.									
	SG	HUTCHINS	DALLAS	***No Emergency/Drought Contingency Plan Submitted**										
	SG	OVILLA	DALLAS & ELLIS	***Refer to the City of Ovilla in Ray Hubbard/Tawakoni System**	1. Water consumption has reached 90% of daily maximum supply for 3 consecutive days. 2. The highest level measured each day in the water storage standpipe drops by 2 feet or more for 3 consecutive days.									
	SG-HEBRON WSC	HEBRON	DENTON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	LITTLE ELM	DENTON	1. Average daily water consumption reaches 90% of water treatment plant capacity exists for 3 consecutive days. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to be considered in impact analysis.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. Weather conditions indicate mild drought will exist 5 days or more. 3. One ground storage tank or one clearwell is taken out of service during a period of mild water unavailability. 4. Storage capacity is not being maintained during a period of 100% rated production. 5. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. Weather conditions indicate mild drought will exist 5 days or more. 3. One ground storage tank or one clearwell is taken out of service during a period of mild water unavailability. 4. Storage capacity is not being maintained during a period of 100% rated production. 5. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 110% of production capacity. 2. Average daily water consumption will not allow storage levels to be maintained. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in Moderate condition stage occur at the same time for 24-hour period. 5. Water system is contaminated either accidentally or intentionally. Severe condition is reached immediately upon detection. 6. Water system fails from acts of God or man. Severe condition is reached immediately upon detection.			Step 1- Inform the City Council and general public in a meeting of the City Council. Designate a Public Info. Official. Advise public of condition and encourage voluntary reductions in water use. Individually contact commercial and industrial users and discuss need and opportunities for initiation of conservation methods. Review system operation condition and capabilities. Implementation of system oversight and make adjustments to meet changing conditions.	Step 2- Outdoor residential use will be permitted an alternate days. The Mayor will monitor system functions and may establish hours for outside water use. Public info officer shall keep the public advised. Commercial and industrial users will be individually visited to insure volunteered conservation has been initiated. All customers with larger than 1-inch meters will be requested to reduce consumption 15%.	Step 3- The City will ban water use to the following: 1. Vehicle washing, window washing, and all outside watering. 2. Public water uses which are non-essential. 3. Commercial uses and industrial uses will be controlled to the extent determined by the Mayor to restore overall system to a safe performance level.		
	SG	NORTHLAKE	DENTON	***No Emergency/Drought Contingency Plan Submitted**										

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	FERRIS	ELLIS	Daily water demand reaches or exceeds 80% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 100% of the production capacity of the system for 5 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard.			1. Inform the public and encourage voluntary reductions in water use. 2. Notify major water users of the situation and encourage voluntary water conservation. 3. Publicize a voluntary lawn watering schedule. 4. During winter months request water users to insulate pipes rather than running water to prevent pipes from freezing.	1. Continue all relevant actions initiated in the preceding phase. 2. Residential car washing, window washing and pavement washing will be prohibited unless done with a bucket. 3. Street washing, water hydrant flushing, filling swimming pools, and athletic field watering are prohibited uses of public water. 4. A mandatory lawnwatering schedule shall be imposed. Watering shall be only permitted during the hours of 6 am until 10 am and 8 pm until 10 pm.	1. Continue the previous phases actions. 2. All outdoor water not essential for public health or safety, shall be prohibited. 3. Establish maximum water use limits for commercial and residential users, and establish monetary fines or surcharges to be levied for exceeding water use limits.		
	SG	ITALY	ELLIS	***Refer to the City of Italy in the Trinity Aquifer**	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. Weather forecast indicate mild drought conditions will exist 5 days or more. 3. One ground storage tank, or one elevated storage tank, or one clear well is taken out of service during mild drought period. 4. Storage water level is not being maintained during period of 100% rated production period. 5. Existence of any one listed condition for a duration of 36 hours.										
	SG	MAYPEARL	ELLIS	***No Emergency/Drought Contingency Plan Submitted**										
	SG	MILFORD	ELLIS	***No Emergency/Drought Contingency Plan Submitted**										
	SG	PALMER	ELLIS	***No Emergency/Drought Contingency Plan Submitted**										
	SG	RED OAK	ELLIS	***No Emergency/Drought Contingency Plan Submitted**										
	SG	HONEY GROVE	FANNIN	***No Emergency/Drought Contingency Plan Submitted**										

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	LEONARD	FANNIN	Continually falling treated water reservoir levels do not refill to a 100% overnight.	Continually falling treated water reservoir levels do not refill to a 90% overnight.	Continually falling treated water reservoir levels do not refill to a 90% overnight.	Continually falling treated water reservoir levels do not refill to a 85% overnight.	Continually falling treated water reservoir levels do not refill to a 75% overnight.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the West Leonard WSC shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 15% reduction in daily water demand. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the West Leonard WSC. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains.. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	SAVOY	FANNIN	Total daily water demand exceeds 80% or .0884 mgd for 5 consecutive days.	***Remaining stages missing from handout**	***Remaining stages missing from handout**				Goal- Achieve a voluntary 5% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Gainesville shall adhere to water use restrictions prescribed for stage 2 of the plan. 3. Water customers are requested to practice water conservation	Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Managem ent Measures: Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains, discontinue irrigation of public landscape areas, and use of reclaimed water for non-potable purposes. Water Use Restrictions: All requirements of Stage 2 except: 1. Landscape irrigation will be according to watering schedule, but by means of hand-held hoses, buckets, drip irrigation, or permanently installed automatic sprinklers. 2. The watering of golf courses is prohibited, unless supplied by another source. 3. The use of water for construction purposes with special permits is discontinued.		
	SG	TRENTON	FANNIN	***No Emergency/Drought Contingency Plan Submitted**										
	SG	BELLS	GRAYSON	***Refer to the City of Bells in the Trinity Aquifer Section**	City of Sherman will notify Pink Hill Water Supply requesting initiation of Stage 2; or the specific capacity of the PHWS well is less than or equal to 90% of its original capacity; or total daily demand equals or exceeds the PHWS safe operating capacity.									

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	DENISON	GRAYSON	Denison WTP has treated and distributed 10 mgd for 30 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	Denison WTP has treated and distributed 11 mgd for 10 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	Denison WTP has treated and distributed 11 mgd for 10 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	Denison WTP has treated and distributed 12 mgd for 3 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. Force majeure		Goal- Achieve a voluntary 10% -20% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the City of Denison shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 20% -30% reduction in daily water demand. Water Use Restrictions: 1. 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 1 when using sprinklers, but watering is allowed anytime with hand held hose, buckets, drip irrigation. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable	Goal- Achieve a 30%-50% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains.. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% or greater reduction in daily water demand. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. 3. Implementation of water rationing pursuant to Executive Order.	
	SG	GUNTER	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	HOWE	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG-LUELLA WSC	LUELLA	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	POTTSBORO	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	SHERMAN	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	SOUTHMAYD	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	TOM BEAN	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	VAN ALSTYNE	GRAYSON	***Refer to the City of Van Alstyne in the Trinity Aquifer Section**										
	SG	WHITEWRIGHT	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	FROST	NAVARRO	***No Emergency/Drought Contingency Pl an Submitted**										

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
HUBERT H MOSS LAKE	SS	GAINESVILLE	COOKE	***Refer to the City of Gainesville in the Trinity Aquifer Section**	Total daily water demand equals or exceeds 90% or 4.65 mgd for three consecutive days.									
JOE POOL LAKE	TRA	CEDAR HILL	DALLAS & ELLIS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.									
	TRA	DUNCANVILLE	DALLAS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**										
	TRA	GRAND PRAIRIE	DALLAS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**										
	TRA	FERRIS	ELLIS	***Refer to the City of Ferris in the Woodbine Aquifer Section**	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.									
	TRA	MIDLOTHIAN	ELLIS	***Refer to the City of Midlothian in the Trinity Aquifer Section**	Joe Pool Lake water elevations are between 496-506 feet MSL; or water demand has reached 90% of the treatment plant's max. daily demand for 5 consecutive days, and if no more rain occurs, Joe Pool Lake has an 18-month supply in storage.									
	ROCKETT SUD	RED OAK	ELLIS	1. Average daily water use is approaching 4.7 mgd (90% of firm plant capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low water pressures.	1. Average daily water use reaches firm plant capacity of 4.8 mgd for 3 consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 2.0 million gallons (60% capacity) for 48 hours. 3. Water pressures approaching 35 psi in the distribution system as measured by the pressure gauges in the system.	1. Average daily water use reaches firm plant capacity of 4.8 mgd for 3 consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 2.0 million gallons (60% capacity) for 48 hours. 3. Water pressures approaching 35 psi in the distribution system as measured by the pressure gauges in the system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demands is exceeding the capacity of 5.2 mgd for three consecutive days. 3. All available water supply, such as the water wells, level is so low that the pumps cannot pump the daily water demand. 4. All water is being pumped from System's storage reservoirs and all replenishment of water reservoirs has stopped.		1. Inform the public and encourage voluntary reductions in water use. 2. Advise public daily of situation. 3. Enact Step 1 Curtailment: A. Prohibit water from landscape irrigation to escape into gutter, ditches, streets, etc. B. Failure to prom ptly repair a leak due to defective plumbing is prohibited. C. Prohibit recreational use D. Prohibit any other wasteful uses.	1. Inform the public and encourage voluntary reductions in water use. 2. Advise public daily of situation. 3. Enact Step 2 Curtailment: A. Notify major commercial users of the situation and request voluntary reductions. B. Implement the City mandatory watering schedule, which allows customers with last names beginning with A-M to water on even number days and customers with last names ending in N-Z to water on odd days. C. During winter months request customers to insulate pipes rather than running water to prevent freezing. D. Corporation will begin monitoring pressure in the distribution system and water levels in the storage tanks.	1. Inform the public and encourage reductions in water use. 2. Advise public daily of situation. 3. Enact Step 3 Curtailment: Ban all outdoor water use A. Continue implementation of all relevant actions of previous stages. B. Car, window, and pavement washing are prohibited unless done with bucket. C. The following public uses are prohibited: Street washing, water hydrant flushing, filling pools, golf course watering, and athletic field watering. D. Exceptions by approval of General Manager: Health and safety uses of water, commercial businesses that uses water to maintain, but not expand, their businesses, public gardeners, watering at a minimum rate necessary to establish or maintain revegetation or landscape plantings. 4. Certain industrial and commercial water users which are not essential to the health and safety of community will be prohibited from water use.	
CEDAR CREEK/RICHLAND-CHAMBERS SYSTEM	FORT WORTH	GRAND PRAIRIE	DALLAS, ELLIS & TARRANT	Daily water demand reaches 80% of the production capacity of the system for 3 consecutive days.	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days.	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days.	Daily water demand reaches 100% of the production capacity of the system for 3 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard; or a significant reduction in the production capacity of the system is experienced.			1. Inform public by mail and through news media of situation and that customers should look for ways to reduce use. 2. Activate an information center and discuss situation with media. 3. Advise the public of situation daily. 4. Advertise a voluntary watering schedule.	1. Impose mandatory lawn watering schedule. 2. Fine water wasters. 3. Institute an excessive use fee. 4. Prohibit non-essential use. 5. Request industries and other non-municipal water users to stop certain use, find additional sources, increase recycling or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish penalties for those who fail to comply. 3. Require industrial or commercial water users to stop operations so that remaining water is available for essential health and safety related issues.	

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	TRWD	MANSFIELD	ELLIS, JOHNSON & TARRANT	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands.	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.	TRWD's East Texas delivery system(Cedar Creek and Richland-Chambers pipelines) demands reach 90% of capacity for 3 consecutive days.	Demands exceed East Texas delivery system capacity for a 24 hour period.	Due to pipeline or equipment emergency, or contamination, the TRWD anticipates water deliveries to be adversely affected or otherwise disrupted.	1. Inform the District's Board members, and TRWD Advisory Committee Utility Directors of situation. 2. Request Fort Worth to reduce diversions from the TRWD West Fork Reservoirs. 3. Increase pumpage from the TRWD Eastern Division reservoirs.	1. Continue phase 1 measures. 2. Request wholesalers to begin voluntary measures. 3. Review water system conditions and complete repairs. 4. Through the media water users will be notified to begin conservation.	1. Continue mild condition measures. 2. Request all wholesalers to begin mandatory measures. 3. Increase frequency and quantity of info to the public through the news media.	1. Continue phase 3 measures. 2. Request wholesalers to begin water rationing. 3. Continue public info releases.	
	TRA/TRWD	MIDLOTHIAN	ELLIS	***Refer to the City of Midlothian in the Trinity Aquifer Section**	Joe Pool Lake water elevations are between 496-506 feet MSL; or water demand has reached 90% of the treatment plant's max. daily demand for 5 consecutive days, and if no more rain occurs, Joe Pool Lake has an 18-month supply in storage.									
	EAST CEDAR CREEK FWSD(TRWD)	GUN BARREL CITY	HENDERSON	Daily water demand consumption exceeds 80% of WTP capacity; or storage tank levels do not refill above 95% overnight.	Daily water demand consumption exceeds 85% of WTP capacity; or storage tank levels do not refill above 85% overnight.	Daily water demand consumption exceeds 85% of WTP capacity; or storage tank levels do not refill above 85% overnight.	Daily water demand consumption exceeds 90% of WTP capacity; or storage tank levels do not refill above 75% overnight.	Daily water demand consumption exceeds 95% of WTP capacity; or storage tank levels do not refill above 65% overnight.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the East Cedar Creek Fresh Water Supply shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a 15% reduction in daily water demand. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the Facility. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the Facility. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the Facility. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 25% reduction in daily water demand. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 30% reduction in daily water demand. Water Use Restrictions: All relevant previous actions still in effect. 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited.
	TRWD	MABANK	HENDERSON & KAUFMAN	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**										
	EAST CEDAR CREEK FWSD(TRWD)	PAYNE SPRINGS	HENDERSON	***Refer to the City of Gun Barrel City in the Cedar Creek/Richland Chambers System**										

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	WEST CEDAR CREEK MUD (TRWD)	SEVEN POINTS	HENDERSON	1. Average daily water use reaches 3,812,400 gpd (90% of firm line capacity) for three consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low water pressure.	1. Average daily water use reaches firm line capacity of 3.0 mgd for three consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 572,000 gallons (60% capacity) for 48 hours. 3. Water pressures reach 35 psi in the distribution system as measured by the pressure gauges in the system.	1. Average daily water use reaches firm line capacity of 3.0 mgd for three consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 572,000 gallons (60% capacity) for 48 hours. 3. Water pressures reach 35 psi in the distribution system as measured by the pressure gauges in the system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the firm system capacity of 3.0 mgd for three consecutive days. 3. Av ailable water supply, Cedar Creek Lake, level is so low that the pumps cannot pump the daily water demand. 4. All water is being pumped from System's storage reservoirs and all replenishment of water reservoirs has stopped.			Outdoor water use prohibited from 12 pm to 12 am on Fri., Sat., and Sun.	Outdoor water use prohibited from 12 pm to 12 am.	All outdoor water use is prohibited.		
	WEST CEDAR CREEK MUD (TRWD)	TOOL	HENDERSON	***Refer to the City of Seven Points in the Cedar Creek/Richland Chambers System**											
	FORT WORTH	BURLESON	JOHNSON & TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	TRWD	KEMP	KAUFMAN	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**										
	SS	CORSICANA	NAVARRO	***No Emergency/Drought Contingency Plan Submitted**										
	TRWD	ARLINGTON	TARRANT	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**										
	TRA	BEDFORD	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	TRWD	BENBROOK	TARRANT	***Refer to the City of Benbrook in the Trinity Aquifer Section**	Daily water use equals or exceeds 12.0 mgd (120% of treatment capacity) for five consecutive days; and/or water begins to drop below 35 psi in segments of the distribution system.									
	TECON(TRWD)	BLUE MOUND	TARRANT	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**										
	TRA	COLLEYVILLE	TARRANT	1. Average daily water use is approaching 14.4 mgd (80% of system design capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low pressure.	1. Average daily water use reaches system design capacity of 18.0 mgd for 3 consecutive days. 2. Net storage in elevated and ground storage reservoirs is continually decreasing on a daily basis and falls below 1.25 million gallons for a period of 72 hours. 3. Water pressures approach 40 psi in the distribution system.	1. Average daily water use reaches system design capacity of 18.0 mgd for 3 consecutive days. 2. Net storage in elevated and ground storage reservoirs is continually decreasing on a daily basis and falls below 1.25 million gallons for a period of 72 hours. 3. Water pressures approach 40 psi in the distribution system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the water system design capacity of 18.0 mgd for 3 consecutive days. 3. The TRA (treated water supply) cannot, by virtue of their own water shortages, meet the demands of the City of Colleyville for furnishing the required supply per the contractual agreement between the 2 entities.			1. Inform the public of the conditions and encourage water users to reduce consumption. 2. Activate an info center. 3. Advise public of situation daily. 4. Advertise a voluntary daily lawn watering odd-even schedule between the hours of 10 pm until 4 am.	1. Mandatory lawn watering schedule. 2. Fine water wasters. 3. Institute an excessive use fee. 4. Prohibit certain uses such as ornamental water fountains or other non-essential water uses. 5. Request industries or other non-municipal water users to stop certain uses, find additional sources, increase recy cling, or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish legal penalties for those who fail to comply. 3. Require industrial or commercial water users to stop operations so that remaining water is available for essential health and safety related uses.		
	FORT WORTH	CROWLEY	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	FORT WORTH	DALWORTHINGTON GARDENS	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	FORT WORTH	EDGECLIFF VILLAGE	TARRANT	***Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System**										
	TRA	EULESS	TARRANT	***No Emergency/Drought Contingency Plan Submitted**										
	FORT WORTH	EVERMAN	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	FORT WORTH	FOREST HILL	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	TRWD	FORT WORTH	TARRANT	Water storage in TRWD West Fork Reservoirs is projected to decline to less than 295,670 acre-ft (50% of capacity) within 2 weeks, based upon projected water demand and inflows; or water storage in the TRWD reservoirs has declined to 1,426,752 acre-ft (60% of capacity); or demand for Fort Worth or TRWD exceeds 90% of deliverable capacity for 3 consecutive days; or water demands approach a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	Water storage in TRWD reservoirs has declined to 25% of capacity; or demand exceeds 95% of deliverable capacity for 5 consecutive days; or water demand exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	Water Storage in TRWD reservoirs has declined to 20% of capacity; or demand exceeds 100% of deliverable capacity for 2 consecutive days; or water demand seriously exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.		1. City Manager or designee requests voluntary reductions is use. 2. Accelerate public information efforts. 3. Staff begins to review problems. 4. Notify major water users and assist them to achieve voluntary use reduction. 5. Prohibit city government use for street and vehicle washing, operation of ornamental fountains, and all other non-essential use. 6. Request a reduction in landscape watering by city government. 7. No landscape watering between 10 am and 7 pm. 8. Determine effect on wholesale customers and notify them of impact. Advise them to start drought procedures.	1. Initiate engineering studies to evaluate alternatives should conditions worsen. 2. Continue public information efforts. 3. Begin mandatory water restrictions as follows: Prohibit hosing off paved areas, building or windows; operation of ornamental fountains; washing of vehicles by hose; using water in a manner that allows runoff or other water wastes. 4. Limit landscape watering to schedule(five-day rotation) provided by the City and watering is prohibited between 10 am and 7 pm. with exceptions. 5. Require a reduction by local governments of non-essential water use and a reduction in landscape watering. 6. Encourage people to let emergency situation pass before establish new landscaping. 7. Prohibit refilling of existing pools and filling of new pools, pools that are filled may add water to replace what is lost during the day. 8. Advise wholesale customers to take the correct actions.	1. Implement recommended engineering alternatives. 2. Continue implementation of all restrictions from previous stages.. 3. Prohibit residential and commercial landscape watering and vehicle washing between hours of 10 am and 7 pm. 4. Foundations, shrubs, and trees may be watered with soaker or hand-held hose on the five-day rotational basis as landscapes for up to two hours. 5. Golf course may water greens and tee-boxes, but not between the hours mentioned above. Fairways and all other areas must adhere to the watering schedule. 6. Public gardens may be watered, but not between posted hours. 7. Nurseries may water stock, but not between posted hours. 8. No new landscaping may be established during this period. 9. No refilling of private pools. Commercial and public pools may refill. 10. Advise wholesale customers to take the correct actions.	1. Continue implementation of all restrictions from previous stages. 2. Prohibit all residential and commercial landscape watering, except: nurseries may water stock, public gardens may water, golf courses may water greens and tee-boxes, and foundations may be watered for 2 hours using a soaker hose or hand-held hose, but all must follow the watering schedule and times watering is allowed. 3. Vehicle washing is prohibited, unless it is for health, sanitation, or safety reasons; or at a commercial car wash. 4. No new landscaping during this period. 5. No refilling of private pools. Commercial and public pools may refill what is lost from normal daily use. 6. All commercial water users may be required to reduce consumption by a percentage determined by the director. 7. Advise wholesale customers to take the correct actions.	

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	TRA	GRAPEVINE	TARRANT	1. Surface water demand reaches (90% of pumping capacity - City of Grapevine/TRA WTPS)(Design 18.77 mgd), Peak 19.67 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 90% of the reduced pumping capacity.	1. Surface water demand reaches (95% of pumping capacity - City of Grapevine/TRA WTPS)(Design 19.82 mgd), Peak 20.77 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 100% of the reduced pumping capacity.	1. Surface water demand reaches (95% of pumping capacity - City of Grapevine/TRA WTPS)(Design 19.82 mgd), Peak 20.77 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 100% of the reduced pumping capacity.	1. Surface water demand reaches (7 day period) (100% of pumping capacity - City of Grapevine/TRA WTPS)(Design 20.86 mgd), Peak 21.86 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surrface water demand of the system exceeds the reduced production, including a complete failure of the plant to produce any water.	1. Catastrophic failure of a critical component of the treatment, delivery or distribution system that would limit water available to meet demand.		1. Inform public through news media of situation and that customers should look for ways to reduce use. 2. Notify major commercial user of situation and encourage conservation. 3. Publicize a voluntary watering five-day rotational schedule. 4. Car, window and pavement washing are prohibited, unless done with bucket. 5. Landscape watering can occur between 6-10 am with portable sprinklers and 12-7am with a permanent automatic sprinkler system. Golf courses are allowed to water greens and tee-boxes on designated days between 12 am and 12 pm and 7 pm to 12 am. The irrigation of fairways is prohibited. 6. Prohibited public uses include: street washing, water hydrant flushing, filling of pools, athletic field watering.	1. Continue to implement all relevant actions from stage 1. 2. Implement stage 1 watering schedule, but make it mandatory.	1. Continue implementation of all relevant actions of preceding stages. 2. All outdoor watering is prohibited. 3. Contact TRA to determine if additional water is available. 4. By Council action, implement a user's surcharge for excessive use. 5. Ration water in the following order: Industrial, Commercial, Residential, Public health and Safety facilities.		
	FORT WORTH	HURST	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	FORT WORTH	KELLER	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	FORT WORTH/TRA	NORTH RICHLAND HILLS	TARRANT	***Refer to the City of North Richland Hills in the Trinity Aquifer**	Daily water demand exceeds 95% of the production capacity of the system for 2 consecutive days.									
	FORT WORTH	RICHLAND HILLS	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	FORT WORTH	WATAUGA	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days.									
LAKE GRAPEVINE	SS	GRAPEVINE	DALLAS & TARRANT	***Refer to the City of Grapevine in the Cedar Creek/Richland Chambers System**	1. Surface water demand reaches (95% of pumping capacity - City of Grapevine/TRA WTPS)(Design 17.14 mgd), Peak 18.93 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 100% of the reduced pumping capacity.										

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	PARK CITIES MUD	HIGHLAND PARK	DALLAS	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 527 feet MSL.	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 525 feet MSL.	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 525 feet MSL.	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 520 feet MSL.	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 515 feet MSL.		1. Designated official will request reduction in use for all municipal operations. 2. Public info will be accelerated to encourage reduced water use. 3. Major users will be notified and asked to reduce use voluntarily. 4. Staff will begin to review problems.	1. Town or City will be responsible for reducing non-essential use. 2. Vehicle washing is prohibited, unless done with bucket or pail; or at a commercial car wash. 3. No runoff is allowed off yards. 4. No washing of structures. 5. No permitting or maintaining of defective plumbing. 6. No use of hydrants, unless for fighting fires. 7. No water use for ornamental fountains. 8. No washing down of hard-surfaced areas. 9. No water can be used for dust control.	1. Designated official announces beginning of mandatory water reduction. 2. Implement odd/even watering schedule. 3. The two councils shall set a mandatory water use limit with out penalty. 4. Restaurants are prohibited from serving water, unless requested. 5. Use for scenic ponds or lakes is prohibited. 6. The use of water for all pools is prohibited. 7. The use of water for new landscaping is prohibited.	1. All outdoor use is prohibited. 2. All allocations of water use to commercial customers shall be established by City Manager. 3. The max monthly usage by residents will be established by City Manager. 4. The Managers shall take actions deemed necessary to meet the conditions resulting from the emergency.	
	PARK CITIES MUD	UNIVERSITY PARK	DALLAS	***Refer to the City of Highland Park**										
LAKE RAY ROBERTS	UTRWD(DENTON)	CORINTH	DENTON	***Refer to the City of Argyle in the Elm Fork/Lake Grapevine System**	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. One ground storage tank at the pump station or one clearwell at the water treatment plant is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during a period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.										
	SS	DENTON	DENTON	***Refer to the City of Denton in the Elm Fork/Lake Grapevine System**	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 55% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 5 consecutive days. Type C- Water demand equals a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.										
	UTRWD(DENTON)	HIGHLAND VILLAGE	DENTON	***Refer to the City of Argyle in the Elm Fork/Lake Grapevine System**										
	UTRWD(DENTON)	SANGER	DENTON	***Refer to the City of Argyle in the Elm Fork/Lake Grapevine System**										
LAKE LEWISVILLE	SS	DENTON	DENTON	***Refer to the City of Denton in the Elm Fork/Lake Grapevine System**	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 55% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 5 consecutive days. Type C- Water demand equals a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.										
WEST FORK LESS BRIDGEPORT LOCAL	FORT WORTH	NORTHLAKE	DENTON	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days.									
	TROPHY CLUB #1	ROANOKE	DENTON	***Refer to the City of Trophy Club in the Trinity Aquifer Section**										
	FORT WORTH	SOUTHLAKE	DENTON & TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	TROPHY CLUB #1	TROPHY CLUB	DENTON	***Refer to the City of Trophy Club in the Trinity Aquifer Section**										
	TRWD	AZLE	PARKER & TARRANT	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.									
	COMMUNITY WSC	BRAIR	PARKER & TARRANT	***No Emergency/Drought Contingency Plan Submitted**										

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SPRINGTOWN	RENO	PARKER	***No Emergency/Drought Contingency Plan Submitted**										
	TRWD	SPRINGTOWN	PARKER	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**										
	TRWD	FORT WORTH	TARRANT	***Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System**	TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.									
	FORT WORTH	HALTOM CITY	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	FORT WORTH	HASLET	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	FORT WORTH	KELLER	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	FORT WORTH	LAKE WORTH	TARRANT	***Refer to the City of Lake Worth in the Trinity Aquifer Section**										
	TRWD	RIVER OAKS	TARRANT	1. Water storage in TRWD West Fork reservoirs is projected to decline to less than 295,670 acre-feet(50% of capacity) within 2 weeks. 2. Water storage in the TRWD reservoirs has declined to 1,426,752 acre-feet(60% of capacity) 3. Demand for River Oaks or TRWD exceeds 90% of deliverable capacity for 3 consecutive days. 4. Water demand approaches a reduced delivery capacity for all or part of the system due to supply or production limitations including contamination of the system.	1. TRWD demands exceed East Texas delivery system capacity for a 24-hour period. 2. Water storage in TRWD reservoirs has declined to 50% of capacity. 3. Demand exceeds 95% of deliverable capacity for 2 consecutive days. 4. Water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	1. TRWD demands exceed East Texas delivery system capacity for a 24-hour period. 2. Water storage in TRWD reservoirs has declined to 50% of capacity. 3. Demand exceeds 95% of deliverable capacity for 2 consecutive days. 4. Water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	1. Water storage in TRWD reservoirs has declined to 25% of capacity. 2. Demand exceeds 95% of deliverable capacity for 5 consecutive days. 3. Water demand exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	1. Water storage in TRWD reservoirs has dec lined to 20% of capacity. 2. Demand exceeds 100% of deliverable capacity for 2 consecutive days. 3. Water demand seriously exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	1. Water customers requested to voluntarily practice water conservation. 2. Accelerate public info efforts. 3. Staff will begin to review problems. 4. Notify major water users and request voluntary water use reduction. 5. Prohibit city government use of water for street washing, vehicle washing, operation of ornamental fountains and all other non-essential use. 6. Request voluntary reduction in landscape watering by city government. 7. Request voluntary limitation in landscape watering between 10am and 7pm.	1. Initiate engineering studies to evaluate alternatives should conditions worsen. 2. Continue public info efforts. 3. Begin mandatory water use restrictions as follows: Prohibit hosing off sidewalks, driveway s, parking lots, paved areas, or other hard surfaced areas; Prohibit washdown of buildings, windows or structures, other than for fire production; Operation of ornamental fountains; Washing or rinsing of vehicles; Flushing of gutters; Using water in such a manner as to allow runoff or other wastes. 4. Implement the City's five day rotational watering plan. 5. Require reduction by local governments of non-essential use and landscape watering. 6. Encourage public to wait until condition has improved before establishing new landscaping. 7. Prohibit draining and refilling of existing pools and filling of new pools. Existing commerical, public and private swimming pools that are filled may only add water that is lost during normal daily use.	1. Implement recommended engineering alternatives. 2. Continue implementation of all restrictions from previous stages. 3. Prohibit residential or commercial landscape watering and car washing between the hours of 10am and 7pm. 4. Foundations, shrubs, and trees may be watered with soaker or hand-helsd hose on watering days for 2 hours. 5. Public gardens may water, but not between the hours 10am and 7pm. 6. Nurseries may water plant stock, but not between the hours of 10am and 7pm. 7. No new landscaping may be established during this period. 8. No refilling of private pools. Commercial and public pools may refill.	1. Continue implementation of all restrictions from previous stages. 2. Prohibit residential and commerical landscape watering with the following exceptions: Nurseries' plant stock, public gardens, and foundations may be watered but must follow watering schedule and hours in stage 3; or any location using groundwater or wastewater effluent for irrigation. 3. Any and all washing of vehicles is prohibited, except vehicles that need to be washed for health, sanitation, or safety reasons, such as food carriers. 4. No new landscaping may be established during this period. 5. No refilling of private pools. Commercial and public pools may refill water lost to normal daily use. 5. All commerical water users may be required to reduce water consumption by a percentage determined by the Mayor.
	FORT WORTH	SAGINAW	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	FORT WORTH	SANSOM PARK VILLAGE	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										

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Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	FORT WORTH	WESTWORTH VILLAGE	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
	FORT WORTH	WHITE SETTLEMENT	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**										
LAKE BARDWELL	TRA	ENNIS	ELLIS	The water supply available from Lake Bardwell is equal to or less than 26,778 ac re-feet, the lake elevation is at 415 -420 feet MSL the normal lake storage is at 55% or the daily potable water supply system demand is at 85+% capacity.	The water supply available from Lake Bardwell is equal to or less than 22,064 acre-feet, the lake elevation is at 413 -414 feet MSL the normal lake storage is at 50% or the daily potable water supply system demand is at 90+% capacity.	The water supply available from Lake Bardwell is equal to or less than 22,064 acre-feet, the lake elevation is at 413 -414 feet MSL the normal lake storage is at 50% or the daily potable water supply system demand is at 90+% capacity.	The water supply available from Lake Bardwell is equal to or less than 16,111 acre-feet, the lake elevation is at 410 -412 feet MSL the normal lake storage is at 35% or the daily potable water supply system demand is at 95+% capacity.	The water supply available from Lake Bardwell is equal to or less than 10,080 acre-feet, the lake elevation is at 406 -409 feet MSL the normal lake storage is at 20% or the daily potable water supply system demand is at 98+% capacity.		Voluntary reductions will be encouraged, increased public information.	Mandatory limits on lawn watering, restrictions against hosing off paved areas, building or windows washing or rinsing of vehicles by hose and any operation of fountains. No draining and refilling of swimming pools. Violators subject to fines.	Strengthen mandatory water restrictions to specified days and hours, raise retail and wholesale rates by 10% for use exceeding 4,000 gallons per month.	No watering of landscaped areas, no washing of vehicles, mandatory reduction for commercial users, raise rates another 10% for use exceeding 4,000 gallons per month.	
	ELLIS COUNTY WCID #1	WAXAHACHIE	ELLIS	Monitor weather conditions, activate Lake Bardwell Pump Station at elevation 529 feet.	Lake elevation drops to 527 feet.	Lake elevation drops to 527 feet.	Lake elevation drops to 524 feet.	Lake elevation drops to 520 feet.	Lake elevation drops to 517.5 feet.		Voluntary reduction with public education of conditions and reduce non-essential use of water	Mandatory limits on all lawn and landscape watering to Wed. and Sat. only. Prohibit washing off paved areas, buildings or windows; or rinsing off vehicles. No operation of fountains or filling of swimming pools. Violators subject to fines.	Limit watering of landscaped areas between 4-9am on designated days. All commercial and industrial accounts must submit a detailed water conservation plan to the city for consideration and approval. Violators subject to fines.	No landscape watering, no washing of vehicles, and all violators subject to fines.
LAKE CLARK	TRA	ENNIS	ELLIS	***Refer to the City of Ennis in the Lake Bardwell Section**	The water supply available from Lake Bardwell is equal to or less than 22,064 acre-feet, the lake elevation is at 413 -414 feet MSL the normal lake storage is at 50% or the daily potable water supply system demand is at 90+% capacity.									
OTHER AQUIFER	FILES VALLEY WC-PG	MILFORD	ELLIS	***No Emergency/Drought Contingency Plan Submitted**										
	PG	PECAN HILL	ELLIS	***No Emergency/Drought Contingency Plan Submitted**										
	SG	ANNETTA	PARKER	***No Emergency/Drought Contingency Plan Submitted**										
	PG	AURORA	WISE	***No Emergency/Drought Contingency Plan Submitted**										
LAKE WAXAHACHIE	ELLIS COUNTY WCID #1	WAXAHACHIE	ELLIS	***Refer to the City of Waxahachie in the Lake Bardwell Section**	Lake elevation drops to 527 feet.									
REUSE	TRA	WAXAHACHIE	ELLIS	***Refer to the City of Waxahachie in the Lake Bardwell Section**	Lake elevation drops to 527 feet.									
CARRIZO-WILCOX AQUIFER	SG	FAIRFIELD	FREESTONE	***No Emergency/Drought Contingency Plan Submitted**										
	SG	TEAGUE	FREESTONE	***No Emergency/Drought Contingency Plan Submitted**										

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SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	SG	ATHENS	HENDERSON	Daily usage exceeds 4.5 mgd.	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 80% overnight.	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 80% overnight.	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 65% overnight.	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 50% overnight.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to even number days for even number address and odd number days for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1, watering is allowed at all times when done use a hand-held hose, a bucket or watering can, or drip irrigation. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the City. 3. The use of water for construction purposes under special permit is discontinued. 4. Restaurants are prohibited from serving water to patrons, unless requested.	Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above, except between 6-10 am and 6-10 pm. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: All relevant previous actions still in effect. 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited.
	SG	EUSTACE	HENDERSON	***No Emergency/Drought Contingency Plan Submitted**										
	SG	MALAKOFF	HENDERSON	***No Emergency/Drought Contingency Plan Submitted**										
TEAGUE CITY LAKE	SS	TEAGUE	FREESTONE	***No Emergency/Drought Contingency Plan Submitted**										
WORTHAM LAKE	SS	WORTHAM	FREESTONE	1. Average daily water consumption reaches 90% of plant capacity for 3 consecutive days. 2. Water level in Lake Wortham drops below 85% of full capacity.	1. Average daily water consumption reaches 100% of plant capacity for 3 consecutive days. 2. Water level in Lake Wortham drops below 65% of full capacity. 3. City of Mexia water supply is in time of drought, and requiring storage tank near Mexia to be filled at a specified time.	1. Average daily water consumption reaches 100% of plant capacity for 3 consecutive days. 2. Water level in Lake Wortham drops below 65% of full capacity. 3. City of Mexia water supply is in time of drought, and requiring storage tank near Mexia to be filled at a specified time.	1. Failure of elevated storage tank or other major system component which reduce the availability of water to less than 50% of the average daily usage or causes health or safety hazard. 2. Water level in Lake Wortham drops below 50% of full capacity. 3. Water supply from City of Mexia is out of service.			1. Inform public through news media of situation and that customers should look for ways to reduce use. 2. Activate an information center and discuss situation with media. 3. Implement odd/even voluntary watering schedule between the hours of 6-8 am and 8-10 pm.	1. Continue implementation of stage 1 actions. 2. Prohibit nonessential use. 3. Limit residential car, window, and pavement washing unless a bucket is used. 4. Impose watering schedule in stage 1, but make it mandatory. 5. Assess fines to water wasters.	1. Maintain all relevant actions of previous stages. 2. Forbid all outside water use. 3. Restrict each customer's water consumption to a percentage determined prior. 4. Consider adoption of an emergency ordinance to implement water rationing.		
LAKE TEXOMA	COE STORAGE	DENISON	GRAYSON	***Refer to the City of Denison in the Woodbine Aquifer Section**	Denison WTP has treated and distributed 11 mgd for 10 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.									

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
	GTUA	SHERMAN	GRAYSON	1. Water demand has reached 2 times average daily use for 10 consecutive days. 2. Water levels are low enough to disrupt beneficial recreation activities. 3. Water levels are low enough that the supply situation may become critical if the drought conditions continue.	1. Water demand has reached 2 times average daily consumption for 15 consecutive days. 2. Above ground water storage is depleted significantly during periods of peak consumption. 3. Water levels have reached the second impact lev el beyond which operational problems will occur.	1. Water demand has reached 2 times average daily consumption for 15 consecutive days. 2. Above ground water storage is depleted significantly during periods of peak consumption. 3. Water levels have reached the second impact level beyond which operational problems will occur.	1. Imminent or actual failure of a major component of the system has occurred which will cause immediate health or safety hazard. 2. Above ground storage cannot be replenished during off-peak periods. 3. Wells are producing at 2 times average daily consumption for a period of 20 consecutive days. 4. Water demand exceeds the system's capacity on a regular basis, presenting the imminent danger of a major system failure.			1. Inform the public and encourage voluntary conservation. 2. Activate info center. 3. Advise public daily. 4. Advertise a voluntary daily lawn watering schedule.	1. Impose mandatory lawn watering schedule between the hours of 6-8 am and 6-8 pm only. 2. Fine water wasters. 3. Institute excessive use fee. 4. Prohibit non-essential use. 5. Request industries or other non-municipal water to stop certain uses, find additional sources, increase recycling or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish legal penalties for those who fail to comply. 3. Require industrial or commercial users to stop operations so that remaining water is available for essential health and safety related uses.		
LAKE RANDELL	SS	DENISON	GRAYSON	***Refer to the City of Denison in the Woodbine Aquifer Section**	Denison WTP has treated and distributed 11 mgd for 10 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.									
	DENISON	POTTSBORO	GRAYSON	***Refer to the City of Denison in the Woodbine Aquifer Section**										
LAKE ATHENS	ATHENS MWA	ATHENS	HENDERSON	***Refer to the City of Athens in the Carrizo-Wilcox Aquifer Section**	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 80% overnight.									

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
TRINIDAD CITY LAKE	SS	TRINIDAD	HENDERSON	The water supply available to the City of Trinidad is equal to or less than 230 acre-feet.	The water supply available to the City of Trinidad is equal to or less than 155 acre-feet.	The water supply available to the City of Trinidad is equal to or less than 155 acre-feet.	The water supply available to the City of Trinidad is equal to or less than 75 acre-feet.	The water supply available to the City of Trinidad is equal to or less than 50 acre-feet.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.	Goal- Achieve a voluntary 10% reduction in total water use. Supply Management Measures: Reduce or discontinue flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape irrigation to Sun. and Thurs. for even addresses and Sat. and Wed. for odd addresses and watering should occur between 12am until 10am and 8pm until 12am. 2. All operations of the City of Trinidad shall adhere to use restrictions prescribed in stage 2. 3. Water customers are requested to practice water conservation and to minimize or discontinue non-essential use.	Goal- Achieve a 15% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: 1. Irrigation of landscaped areas with hose-ended sprinklers or auto-sprinkler systems shall be limited. 2. Use of water to wash vehicles shall be limited to watering schedule. 3. Use of water to fill pools shall be limited to watering schedule. 4. Operation of fountains or ponds shall be prohibited, unless needed to sustain aquatic life. 5. Use of water from hydrants shall be limited to fire fighting and related activities, except for construction uses when a permit is obtained from the City. 6. Irrigation of golf courses must follow watering schedule unless water is provided by another source. 7. All restaurants are prohibited from serving water to patrons unless it is requested. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair leaks is p	Goal- Achieve 20% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of stage 2 still in effect except: 1. Irrigation of landscaped areas is limited to schedule mentioned earlier, by means of hand-held hoses, hand-held buckets, drip irrigation or permanently installed automatic sprinkler system only. The use of hose-end sprinklers is prohibited at all times. 2. The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the City of Trinidad. 3. The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.	Goal- Achieve a 25% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be occuring to the schedule between the hours of 6am until 10am and 6pm until 10pm. 2. Use of water to wash vehicles shall be prohibited unless done at a commercial car wash between designated hours. 3. Use of water to fill pools shall be prohibited. 4. Operation of fountains or ponds shall be prohibited unless needed to support aquatic life. 5. No application for improvements to system will be allowed or approved.	Goal- Achieve a 25% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be prohibited. 2. Use of water to wash vehicles shall be prohibited. 3. Implement water rationing and surcharges provided by the city.

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
LAKE BRYSON	SS	BRYSON	JACK	When the reservior level reaches the 50% level.		When the reservior level reaches the 40% level.	When the reservior level reaches the 30% level.	When the reservior level reaches the 15% level.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. - Stage 6 - Water Allocation- When the reservior reaches the 15% level or treatment capabilities drop below 25%.	Goal- Achieve a voluntary 5% reduction in daily demand. Supply Management Measures: Educate public on water conservation. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape irrigation to Sun. and Thurs. for even addresses and Sat. and Wed. for odd addresses and watering should occur between 12am until 10am and 8pm until 12am. 2. All operations of the City of Bryson shall adhere to use restrictions prescribed in stage 2. 3. Water customers are requested to practice water conservation and to minimize or discontinue non-essential use.	Goal- Achieve a 10% reduction in daily demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: 1. Irrigation of landscaped areas with hose-ended sprinklers or auto-sprinkler systems shall be limited. 2. Use of water to wash vehicles shall be limited to watering schedule. 3. Use of water to fill pools shall be limited to watering schedule. 4. Operation of fountains or ponds shall be prohibited, unless needed to sustain aquatic life. 5. Use of water from hydrants shall be limited to fire fighting and related activities, except for construction uses when a permit is obtained from the City. 6. Irrigation of golf courses must follow watering schedule unless water is provided by another source. 7. All restaurants are prohibited from serving water to patrons unless it is requested. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing gutters, and failure	Goal- Achieve 10% reduction in daily demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of stage 2 still in effect except: 1. Irrigation of landscaped areas is limited to schedule mentioned earlier, by means of hand-held hoses, hand-held buckets, drip irrigation or permanently installed automatic sprinkler system only. The use of hose-end sprinklers is prohibited at all times. 2. The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the City of Trinidad. 3. The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.	Goal- Achieve a 10% reduction in daily demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be occuring to the schedule between the hours of 6am until 10am and 6pm until 10pm. 2. Use of water to wash vehicles shall be prohibited unless done at a commercial car wash between designated hours. 3. Use of water to fill pools shall be prohibited. 4. Operation of fountains or ponds shall be prohibited unless needed to support aquatic life. 5. No application for improvements to system will be allowed or approved.	Goal- Achieve a 10% reduction in daily demand. Supply Management Measures: Discontinue all water system operations, initiate emergency response procedures. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be prohibited. 2. Use of water to wash vehicles shall be prohibited. 3. Implement water rationing and surcharges provided by the city.
LOST CREEK/JACKSBORO SYSTEM	SS	JACKSBORO	JACK	1. Treatment plant production exceeds 0.9 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.8 mgd. 3. The lake level in Lake Jacksboro reaches an elevation of 1006 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1400 acre-feet (after first fill of Lost Creek Reservoir).	1. Treatment plant production exceeds 1.0 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.6 mgd during October through May or 0.8 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1005 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1200 acre-feet (after first fill of Lost Creek Reservoir).	1. Treatment plant production exceeds 1.0 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.6 mgd during October through May or 0.8 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1005 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1200 acre-feet (after first fill of Lost Creek Reservoir).	1. Treatment plant production exceeds 1.1 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.4 mgd during October through May or 0.6 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1004 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1000 acre-feet (after first fill of Lost Creek Reservoir).		1. Inform the public through news media of situation. 2. Indicate appropriate measures through media. 3. Request voluntary reduction in water usage by limiting lawn watering to once every 5 days. 4. Request limiting car washing to once a week. 5. Request reduction in indoor by 10%	1. Inform the public through news media of situation. 2. Indicate appropriate measures through media. 3. Request voluntary reduction in total water usage by 20%. 4. Implement the 5 day rotational watering system of the City. 5. Prohibit all other non-essential uses. 6. Impose a fine of $200 for violations. 7. Impose a surcharge of $3.50 per 1000 gallons for all use over 8,000 gallons per month.	1. Inform the public through news media of situation. 2. Indicate appropriate measures through media. 3. Request voluntary reduction in total water usage by 20%. 4. Prohibit all outdoor water use. 5. Impose a fine of $500 for violations. 6. Impose a surcharge of $3.50 per 1000 gallons for all use over 7,000 gallons per month.	

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
BRIDGEPORT LOCAL	TRWD	JACKSBORO	JACK	***Refer to the City of Jacksboro in the Lost Creek/Jacksboro System**	1. Treatment plant production exceeds 1.0 mgd for 3 consecutive days. 2. A major com ponent of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.6 mgd during October through May or 0.8 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1005 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1200 acre-feet (after first fill of Lost Creek Reservoir).										
	TRWD	FORT WORTH	TARRANT	***Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System**	TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.										
	TRWD	BRIDGEPORT	WISE	1. Average daily water consumption reaches 90% of production capacity for 3 consecutive days. 2. Weather conditions are to be considered in drought classification determination. Predicted long, cold or dry periods are to be considered in impact analysis.	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. Weather conditions indicate mild drought will exist five days or more. 3. The clear well or elevated tanks are taken out of service during mild drought period. 4. Storage capacity is not being maintained during a period of 100% rated production periods for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and cannot be repaired with in 12-hours.	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. Weather conditions indicate mild drought will exist five days or more. 3. The clear well or elevated tanks are taken out of service during mild drought period. 4. Storage capacity is not being maintained during a period of 100% rated production periods for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and cannot be repaired with in 12-hours.	1. Average daily water consumption reaches 110% of production capacity. 2. Average daily water consumption will not enable storage levels to maintained. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in moderate drought classification occurs at the same time for a 24-hour period. 5. Water system is contaminated either accidentally or intentionally. Severe condition is reached immediately detection. 6. Water system fails from acts of God or man. Severe conditions is reached immediately upon detection.			1. Develop info center and designate info person. 2. Advise public of condition. 3. Encourage voluntary reductions. 4. Contact commercial and industrial users and encourage conservation. 5. Implement system oversight and make adjustments as required to meet changing conditions.	1. Implement City odd/even watering schedule. 2. Mayor will monitor system and set hours. 3. Keep public advised of situation. 4. Commercial and industrial users will be visited to insure volunteered conservation.	Mayor will ban use for the following: 1. Vehicle and window washing, outside watering. 2. Non-essential public uses. 3. Commercial uses not listed and industrial uses will be controlled to the extent dictated by the Mayor.		
	WEST WISE WSC	CHICO	WISE	***Refer to the City of Chico in the Trinity Aquifer Section**										
	WISE CO WSD	DECATUR	WISE	When water pressures leaving the water plant drops to 100 psi or total water demand equals or exceeds 600,000 gallons for 3 consecutive days.	When water pressures leaving the water plant drops to 98 psi or total water demand equals or exceeds 650,000 gallons for 3 consecutive days.	When water pressures leaving the water plant drops to 98 psi or total water demand equals or exceeds 650,000 gallons for 3 consecutive days.	When water pressures leaving the water plant drops to 96 psi or total water demand equals or exceeds 750,000 gallons for 3 consecutive days.	When water pressures leaving the water plant drops to 94 psi or total water demand equals or exceeds 850,000 gallons for 3 consecutive days.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 2% reduction in total use and a 2% increase in pressure. Demand Management Measures: Contact wholesale customers and request voluntary measures to reduce use; General Manager will provide weekly reports to media.	Goal- Achieve a voluntary 6% reduction in total use and a 6% increase in pressure. Demand Management Measures: Contact wholesale customers to discuss conditions and possibility of pro rata curtailment; request initiation of mandatory measures; initiate preparation for pro rata curtailment; will provide weekly reports to media.	Goal- Achieve a voluntary 6% reduction in total use and a 6% increase in pressure. Demand Management Measures: Request initiation of mandatory measures; initiate pro rata curtailment; will provide weekly reports to media.	1. Assess severity of situation. 2. Inform wholesale customers. 3. Notify city, county, or state officials for assistance. 4. Undertake necessary actions e.g.. Repairs. 5. Prepare post event report.	

Table O-1

Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
LAKE TAWAKONI	SS	TERRELL	KAUFMAN	Water in storage in the New Terrell City Lake is equal to or less than ___(acre-feet and/or percentage of storage capacity).	When the water supply available to the City of Terrell is equal to or less than ____(acre-feet, percentage of storage, etc.).	When the water supply available to the City of Terrell is equal to or less than ____(acre-feet, percentage of storage, etc.).	When total daily water demand equals or exceeds ___ percent of the safe operating capacity of ___ million gallons per day for ___ consecutive days or ____percent on a single day.	When total daily demand equals or exceeds ____ million gallons for ____ consecutive days of ___ million gallons on a single day (e.g., based on the "safe" operating capacity of water supply facilities).	Continually falling treated water reservoir levels do not refill above ___ percent overnight (e.g., based on an evaluation of minimum treated water storage required to avoid system outage).	Goal- Achieve a voluntary --% reduction in --. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.	Goal- Achieve a --% reduction in --. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2 Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a --% reduction in --. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the City . 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a --% reduction in --. Supply Management Measures: Reduced or discontinued flushing of water mains.. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve --% reduction in --. Supply Management Meas ures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
LAKE TERRELL	SS	TERRELL	KAUFMAN	***Refer to the City of Terrell in the Lake Tawakoni Section**	When the water supply available to the City of Terrell is equal to or less than ___(acre-feet, percentage of storage, etc.).									
NAVARRO MILLS RESERVOIR	CORSICANA (TRA)	BLOOMING GROVE	NAVARRO	WSE declines to below 422.5 feet.	WSE declines to below 421.5 feet.	WSE declines to below 421.5 feet.	WSE declines to below 419.0 feet.	WSE declines to below 414.5 feet.	WSE declines to below 388.0 feet.	Authority will notify wholesale customers and encourage voluntary reduction.	Authority will notify wholesale customers that diversion from reservoir must be reduced.	Authority will notify wholesale customers that diversion from reservoir must be reduced.	Authority will notify wholesale customers that diversion from reservoir must be reduced.	Authority will notify wholesale customers that diversion from reservoir must be reduced.
	TRA	CORSICANA	NAVARRO	***Refer to the City of Blooming Grove**										
	CORSICANA (TRA)	DAWSON	NAVARRO	***Refer to the City of Blooming Grove**										
	CORSICANA (TRA)	FROST	NAVARRO	***Refer to the City of Blooming Grove**										
	CORSICANA (TRA)	KERENS	NAVARRO	***Refer to the City of Blooming Grove**										
	CORSICANA (TRA)	RICE	NAVARRO	***Refer to the City of Blooming Grove**										
LAKE HALBERT	SS	CORSICANA	NAVARRO	***No Emergency/Drought Contingency Plan Submitted**										

Table O-1
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS						POSSIBLE ACTIONS				
				STAGES						STAGES				
		CITY	COUNTY	1	2	2	3	4	5	1	2	3	4	5
LAKE MINERAL WELLS	SS	MINERAL WELLS	PARKER	***No Emergency/Drought Contingency Plan Submitted**										
LAKE PALO PINTO	SS	MINERAL WELLS	PARKER	***No Emergency/Drought Contingency Plan Submitted**										
LAKE WEATHERFORD	SS	WEATHERFORD	PARKER	***No Emergency/Drought Contingency Plan Submitted**										
LAKE BENBROOK	TRWD	WEATHERFORD	PARKER	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands.	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.	TRWD's East Texas delivery system(Cedar Creek and Richland-Chambers pipelines) demands reach 90% of capacity for 3 consecutive days.	Demands exceed East Texas delivery system capacity for a 24 hour period.	Due to pipeline or equipment emergency, or contamination, the TRWD anticipates water deliveries to be adversely affected or otherwise disrupted.	1. Inform the District's Board members, and TRWD Advisory Committee Utility Directors of situation. 2. Request Fort Worth to reduce diversions from the TRWD West Fork Reservoirs. 3. Increase pumpage from the TRWD Eastern Division reservoirs.	1. Continue phase 1 measures. 2. Request wholesalers to begin voluntary measures. 3. Review water system conditions and complete repairs. 4. Through the media water users will be notified to begin conservation.	1. Continue mild condition measures. 2. Request all wholesalers to begin mandatory measures. 3. Increase frequency and quantity of info to the public through the news media.	1. Continue phase 3 measures. 2. Request wholesalers to begin water rationing. 3. Continue public info releases.	
	TRWD	BENBROOK	TARRANT	***Refer to the City of Benbrook in the Trinity Aquifer**	Daily water use equals or exceeds 12.0 mgd (120% of treatment capacity) for five consecutive days; and/or water begins to drop below 35 psi in segments of the distribution system.									
	TRWD	FORT WORTH	TARRANT	***Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System**	TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.									
LAKE ARLINGTON	TRWD	ARLINGTON	TARRANT	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.									

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
COLLIN	ALLEN		*No Emergency/Drought Contingency Plan Submitted				
	ANNA		*No Emergency/Drought Contingency Plan Submitted				
	BLUE RIDGE		*No Emergency/Drought Contingency Plan Submitted				
	BOYD ACRES WATER SYSTEM - FRISCO	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	Well down 10-ft greater than normal pumping level. Total daily demand reaches 80% of pumping capacity. Production or system limitation arise.	**Mandatory Water Use Restrictions**
	CELINA	May-87	**Mild Drought**	The warning light on the 150,000 gallon ground storage tank is activated intermittently for five consecutive days.	**Moderate Drought**	The warning light on the 150,000 gallon ground storage tank remains activated for five consecutive days.	**Major Drought**
	COPEVILLE WSC	May-00	**Mild Water Shortage Conditions**	Lake Lavon water surface elevation lies between 480 & 475 feet above MSL to be determined by NTMWD; Notification is given by NTMWD and the City of Farmersville to initiate STAGE 1.	**Moderate Water Shortage Conditions**	Lake Lavon water surface elevation lies between 475 & 470 feet above MSL to be determined by NTMWD or the City of Farmersville; or continually falling storage tank levels which do not refill above 50% overnight.	**Severe Water Shortage Conditions**
	COUNTY RIDGE WATER COMPANY-MELISSA	Sep-00	**Customer Awareness**	Stage is started when every the need arises.	**Mandatory Water Use Restrictions**	1. Well level reaches 900-ft. when the pumps are running. 2. Storage tank level at 25% of both tanks. 3. Any other production or distribution limitations.	**Critical Water Use Restrictions**
	DALLAS(DWU)		*Refer to City of Dallas in Dallas County				
	DESERT WSC	Mar-00	**Mild Water Shortage Conditions**	When continually falling treated water reservoir levels which do not refill above 100% overnight or on such occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Moderate Water Shortage Conditions**	When continually falling treated water reservoir levels which do not refill above 90% overnight or on such occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Severe Water Shortage Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	EAST FORK SPECIAL UTILITY DISTRICT	Jun-00	**Mild Water Shortage Conditions**	When notification is received from NTMWD requesting initiation of Stage 1.	**Moderate Water Shortage Conditions**	When notification is received from NTMWD requesting initiation of Stage 2; or when the maximum daily demand per meter exceeds 500 gpd for seven consecutive days, or when due to system repairs, excessive leakage or equipment malfunction.	**Severe Water Shortage Conditions**
	FAIRVIEW		***No Emergency/Drought Contingency Plan Submitted**				
	FARMERSVILLE (Retail Supplier & Wholesale Public Supplier)	Nov-99	**Mild Conditions**	Operations may be initiated by the NTMWD.	**Moderate Conditions**	Operations may be initiated by the NTMWD.	**Severe Conditions**
	FRISCO		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	GARLAND	Nov-99	**Mild Water Shortage Conditions**	The City's provider, NTMWD requests initiation of STAGE 1; or total daily water demand equals 80% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 80% overnight.	**Moderate Water Shortage Conditions**	The City's provider, NTMWD requests initiation of STAGE 2; or total daily water demand equals 90% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 65% overnight.	**Severe Water Shortage Conditions**
	HILLTOP WATER SUPPLY - GARLAND	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	When metered water usage reaches approx. 2,400 gpd and pumps run about one hour each day.	**Mandatory Water Use Restrictions**
	LUCAS		***No Emergency/Drought Contingency Plan Submitted**				
	MCKINNEY		***No Emergency/Drought Contingency Plan Submitted**				
	MELISSA		***No Emergency/Drought Contingency Plan Submitted**				
	MIDWAY WATER UTILITIES , INC. PLANO	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	1. Supply-Based : Occurs when MUSTANG WATER SUPPLY CORP.'s drought Stage 2 begins. 2. Demand or Capacity- Based: Total daily demand as % of pumping capacity 65% & if there are production or distribution limitations.	**Mandatory Water Use Restrictions**
	MURPHY	Aug-00	**Mild Water Shortage Conditions**	Stage will begin upon notification from wholesaler NTMWD.	**Moderate Water Shortage Conditions**	Stage will begin upon notification from wholesaler, NTMWD, total daily demand equals or exceeds 90% of the system's safe operating capacity for 3 consecutive days, or equals or exceeds 95% of the system's capacity on a single day.	**Severe Water Shortage Conditions**
	NEW HOPE		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	NORTH COLLIN WATER SUPPLY	Aug-00	**Mild Water Shortage Conditions**	When NTWMD Plan Mild trigger is achieved.	**Moderate Water Shortage Conditions**	When NTWMD Plan Moderate trigger is achieved.	**Severe Water Shortage Conditions**
	NORTH FARMERSVILLE WSC	Feb-00	**Mild Water Shortage Conditions**	Notification by the City of Farmersville to implement stage 1.	**Moderate Water Shortage Conditions**	Notification by the City of Farmersville to implement stage 2.	**Severe Water Shortage Conditions**
	NTMWD	Aug-99	**Mild Drought**	WSE of Lake Lavon lies between 480-475 feet MSL; or the water demand equals or exceeds 95% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 90% of the normal operating elevation within 45 consecutive days.	**Moderate Drought**	WSE of Lake Lavon lies between 475-470 feet MSL; or the water demand equals or exceeds 97% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 80% of the normal operating elevation within 45 consecutive days.	**Severe Drought**
	PARKER		***No Emergency/Drought Contingency Plan Submitted**				
	PLANO	Oct-99	**Water Warning**	Inability to recover 90% in all storage facilities within a 24-hour period.	**Stage 2 & 3 are missing from the report**	1. General or Geographic emergency 2. Water system failures/emergencies 3. Supply failure from NTMWD 4. An inability to recover 90% in all storage facilities within a 24-hour period. 5. An inability to recover 90% in all storage facilities within 48-hour period.	

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	PRINCETON	Oct-99	**Mild Condition**	Average daily water consumption reaches 90% of the system's firm pumping capacity; or average daily water consumption reaches 90% of the production capacity and/or the contractual amount of the water provider.	**Moderate Conditions**	Average daily water consumption reaches 100% of the system's firm pumping capacity for a period of 3 days; or average daily water consumption reaches 100% of the production capacity and/or the contractual amount of the water provider; or water levels in ground and/or elevated storage tanks are not being maintained(greater than 50% of full volume) during periods when the water plant is operating @ 100% of its production capacity.	**Severe Conditions**
	PROSPER	May-96	**Mild Condition**	System water production exceeds 400,000 gpd for 2 consecutive days or 360,000 gpd for 7 consecutive days.	**Moderate Condition**	System water production exceeds 460,000 gpd for 2 consecutive days or 400,000 gpd for 7 consecutive days.	**Severe Condition**
	RICHARDSON	Sep-99	**Water Watch**	By April 30 of each year the Director of Public Services shall forecast water supply and potential water demands for May 1 through September 30 of that year. The forecast will be based on supply information from NTMWD and from City pumping reports.	**Water Warning**	The City's inability to recover water storage approximately 90% in all storage facilities within a 24-hour period.	**Water Emergency**
	ROYSE CITY		***No Emergency/Drought Contingency Plan Submitted**				
	SACHSE		***No Emergency/Drought Contingency Plan Submitted**				
	WEST LEONARD WSC	May-00	**Mild Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 100% overnight.	**Moderate Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 90% overnight.	**Severe Water Shortage Conditions**
	WYLIE		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
COOKE	AQUASOURCE UTILITY INC.	Aug-00	**Customer Awareness**	Stage I will begin every April 1 and end Sept. 30 customers will receive notice by mail.	**Voluntary Water Conservation**	Supply-Based- Stage will be initiated upon notice from wholesaler. Demand Based - Initiated when total daily demand equals or exceeds 85% of the daily well production capacity for 3 consecutive days or 100% on a single day. Permit Based - Systems that are within the jurisdiction of a special district, the regulatory entity will formally notify to initiate stage.	**Mandatory Water Use Restrictions**
	GAINESVILLE	Dec-99	**Mild Water Shortage Conditions**	Total daily water demand equals or exceeds 80% or 4.14 mgd for five consecutive days.	**Moderate Water Shortage Conditions**	Total daily water demand equals or exceeds 90% or 4.65 mgd for three consecutive days.	**Severe Water Shortage Conditions**
	GREATER TEXOMA UTILITY AUTHORITY-GAINESVILLE	Jan-95	**Mild Conditions**	1. Water demand has reached 2 times average daily use for 10 consecutive days. 2. Water levels are low enough to disrupt beneficial recreation activities. 3. Water levels are low enough that the supply situation may become critical if the drought conditions continue.	**Moderate Conditions**	1. Water demand has reached 2 times average daily consumption for 15 consecutive days. 2. Above ground water storage is depleted significantly during periods of peak consumption. 3. Water levels have reached the second impact level beyond which operational problems will occur.	**Severe Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	KIOWA HOMEOWNERS WSC	Aug-00	**Mild Water Shortage Conditions**	Total daily water demand equals or exceeds 1.25 mg for 5 consecutive days or 1.4 mg on a single day.	**Moderate Water Shortage Conditions**	Total daily water demand equals or exceeds 1.5 mg for 5 consecutive days or 1.5 mg on a single day.	**Critical Water Shortage Conditions**
	LINDSAY		***No Emergency/Drought Contingency Plan Submitted**				
	LINDSAY PURE WATER COMPANY - LINDSAY	Aug-00	**Voluntary Water Use Restrictions**	Stage will begin every April 1 and end September 30	**Mild Water Use Restrictions**	When total daily demand exceeds 90% of the daily pumping capacity for 3 consecutive days.	**Moderate Water Use Restrictions**
	MUENSTER		***No Emergency/Drought Contingency Plan Submitted**				
	MYRA WATER SYSTEM	Aug-00	**Customer Awareness**	Stage will begin every April 1 and end September 30	**Voluntary Water Conservation**	Supply-Based - Overnight recovery rate reaches 14-ft and no rainfall for 30 consecutive days. Demand-Based - Pumps hours per day equal 18 hours.	**Mandatory Water Use Restrictions**
	VALLEY VIEW		***No Emergency/Drought Contingency Plan Submitted**				
	WOODBINE WSC - GAINESVILLE	Aug-00	**Mild Water Shortage Conditions**	1. When water supply available to the Corporation is equal to or less than 200 gallons per connection in shortage. 2. When the specific capacity of the Corp. is equal to less than 75% of the well's original specific capacity. 3. When total daily demand equals or exceeds 1,000,000 gallons for seven consecutive days or 500,000 gallons on a single day.	**Moderate Water Shortage Conditions**	Water capacity reaches a critical level of less than 200 gallons per connection or meter; or when the large storage tank reaches a level of below 186,000 gallons in reserve.	**Severe Water Shortage Conditions**
DALLAS	ADDISON	Aug-99	**Water Watch**	Total raw water supply in connected lakes drops below 55% of total conservation storage, demand exceeds 90% of deliverable capacity for three consecutive day, or short term deficiencies in distribution system limit supply capability.	**Water Warning**	Total raw water supply in connected lakes drops below 50% of total conservation storage, demand exceeds 95% of deliverable capacity for two consecutive day.	**Water Emergency**
	BALCH SPRINGS		***Refer to Dallas County Water Control & Improvement District #6**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	CARROLLTON	Apr-99	**Water Watch**	Will begin every May 15 and last until September 15.	**Water Warning**	Stage has 2 levels, and is triggered by the inability to recover 90% in all storage facilities within 48 hours.	**Water Emergency**
	CEDAR HILL		***Refer to the Ten Mile Creek Regional Wastewater System in Dallas County**				
	TRA- CENTRAL REGIONAL WASTEWATER SYSTEM	Jan-98	**Mild Conditions**	Daily water demand reaches or exceeds 80% of the production capacity of the system for 5 consecutive days.	**Moderate Conditions**	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	**Severe Conditions**
	COCKRELL HILL		***No Emergency/Drought Contingency Plan Submitted**				
	COMBINE		***No Emergency/Drought Contingency Plan Submitted**				
	COMMUNITY WATER SERVICES, INC. - BALCH SPRINGS	Aug-00	**Customer Awareness**	Stage will begin every April 1 and end September 30	**Voluntary Water Conservation**	Supply-Based - When the wholesale supplier's implement stage 2. The facility has two systems: Danieldale and Grand Prairie. The Danieldale system will follow the guidelines of the City of Dallas and the Grand Prairie system will follow the City of Grand Prairie guidelines.	**Mandatory Water Use Restrictions**
	COPPELL		***No Emergency/Drought Contingency Plan Submitted**				
	DALLAS(DWU)	Sep-99	**Water Awareness**	1. Water reservoir levels drop below 65% of capacity. 2. Water demand exceeds 90% of system capacity for 3 consecutive days. 3. A short-term emergency situation occurs.	**Water Watch**	1. Water reservoir levels drop below 55% of capacity. 2. Water demand exceeds 90% of system capacity for 5 consecutive days. 3. A short-term emergency situation occurs.	**Water Warning**
	DALLAS COUNTY PARK CITIES MUD	Apr-96	**Water Shortage Possibility**	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 527 feet MSL.	**Water Shortage Watch**	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 525 feet MSL.	**Water Shortage Warning**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	DALLAS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT #6	Jan-00	**Water Watch**	1. Dallas initiates action and requests customer cities to do likewise during high demand months. 2. Combined ground storage falls below 35% of capacity at the beginning of a 24-hour demand period.	**Water Warning**	1. Dallas supply cut by 20% on a continuous basis during high demand months. 2. Combined ground storage falls below 30% of total capacity at the beginning of a 24 hour demand period.	**Water Emergency**
	DESOTO		***Refer to the Ten Mile Creek Regional Wastewater System in Dallas County**				
	DUNCANVILLE		***Refer to the Ten Mile Creek Regional Wastewater System in Dallas County**				
	FARMERS BRANCH		***No Emergency/Drought Contingency Plan Submitted**				
	GARLAND	Nov-99	**Mild Water Shortage Conditions**	The City's provider, NTMWD requests initiation of STAGE 1; or total daily water demand equals 80% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 80% overnight.	**Moderate Water Shortage Conditions**	The City's provider, NTMWD requests initiation of STAGE 2; or total daily water demand equals 90% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 65% overnight.	**Severe Water Shortage Conditions**
	GLENN HEIGHTS	Sep-84	**Minor - Water Shortage Alert (Voluntary)**	Discretionary. 1. Based on static waters in the wells, whether or not within the 10% of normal. 2. Water demands above normal. 3. Time of the year is major factor. 4. No measurable rainfall in the last 30 days. 5. Weather forecast	**Moderate - Water Use Curtailment (Voluntary)**	All wells being monitored as to the static water level below the ground surface. Normal water level being 600.0 feet in Glenn Heights for the Woodbine Sand Aquifer. Maximum level is 640.0 for STAGE 2 Emergency. Previous days water demand between 60-80% of peak.	**Severe - Warning (Mandatory)**
	GRAND PRAIRIE		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	GRAPEVINE	Aug-00	**Moderate Conditions**	1. Surface water demand reaches (90% of pumping capacity- City of Grapevine/TRA WTPS)(Design 18.77 mgd), Peak 19.67 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 90% of the reduced pumping capacity.	**Severe Conditions**	1. Surface water demand reaches (95% of pumping capacity- City of Grapevine/TRA WTPS)(Design 19.82 mgd), Peak 20.77 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 100% of the reduced pumping capacity.	**Critical Conditions**
	HIGHLAND PARK	May-96	**Water Shortage Possibility**	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 527 feet MSL.	**Water Shortage Watch**	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 525 feet MSL.	**Water Shortage Warning**
	HUTCHINS		***No Emergency/Drought Contingency Plan Submitted**				
	IRVING	Aug-99	**Conservation**	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 1. 2. Water demand exceeds 90% of the current maximum flow rate contracted with DWU for 3 consecutive days. 3. Short-term deficiencies in the City's distribution system limit supply capabilities.	**Water Warning**	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 2. 2. Water demand exceeds 100% of the current maximum flow rate contracted with DWU for 5 consecutive days. 3. Water demand exceeds 103% of the current maximum flow rate contracted with DWU for 3 consecutive days. 4. Short-term deficiencies in the City's distribution system limit supply capabilities. 5. Inability to maintain or replenish volumes of storage to provide for public health and safety.	**Water Emergency**
	TRA-JOE POOL RESERVOIR	Nov-99	**IA**	WSE declines to below 519.0 feet.	**IB**	WSE declines to below 516.0 feet.	**II**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	LAKEWOOD WATER CORP. - GRAND PRAIRIE	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based- Well levels reach 295-ft MSL Demand-Based- Total daily demand reaches 85% of total pumping capacity.	**Mandatory Water Use Restrictions**
	LANCASTER		***Refer to the Ten Mile Creek Regional Wastewater System in Dallas County**				
	LEWISVILLE		***No Emergency/Drought Contingency Plan Submitted**				
	MESQUITE	Nov-99	**Mild Water Shortage Conditions**	Total daily water demand equals or exceeds 37 million gallons for 14 consecutive days or 40 million gallons for 7 consecutive days; or continually falling treated water ground reservoir levels do not refill above 60% overnight for 7 consecutive days; or continually falling treated water overhead storage levels do not refill above 60% overnight for 3 consecutive days.	**Moderate Water Shortage Conditions**	Total daily water demand equals or exceeds 40 million gallons for 7 consecutive days or 42 million gallons for 3 consecutive days; or continually falling treated water ground reservoir levels do not refill above 50% overnight for 4 consecutive days; or continually falling treated water overhead storage levels do not refill above 50% overnight for 3 consecutive days.	**Severe Water Shortage Conditions**
	OVILLA	Nov-91	**Mild Condition**	1. Water consumption has reached 80% of daily maximum supply for 3 consecutive days. 2. Supply has been reduced to 120% of average consumption for previous week. 3. There is an extended period of at least 8 weeks of low rainfall and water use has risen 20% above the use for the same period during the previous year.	**Moderate Condition**	1. Water consumption has reached 90% of daily maximum supply for 3 consecutive days. 2. The highest level measured each day in the water storage standpipe drops by 2 feet or more for 3 consecutive days.	**Severe Condition**
	PARKERVILLE EAST WATER SYSTEM - LANCASTER	Jul-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based- Stage will be initiated when overnight recovery rate reaches 5-ft.	**Mandatory Water Use Restrictions**
	RICHARDSON		***Refer to City of Richardson in Collin County**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	ROCKETT WSC	Apr-90	**Mild Drought**	1. Average daily water use is approaching 4.7 mgd (90% of firm plant capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low water pressures.	**Moderate Drought**	1. Average daily water use reaches firm plant capacity of 4.8 mgd for 3 consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 2.0 million gallons (60% capacity) for 48 hours. 3. Water pressures approaching 35 psi in the distribution system as measured by the pressure gauges in the system.	**Severe Drought**
	ROWLETT	Feb-00	**Mild Water Shortage Conditions**	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 1. 2. Total daily water demand equals 80% of the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 80% overnight.	**Moderate Water Shortage Conditions**	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 2. 2. Total daily water demand equals 90% of the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 65% overnight.	**Severe Water Shortage Conditions**
	SACHSE		***No Emergency/Drought Contingency Plan Submitted**				
	SEAGOVILLE		***No Emergency/Drought Contingency Plan Submitted**				
	SUNNYVALE		***No Emergency/Drought Contingency Plan Submitted**				
	TRA- TEN MILE CREEK REGIONAL WASTEWATER SYSTEM	Sep-96	**Mild Conditions**	Daily water demand reaches or exceeds 80% of the production capacity of the system for 5 consecutive days.	**Moderate Conditions**	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	**Severe Conditions**
	UNIVERSITY PARK		***Refer to the Town of Highland Park in Dallas County**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	UTRWD	Aug-99	**Mild Conditions**	1. Average daily water consumption reaches 90% of water treatment plant capacity for 3 consecutive days. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to be considered in impact analysis.	**Moderate Conditions**	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. One ground storage tank at the pump station or one clearwell at the water treatment plant is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during a period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	**Severe Conditions**
	WILMER		***No Emergency/Drought Contingency Plan Submitted**				
DENTON	AQUASOURCE UTILITY INC.		***Refer to AquaSource Utility Inc. in Cooke, County.**				
	ARGYLE	Sep-93	***Drought contingency plan is provided by the Argyle WSC.**				
	AUBREY	Jul-00	**Mild Water Shortage Conditions**	1. Notification from UTRWD to begin Stage 1 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 90% of the wells original capacity.	**Moderate Water Shortage Conditions**	1. Notification from UTRWD to begin Stage 2 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 85% of the wells original capacity. 3. When the total daily demands equal or exceed .400 mgd for 3 consecutive days or .425 mgd for a single day.	**Severe Water Shortage Conditions**
	BARTONVILLE		***No Emergency/Drought Contingency Plan Submitted**				
	CARROLLTON		***Refer to City of Carrollton in Dallas County**				
	CEDAR HILL		***Refer to City of Cedar Hill in Dallas County**				
	TRA- CENTRAL REGIONAL WASTEWATER SYSTEM		***Refer to Central Regional Wastewater System in Dallas County**				
	COPPER CANYON		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	CORINTH		***No Emergency/Drought Contingency Plan Submitted**				
	CROSSROADS		***No Emergency/Drought Contingency Plan Submitted**				
	DALLAS(DWU)		***Refer to City of Dallas in Dallas County**				
	DENTON	Nov-99	**Water Awareness**	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 65% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 3 consecutive days. Type C- Water demand approaches a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	**Water Watch**	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 55% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 5 consecutive days. Type C- Water demand equals a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	**Water Warning**
	DOUBLE OAK		***No Emergency/Drought Contingency Plan Submitted**				
	FLOWER MOUND		***No Emergency/Drought Contingency Plan Submitted**				
	FRISCO		***No Emergency/Drought Contingency Plan Submitted**				
	HEBRON		***No Emergency/Drought Contingency Plan Submitted**				
	HICKORY CREEK		***No Emergency/Drought Contingency Plan Submitted**				
	HIGHLAND VILLAGE		***No Emergency/Drought Contingency Plan Submitted**				
	JUSTIN	Feb-89	**Mild Conditions**	1. Daily demand exceeds 200,000 gpd for 3 consecutive days. 2. Distribution pressure remains below 45 psi for more than 6 consecutive hours.	**Moderate Conditions**	1. Daily demand exceeds 220,000 gpd for 3 consecutive days. 2. Distribution pressure remains below 40 psi for more than 6 consecutive hours. 3. Elevated storage reservoir remains below 50 percent of full capacity for more than 2 consecutive days. 4. Failure of one well simultaneous to a mild condition occurrence.	**Severe Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	KNOB HILL WATER SYSTEM-LITTLE ELM	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based- Storage capacity not being maintained during 100% rated production by one pump or storage tank out of service. Demand-Based- 1. Total daily demand reaches 90% of pumping capacity. 2. Production or distribution limitations.	**Mandatory Water Use Restrictions**
	KRUGERVILLE		***No Emergency/Drought Contingency Plan Submitted**				
	KRUM		***No Emergency/Drought Contingency Plan Submitted**				
	LAKE DALLAS(LAKE CITIES MUA)	Sep-93	**Mild Conditions**	1. Average daily water consumption reaches 90% of rated production capacity for a 3 day period. 2. Weather conditions are to be considered in determining severity of water navigability. Predicted long, cold or hot, dry periods need to be considered.	**Moderate Conditions**	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	**Severe Conditions**
	LAST RESORT PROPERTIES - LITTLE ELM	Aug-00	**Customer Awareness**	Stage I will begin every April 1 and end September 30.	**Voluntary Water Conservation**	Production or distribution limitations; or pressure drops	**Mandatory Water Use Restrictions**
	LEWISVILLE		***No Emergency/Drought Contingency Plan Submitted**				
	LINCOLN PARK		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	LITTLE ELM	Mar-91	**Mild Drought**	1. Average daily water consumption reaches 90% of water treatment plant capacity exists for 3 consecutive days. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to be considered in impact analysis.	**Moderate Drought**	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. Weather conditions indicate mild drought will exist 5 days or more. 3. One ground storage tank or one clearwell is taken out of service during a period of mild water unavailability. 4. Storage capacity is not being maintained during a period of 100% rated production. 5. Existence of any one listed condition for a duration of 36 hours.	**Severe Conditions**
	MUSTANG WSC	Feb-93	**Mild Rationing Conditions**	Peak daily water use is approaching 75% of potential daily production rate (existing volume 588,600 gpd) for 3 consecutive days. Consideration will be given to time of year and weather conditions.	**Limited Water Use Conditions**	The potential daily production rate is reduced due to failure in the water plant's mechanical capabilities, therefore refilling the water storage facilities is rendered impossible. The restriction will be inforced if repairs can not be made within 48 hrs.	**Moderate Rationing Conditions**
	NORTHLAKE		***No Emergency/Drought Contingency Plan Submitted**				
	OAK POINT		***No Emergency/Drought Contingency Plan Submitted**				
	P & M SERVICE COMPANY - LITTLE ELM	Aug-00	**Customer Awareness**	Stage I will begin every April 1 and end September 30.	**Voluntary Water Conservation**	Daily usage exceeds 20,000 gpd.	**Mandatory Water Use Restrictions**
	PILOT POINT		***No Emergency/Drought Contingency Plan Submitted**				
	PILOT POINT RURAL WSC	Aug-00	**Customer Awareness**	Stage I will begin every April 1 and end September 30.	**Voluntary Water Conservation**	Well production exceeds 189,000 gallons per week and pumps pump for 18 hours a day.	**Mandatory Water Use Restrictions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	PLANO	Oct-99	**Water Warning**	Inability to recover 90% in all storage facilities within a 24-hour period.	**Stage 2 & 3 are missing from the report**	1. General or Geographic emergency 2. Water system failures/emergencies 3. Supply failure from NTMWD 4. An inability to recover 90% in all storage facilities within a 24-hour period. 5. An inability to recover 90% in all storage facilities within 48-hour period.	
	PONDER		***No Emergency/Drought Contingency Plan Submitted**				
	ROANOKE		***No Emergency/Drought Contingency Plan Submitted**				
	SANGER	Mar-96	**Mild Drought**	1. Peak daily water use is approaching 880,000 gpd, or 80% of the water supply rated as 1,100,000 gpd, for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year.	**Moderate Drought**	1. Peak daily water use is approaching 990,000 gpd, or 90% of the water supply rated as 1,100,000 gpd, for 3 consecutive days.	**Severe Drought**
	SHADY SHORES		***No Emergency/Drought Contingency Plan Submitted**				
	SOUTHLAKE		***No Emergency/Drought Contingency Plan Submitted**				
	SOUTHLAKE PARK SERVICES, INC.-SOUTHLAKE	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	Water level less than 13-ft above pump depth. Production or distribution limitations occur.	**Mandatory Water Use Restrictions**
	TECON WATER COMPANIES	Aug-00	**Mild Water Shortage Conditions**	Annually beginning on May 1 through September 30.	**Moderate Water Shortage Conditions**	1. When the water supply available to TWCI is equal or to less than 60% of storage. 2. When notification is received from the Public Water Regulatory authority or the wholesale water supplier requesting initiation of Stage 1 of the drought plan. 3. When the static water level in the TWCI wells is equal to or less than 40-feet below normal.	**Severe Water Shortage Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	THE COLONY	Sep-90	**Mild Conditions**	1. DWU declares STAGE 1 or the average daily water consumption reaches 90% of delivery capacity. 2. Consumption (90%) has existed for a period of 3 days. 3. Weather conditions are to considered in drought classification determination.	**Moderate Conditions**	1. DWU declares STAGE 2 or the average daily water consumption reaches 90% of rated delivery capacity for a 3 day period. 2. Weather conditions indicate a mild drought will exist for 5 days or more. 3. The ground storage reservoirs or elevated tanks are taken out of service. 4. Water levels in the elevated tanks or ground storage reservoirs is not being maintained during period of 100% rated production for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and can not be repaired within 12 hours.	**Severe Conditions**
	TROPHY CLUB MUNICIPAL UTILITY DISTRICT	Aug-00	**Water Awareness**	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 1 restrictions.	**Water Watch**	Daily water demand reaches 95% of the production capacity of the system for 2 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 2 restrictions.	**Water Warning**
	UNIVERSITY PARK		***Refer to the Town of Highland Park in Dallas County**				
	UTRWD		***Refer to the UTRWD in Dallas County**				
	VACATION VILLAGE WATER SUPPLY - DENTON	Aug-00	**Customer Awareness**	Stage I will begin every April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based: Reservoir elevation reaches 10-ft MSL. Demand-Based: Total daily demand 110% of the total pumping capacity for 3 consecutive days.	**Mandatory Water Use Restrictions**
ELLIS	TRA-BARDWELL RESERVOIR	Jul-94	**IA**	WSE declines to below 419.0 feet.	**IB**	WSE declines to below 417.0 feet.	**II**
	BUENA VISTA-BETHEL SPECIAL UTILITY DISTRICT	Aug-00	**Mild Water Shortage Conditions**	Average daily well pump run time is eighteen hours for three consecutive days.	**Moderate Water Shortage Conditions**	Average daily well pump run time is 20 hours for three consecutive days and the net water storage is continually decreasing on a daily basis.	**Severe/Emergency Water Shortage Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	CEDAR HILL		***No Emergency/Drought Contingency Plan Submitted**				
	TRA- CENTRAL REGIONAL WASTEWATER SYSTEM		***Refer to Central Regional Wastewater System in Dallas County**				
	ENNIS	Jul-99	**Mild Conditions/Water Watch**	The water supply available from Lake Bardwell is equal to or less than 26,778 acre-feet, the lake elevation is at 415 -420 feet MSL the normal lake storage is at 55% or the daily potable water supply system demand is at 85+% capacity.	**Moderate Conditions/Water Warning**	The water supply available from Lake Bardwell is equal to or less than 22,064 acre-feet, the lake elevation is at 413 -414 feet MSL the normal lake storage is at 50% or the daily potable water supply system demand is at 90+% capacity.	**Emergency Conditions/Water Emergency**
	FERRIS		***Refer to the Ten Mile Creek Regional Wastewater System in Dallas County**				
	GARRETT	Sep-00	**Voluntary Water Use Restrictions**	When, pursuant to requirements specified in the Community Water Company wholesale water purchase contract with the City of Ennis, notification is received requesting initiation of Mild drought conditions.	**Mild Water Use Restrictions**	When, pursuant to requirements specified in the Community Water Company wholesale water purchase contract with the City of Ennis, notification is received requesting initiation of Moderate drought conditions.	**Moderate Water Use Restrictions**
	GLENN HEIGHTS		***Refer to the City of Glenn Heights in Dallas County**				
	ITALY	Jun-00	**Mild Water Shortage Conditions**	Total daily demand equals or exceeds 350,000 gallons for 5 consecutive days or 400,000 gallons on a single day.	**Moderate Water Shortage Conditions**	Total daily demand equals or exceeds 400,000 gallons for 5 consecutive days or 425,000 gallons on a single day.	**Severe Water Shortage Conditions**
	TRA-JOE POOL RESERVOIR		***Refer to Joe Pool Reservoir in Dallas County**				
	MANSFIELD		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	MAYPEARL		***No Emergency/Drought Contingency Plan Submitted**				
	MIDLOTHIAN	Jul-92	**Mild Conditions**	Joe Pool Lake water elevations are between 506-510 feet MSL, and water demand has reached 75% of the treatment plant's max. daily demand for two consecutive weeks.	**Moderate Conditions**	Joe Pool Lake water elevations are between 496-506 feet MSL; or water demand has reached 90% of the treatment plant's max. daily demand for 5 consecutive days, and if no more rain occurs, Joe Pool Lake has an 18-month supply in storage.	**Severe Conditions**
	MILFORD		***No Emergency/Drought Contingency Plan Submitted**				
	OAK LEAF		***No Emergency/Drought Contingency Plan Submitted**				
	OVILLA		***Refer to City of Ovilla in Dallas County**				
	PALMER		***No Emergency/Drought Contingency Plan Submitted**				
	PECAN HILL		***No Emergency/Drought Contingency Plan Submitted**				
	RED OAK		***No Emergency/Drought Contingency Plan Submitted**				
	ROCKETT WSC	Apr-90	**Mild Drought**	1. Average daily water use is approaching 4.7 mgd (90% of firm plant capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low water pressures.	**Moderate Drought**	1. Average daily water use reaches firm plant capacity of 4.8 mgd for 3 consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 2.0 million gallons (60% capacity) for 48 hours. 3. Water pressures approaching 35 psi in the distribution system as measured by the pressure gauges in the system.	**Severe Drought**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	RURAL BARDWELL WSC	Aug-00	**Mild Water Shortage Conditions**	Reservoirs levels do not refill above 90% overnight.	**Moderate Water Shortage Conditions**	Reservoirs levels do not refill above 85% overnight.	**Severe Water Shortage Conditions**
	SOUTH ELLIS COUNTY WSC	Jun-00	**Mild Water Shortage Conditions**	Total daily demand equals or exceeds 220,000 gallons for 5 consecutive days or 250,000 gallons on a single day.	**Moderate Water Shortage Conditions**	Total daily demand equals or exceeds 250,000 gallons for 5 consecutive days or 275,000 gallons on a single day.	**Severe Water Shortage Conditions**
	TRA- TEN MILE CREEK REGIONAL WASTEWATER SYSTEM		***Refer to the Ten Mile Creek Regional Wastewater System in Dallas County**				
	WALTER J. CARROLL WATER COMPANY- RED OAK	Sep-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	Overnight recovery rate reaches 30-ft or production or distribution limitations.	**Mandatory Water Use Restrictions**
	WAXAHACHIE	Sep-96	**Stage 0**	Monitor weather conditions, activate Lake Bardwell Pump Station at elevation 529 feet.	**Stage 1**	Lake elevation drops to 527 feet.	**Stage 2**
FANNIN	ARLEDGE RIDGE WSC	Jun-00	**Mild Water Shortage Conditions**	Continually falling treated water reservoir levels which do not refill above 100% overnight.	**Moderate Water Shortage Conditions**	Continually failing treated water reservoir levels which do not refill above 90% overnight.	**Severe Water Shortage Conditions**
	DESERT WSC		***Refer to the Desert WSC in Collin County**				
	HONEY GROVE		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	SOUTHWEST FANNIN COUNTY WATER SUPPLY CORP.	Feb-00	**Mild Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 100% overnight.	**Moderate Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 90% overnight.	**Severe Water Shortage Conditions**
	LEONARD (WEST LEONARD WSC)		***Refer to the West Leonard WSC in Collin County**				
	SAVOY	Jul-00	**Mild Water Shortage Conditions**	Total daily water demand exceeds 80% or .0884 mgd for 5 consecutive days.	***Remaining stages missing from handout**		
	TRENTON		***No Emergency/Drought Contingency Plan Submitted**				
	WINDOM	Dec-99	**Mild Water Shortage Conditions**	Total daily water demands equal or exceed 75% of the safe operating capacity of 100,000 gallons per day for 30 consecutive days.	**Moderate Water Shortage Conditions**	Total daily water demands equal or exceed 95% of the safe operating capacity of 100,000 gallons per day for 30 consecutive days.	**Severe Water Shortage Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
FREESTONE	BRAZOS RIVER AUTHORITY	Aug-99	**Drought Watch Conditions**	1. The local use reservoir is at or below 50% of its total active water supply capacity and reasonable estimates of current annual demands, coupled with inflows and evaporation representative of the drought of record, indicate that the amount of water supply in storage could be reduced during the next succeeding 12-month period to 40% or less of its total active water supply capacity. 2. The total storage in all system reservoirs is at or below 75% of the total active water supply capacity and reasonable estimates of current annual demands, coupled with inflows and evaporation representative of the drought of record, indicate that the amount of water supply in storage could be reduced during the next succeeding 12-month period to 60% or less of its total active water supply capacity.	**Drought Warning Conditions**	1. The local use reservoir is at or below 40% of its total active water supply capacity and reasonable estimates of current annual demands, coupled with inflows and evaporation representative of the drought of record, indicate that the amount of water supply in storage could be reduced during the next succeeding 12-month period to 30% or less of its total active water supply capacity. 2. The total storage in all system reservoirs is at or below 60% of the total active water supply capacity and reasonable estimates of current annual demands, coupled with inflows and evaporation representative of the drought of record, indicate that the amount of water supply in storage could be reduced during the next succeeding 12-month period to 30% or less of its total active water supply capacity.	**Drought Emergency Conditions**
	DONIE (DONIE WATER WORKS, INC.)	Aug-00	**Customer Awareness**	Begins every April 1 and lasts until September 30.	**Voluntary Water Conservation**	**Demand-Based -** Total daily demand is 50% of pumping capacity. Total daily demand is 150% of storage capacity.	**Mandatory Water Use Restrictions**
	FAIRFIELD		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	MOODY WATER SYSTEM-CENTERVILLE	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based - Stage will be implemented when any pump/well malfunctions which reduce or impair the maximum pumping capacity of any well; or any mainline break which impairs the storage or pumping capacity. Demand-Based - Pump hours reach or exceed 20-21 hrs per day.	**Mandatory Water Use Restrictions**
	TEAGUE		***No Emergency/Drought Contingency Plan Submitted**				
	THOMPSON WATER AND CONSTRUCTION-FAIRFIELD	Aug-00	**Mild Rationing Conditions**	*No triggering conditions supplied	**Moderate Rationing Conditions**	*No triggering conditions supplied	**Severe Rationing Conditions**
	WESTWOOD UTILITY CORP.-FAIRFIELD	Jul-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	Any pump/well malfunctions which reduce or impair the max. pumping capacity of any well; or any mainline break which impairs the storage or pumping capacity of the plant. Pumping exceeds 20-21 hours per day.	**Mandatory Water Use Restrictions**
	WORTHAM	Jul-98	**Mild Conditions**	1. Average daily water consumption reaches 90% of plant capacity for 3 consecutive days. 2. Water level in Lake Wortham drops below 85% of full capacity.	**Moderate Conditions**	1. Average daily water consumption reaches 100% of plant capacity for 3 consecutive days. 2. Water level in Lake Wortham drops below 65% of full capacity. 3. City of Mexia water supply is in time of drought, and requiring storage tank near Mexia to be filled at a specified time.	**Severe Conditions**
GRAYSON	AQUASOURCE UTILITY INC.		***Refer to AquaSource Utility Inc. in Cooke, County.**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	BELLS	Oct-00	**Mild Response**	Loss of over one-third of water production from total pumpage of well #1, well #3 and well #4.	**Serve Response**	Depletion of 30% of storage tanks and inability to maintain 60% of storage capacity.	**Emergency -Water Shortage Conditions**
	COLLINSVILLE		***No Emergency/Drought Contingency Plan Submitted**				
	DENISON	Sep-99	**Mild Water Shortage Conditions**	Denison WTP has treated and distributed 10 mgd for 30 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	**Severe Water Shortage Conditions**	Denison WTP has treated and distributed 11 mgd for 10 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	**Critical Water Shortage Conditions**
	GUNTER		***No Emergency/Drought Contingency Plan Submitted**				
	HOWE		***No Emergency/Drought Contingency Plan Submitted**				
	KENTUCKYTOWN WSC	May-00	**Mild Water Shortage Conditions**	When continually falling treated water reservoir levels which don not refill above 100% overnight or on such occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Moderate Water Shortage Conditions**	When continually falling treated water reservoir levels which don not refill above 90% overnight or on such occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Severe Water Shortage Conditions**
	LUELLA		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	NORTHERN HILL DEVELOPMENT COMPANY, INC.- DENISON	Jul-00	**Customer Awareness**	Upon notice from the utility's wholesale supplier to begin stage 1; or when distribution limitations of its supplier reaches 70% of its capacity.	**Voluntary Water Conservation**	Upon notice from the utility's wholesale supplier to begin stage 2; or when distribution limitations of its supplier reaches 80% of its capacity.	**Mandatory Water Use Restrictions**
	NORTHWEST GRAYSON COUNTY WCID NO. 1	Jul-93	**Drought Watch**	Due to diminishing water levels in the Trinity Aquifer, the combined well production declines to 75% of the rated well capacities, and the water demand approaches 75% of the system capacity.	**Drought Warning**	Due to diminishing water levels in the Trinity Aquifer, the combined well production declines to 65% of the rated well capacities, and the water demand reaches 100% of the system capacity.	**Drought Emergency**
	OAK RIDGE - SOUTH GALE WSC	Aug-00	**Mild Water Shortage Conditions**	City of Denison will give notification to implement stage 1 of the drought plan.	**Moderate Water Shortage Conditions**	City of Denison will give notification to implement stage 2 of the drought plan.	**Severe Water Shortage Conditions**
	Pink Hill Water Supply Corp. - BELLS	Apr-00	**Mild Water Shortage Conditions**	City of Sherman will notify Pink Hill Water Supply requesting initiation of Stage 1.	**Moderate Water Shortage Conditions**	City of Sherman will notify Pink Hill Water Supply requesting initiation of Stage 2; or the specific capacity of the PHWS well is less than or equal to 90% of its original capacity; or total daily demand equals or exceeds the PHWS safe operating capacity.	**Severe Water Shortage Conditions**
	POTTSBORO		***No Emergency/Drought Contingency Plan Submitted**				
	PRESTON CLUB-SHERMAN	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based: Over night recovery rate reaches 30%. Demand-Based: Pump hours per day are at 80%.	**Mandatory Water Use Restrictions**
	SHERMAN		***No Emergency/Drought Contingency Plan Submitted**				
	SOUTHMAYD		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	SOUTHWEST FANNIN COUNTY WATER SUPPLY CORP.	Feb-00	**Mild Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 100% overnight.	**Moderate Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 90% overnight.	**Severe Water Shortage Conditions**
	STARR WSC-DENISON	May-00	**Mild Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 100% overnight; or on such occasion as a water well may be temp. out of service.	**Moderate Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 90% overnight; or on such occasion as a water well may be temp. out of service.	**Severe Water Shortage Conditions**
	TECON WATER COMPANIES		***Refer to the Tecon Water Companies in Denton County.**				
	THE OAKS WATER SYSTEM-SHERMAN		***Refer to Preston Club in Grayson County.**				
	TIOGA	May-93	**Mild Conditions**	Daily water demand exceeds 175,000 gpd for 3 consecutive days (50% of rated capacity of the wells)	**Moderate Conditions**	1. Daily water demand exceeds 212,000 gpd for 3 consecutive days (60% of rated capacity of the wells). 2. Water pressures in distribution system remain below 40 psi for more than 6 consecutive hours. 3. Failure of either well, coupled with demand over 75,000 gpd (75% of capacity of the small well).	**Severe Conditions**
	TOM BEAN		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	VAN ALSTYNE	Aug-00	**Mild Water Shortage Conditions**	Stage is initiated when continually falling treated water reservoir levels which do not refill above 100% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Moderate Water Shortage Conditions**	Stage is initiated when continually falling treated water reservoir levels which do not refill above 90% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Severe Water Shortage Conditions**
	WHITESBORO		***No Emergency/Drought Contingency Plan Submitted**				
	WSW COMPANY-SHERMAN		***Refer to Preston Club in Grayson County.**				
HENDERSON	ATHENS	Apr-99	**Mild Water Shortage Conditions**	Daily usage exceeds 4.5 mgd.	**Moderate Water Shortage Conditions**	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 80% overnight.	**Severe Water Shortage Conditions**
	ATHENS(Bethel-Ash Water Supply Corp.)	Apr-00	**Moderate Water Shortage Conditions**	Gallons pumped per month exceed 20,500,000 gallons.	**Severe Water Shortage Conditions**	Gallons pumped per month exceed 23,000,000 gallons.	**Critical Water Shortage Conditions**
	CANEY COVE WSC- MALAKOFF	Aug-00	**Voluntary Water Use Restrictions**	Stage will be implemented when the total pump hours per day equals or exceeds 16-hrs.	**Mandatory Water Use Restrictions**	Total daily demand equals or exceeds 90% of the storage capacity, and the pump hours per day equals or exceeds 18.	**Critical Water Use Conditions**
	CROSS ROADS COMMUNITY WSC-ATHENS	Aug-00	**Voluntary Water Conservation**	Stage will be implemented when the total pump hours per day equals or exceeds 16-hrs.	**Mandatory Water Use Restrictions**	Stage will be implemented when the total pump hours per day equals or exceeds 18-hrs.	**Critical Water Use Restrictions**
	DOGWOOD ESTATES WC-ATHENS	Oct-00	**Customer Awareness**	Stage to begin every year starting April 1 and lasting until September 30.	**Voluntary Water Conservation**	Water level in storage tanks approaches 20% of capacity.	**Mandatory Water Use Restrictions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	EAST CEDAR CREEK FRESH WATER SUPPLY DISTRICT	Aug-99	**Mild Water Shortage Conditions**	Daily water demand consumption exceeds 80% of WTP capacity; or storage tank levels do not refill above 95% overnight.	**Moderate Water Shortage Conditions**	Daily water demand consumption exceeds 85% of WTP capacity; or storage tank levels do not refill above 85% overnight.	**Severe Water Shortage Conditions**
	EUSTACE		***No Emergency/Drought Contingency Plan Submitted**				
	GUN BARREL CITY		***No Emergency/Drought Contingency Plan Submitted**				
	MABANK		***No Emergency/Drought Contingency Plan Submitted**				
	MALAKOFF		***No Emergency/Drought Contingency Plan Submitted**				
	OAKWOOD POA-ATHENS	Jul-00	**Customer Awareness**	Will begin every April 1 and last until September 30.	**Voluntary Water Conservation**	Total daily demand reaches 60% of total pumping capacity.	**Mandatory Water Use Restrictions**
	PAYNE SPRINGS		***No Emergency/Drought Contingency Plan Submitted**				
	POINT ROYAL WATER SYSTEM-CHANDLER	Aug-00	**Customer Awareness**	Will begin every April 1 and last until September 30.	**Voluntary Water Conservation**	Supply-Based Triggers: Well level reaches 194-ft MSL	**Mandatory Water Use Restrictions**
	SEVEN POINTS		***No Emergency/Drought Contingency Plan Submitted**				
	TECON WATER COMPANIES		***Refer to the Tecon Water Companies in Denton County.**				
	TOOL		***No Emergency/Drought Contingency Plan Submitted**				
	TRINIDAD	Aug-00	**Mild Water Shortage Conditions**	The water supply available to the City of Trinidad is equal to or less than 230 acre-feet.	**Moderate Water Shortage Conditions**	The water supply available to the City of Trinidad is equal to or less than 155 acre-feet.	**Severe Water Shortage Conditions**
	UPPER NECHES RIVER MUNICIPAL WATER AUTHORITY	Apr-97	**Mild Conditions**	1. Daily water demand reaches the level of 90% of system capacity for three consecutive days. 2. Distribution pressure remains below normal for more than six consecutive hours.	**Moderate Conditions**	1. Daily water demands reach 100% of system capacity for three consecutive days. 2. The supply of water is continually decreasing on a daily basis and the water supply utility is advised to conserve by UNRMWA, the TNRCC, or TDH. 3. Decrease in the water pressures in the distribution system as measured by the pressure gauges and customer complaints.	**Severe Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	WEST CEDAR CREEK FRESH WATER SUPPLY DISTRICT	Jul-99	**Mild Drought**	1. Average daily water use reaches 3,812,400 gpd (90% of firm line capacity) for three consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low water pressure.	**Moderate Drought**	1. Average daily water use reaches firm line capacity of 3.0 mgd for three consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 572,000 gallons (60% capacity) for 48 hours. 3. Water pressures reach 35 psi in the distribution system as measured by the pressure gauges in the system.	**Severe Drought**
	WILDEWOOD WATER COMPANY, INC. - CHANDLER	Aug-00	**Customer Awareness**	Will begin every April 1 and last until September 30.	**Voluntary Water Conservation**	Total daily demand equals or exceeds 90% of the daily well production capacity for 3 consecutive day or 100% on a single day.	**Mandatory Water Use Restrictions**
JACK	BRAZOS RIVER AUTHORITY		***Refer to the Brazos River Authority in Freestone County**				
	BRYSON	Aug-00	**Mild Water Shortage Conditions**	When the reservoir level reaches the 50% level.	**Moderate Water Shortage Conditions**	When the reservoir level reaches the 40% level.	**Severe Water Shortage Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	JACKSBORO	Jun-88	**Mild Conditions**	1. Treatment plant production exceeds 0.9 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.8 mgd. 3. The lake level in Lake Jacksboro reaches an elevation of 1006 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1400 acre-feet (after first fill of Lost Creek Reservoir).	**Moderate Conditions**	1. Treatment plant production exceeds 1.0 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.6 mgd during October through May or 0.8 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1005 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1200 acre-feet (after first fill of Lost Creek Reservoir).	**Severe Conditions**
JOHNSON	BURLESON		***No Emergency/Drought Contingency Plan Submitted**				
	CAHILL COUNTRY WSC- ALVARADO	Aug-00	**Customer Awareness**	Stage will begin every April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based - Production falls below 30 gpm.	**Mandatory Water Use Restrictions**
	CREST WATER COMPANY- KEENE	Sep-00	**Customer Awareness**	Stage will begin every April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based - Storage Tanks are 50% capacity or less at 8 am for 3 consecutive days. Demand-Based - Pumps hours per day approach 20-hrs for three consecutive days.	**Mandatory Water Use Restrictions**
	MANSFIELD		***No Emergency/Drought Contingency Plan Submitted**				
	MEADOWCREEK LANE WATER COMPANY-BURLESON	Aug-00	**Customer Awareness**	Stage will begin every April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based - 100% overnight tank recovery; raise water rates' restrictive billings. Demand-Based - Production or distribution limitations.	**Mandatory Water Use Restrictions**
	TECON WATER COMPANIES		***Refer to the Tecon Water Companies in Denton County.**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
KAUFMAN	ABLES SPRINGS WATER SUPPLY CO. - TERRELL	Jul-00	**Mild Conditions**	1. Water consumption has created plant to produce water at 75% of capacity for three consectutive days. 2. There is an extended period (at least 8 weeks) of low rainfall.	**Moderate Conditions**	1. Must be implemented when The Macbee Treatment Plant exceeds 70 % of the safe operating capacity of 2 mgpd for 15 consecutive days or 80% on a single day.	**Severe Conditions**
	COLLEGE MOUND WSC	Dec-87	**Mild Drought**	1. Average daily water use reaches 0.45MGD (90% of firm plant capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low pressures.	**Moderate Drought**	1. Average daily water use reaches 0.756 MGD for 3 consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 460,000 gallons (60% capacity) for 48 hours. 3. water pressures approaching 35 psi in the distribution system.	**Severe Drought**
	COMBINE		***No Emergency/Drought Contingency Plan Submitted**				
	CRANDALL	Nov-89	**Mild Conditions**	1. Daily water demand exceeds 700,000 gallons per day for three consecutive days. 2. Distribution pressure remains below 45 psi for more than six consecutive hours.	**Moderate Conditions**	1. Daily water demand exceeds 850,000 gallons per day for three consecutive days. 2. Distribution pressure remains below 40 psi for more than six consecutive hours. 3. Storage remains below 75% of total storage capacity (625,000 gallons) for more than 2 consecutive days.	**Severe Conditions**
	DALLAS(DWU)		***Refer to City of Dallas in Dallas County**				
	FORNEY		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	GASTONIA - SCURRY WSC	Mar-88	**Mild Drought**	1. Average daily water use reaches 0.9 MGD (90% of firm plant capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low pressures.	**Moderate Drought**	1. Average daily water use reaches 0.5 MGD for 3 consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 270,000 gallons (60% capacity) for 48 hours. 3. water pressures approaching 35 psi in the distribution system.	**Severe Drought**
	KAUFMAN	Oct-99	**Mild Conditions**	Daily water demand exceeds 2,000,000 gpd for 3 consecutive days; or water pressure in system remains below 45 psi for 6 consecutive hours; or water levels in Lake Lavon fall between 482-475 feet MSL.	**Moderate Conditions**	Daily water demand exceeds 2,200,000 gpd for 3 consecutive days; or water pressure in system remains below 40 psi for 6 consecutive hours; or ground water storage reservoir remains below 70% of total storage for 3 consecutive days; or failure of raw water transmission line from NTMWD for more than 6 consecutive hours; or water levels in Lake Lavon fall between 475-468 feet MSL.	**Severe Conditions**
	MABANK		***No Emergency/Drought Contingency Plan Submitted**				
	OAK GROVE		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	OAK GROVE TEXAS WSC-OAKGROVE	Jun-00	**Mild Water Shortage Conditions**	When provider City of Kaufman requests initiation of Stage 1; or when the total daily demand equals or exceeds 85% of the supply capacity per day for 3 consecutive days or 95% on a single day.	**Moderate Water Shortage Conditions**	When provider City of Kaufman requests initiation of Stage 2; or when the total daily demand equals or exceeds 90% of the supply capacity per day for 3 consecutive days or 100% on a single day.	**Severe Water Shortage Conditions**
	ROSE HILL WSC	Mar-87	**Mild Drought**	1. Average daily water use reaches 0.236 MGD (90% of firm plant capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low pressures.	**Moderate Drought**	1. Average daily water use reaches 0.262 MGD for 3 consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 180,000 gallons (60% capacity) for 48 hours. 3. Water pressures approaching 35 psi in the distribution system.	**Severe Drought**
	SOUTHEAST KAUFMAN WSC - KAUFMAN	Aug-00	**Mild Conditions**	1. Daily water demand exceeds 2 mgd for 3 consecutive days. 2. Water pressure in distribution system remains below 45 psi for more than 6 hours. 3. Water levels in Lake Lavon fall between 482 to 475 feet MSL.	**Moderate Conditions**	1. Daily water demand exceeds 2.2 mgd for 3 consecutive days. 2. Water pressure in distribution system remains below 40 psi for more than 6 hours. 3. Ground storage reservoir remains below 70% of total storage for more than 3 consecutive days. 4. Water levels in Lake Lavon fall between 475 to 468 feet MSL.	**Severe Conditions**

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	TALTY WSC - FORNEY	Aug-00	**Mild Water Shortage Conditions**	Notification from the City of Forney to initiate stage 1, or when the total daily demand equals or exceeds 85% of the supply capacity per day for 3 consecutive days or 95% in a single day.	**Moderate Water Shortage Conditions**	Notification from the City of Forney to initiate stage 2, or when the total daily demand equals or exceeds 90% of the supply capacity per day for 3 consecutive days or 100% in a single day.	**Severe Water Shortage Conditions**
	TERRELL	Jan-00	**Mild Water Shortage Conditions**	Water in storage in the New Terrell City Lake is equal to or less than ___(acre-feet and/or percentage of storage capacity).	**Moderate Water Shortage Conditions**	When the water supply available to the City of Terrell is equal to or less than ____(acre-feet, percentage of storage, etc.).	**Severe Water Shortage Conditions**
NAVARRO	BLOOMING GROVE		***No Emergency/Drought Contingency Plan Submitted**				
	CHAMBERS MEADOW WATER-FROST	Aug-00	**Customer Awareness**	Stage will begin every April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based - Overnight recovery rate reaches 4-ft. Demand-Based - Pumps hours per day is 14.	**Mandatory Water Use Restrictions**
	COMMUNITY WATER COMPANY - CORSICANA	Aug-00	**Voluntary Water Use Restrictions**	Stage will begin upon notification from the City of Corsicana.	**Mild Water Use Restrictions**	Stage will begin upon notification from the City of Corsicana.	**Moderate Water Use Restrictions**
	CORSICANA		***No Emergency/Drought Contingency Plan Submitted**				
	DAWSON		***No Emergency/Drought Contingency Plan Submitted**				
	FROST		***No Emergency/Drought Contingency Plan Submitted**				
	KERENS		***No Emergency/Drought Contingency Plan Submitted**				
	MEN WSC-CORSICANA	Aug-00	**Mild Water Shortage Conditions**	Stage will begin upon notification from the City of Corsicana.	**Moderate Water Shortage Conditions**	Stage will begin upon notification from the City of Corsicana.	**Severe Water Shortage Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	TRA-NAVARRO MILLS RESERVOIR	Nov-99	**IA**	WSE declines to below 422.5 feet.	**IB**	WSE declines to below 421.5 feet.	**II**
	NORTHTOWN ACRES WATER SUPPLY- DAWSON	Aug-00	**Customer Awareness**	Stage will begin every April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based - Wholesale will notify to implement stage 2 of drought contingency plan(City of Corsicana). Demand-Based - Production or distribution limitations.	**Mandatory Water Use Restrictions**
	RICE		***No Emergency/Drought Contingency Plan Submitted**				
	RICHLAND	Aug-00	**Mild Water Shortage Conditions**	Stage will begin upon notification from the City of Corsicana.	**Moderate Water Shortage Conditions**	Stage will begin upon notification from the City of Corsicana.	**Severe Water Shortage Conditions**
PARKER	ALEDO		***No Emergency/Drought Contingency Plan Submitted**				
	ANNETTA		***No Emergency/Drought Contingency Plan Submitted**				
	AQUASOURCE UTILITY INC.		***Refer to AquaSource Utility Inc. in Cooke, County.**				
	AZLE		***No Emergency/Drought Contingency Plan Submitted**				
	BFE WATER COMPANY-WEATHERFORD	Jul-00	**Customer Awareness**	Will begin every April 1 and last until September 30.	**Voluntary Water Conservation**	**Supply-Based-** Water consumption has reached 80% of daily max supply for 3 consecutive days. **Demand-Based-** There is an extended period(at least 8 weeks) of low rainfall and daily use has risen 20% above the use for the same period during the previous year.	**Mandatory Water Use Restrictions**
	BLUEBERRY HILL HOMEOWNERS ASSC.	Jul-00	**Voluntary Water Use Restrictions**	Stage will begin on April 1	**Mild Water Use Restrictions**		**Moderate Water Use Restrictions**
	BRAZOS RIVER AUTHORITY		***Refer to the Brazos River Authority in Freestone County**				
	BRAIR		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	CRAZY HORSE WATER CO.- WEATHERFORD	Jul-00	**Customer Awareness**	Will begin every April 1 and last until September 30.	**Voluntary Water Conservation**	**Supply-Based-** Overnight recovery rate reaches 10-feet. **Demand-Based-** Production or distribution limitations occur.	**Mandatory Water Use Restrictions**
	CRESSON WATER WORKS	Aug-00	**Customer Awareness**	Will begin every April 1 and last until September 30.	**Voluntary Water Conservation**	**Supply-Based-** Cresson has no way to measure the well level, and when the well stops they are out of water. **Demand-Based-** Representive try to get the customers to conserve water by not watering lawns.	**Mandatory Water Use Restrictions**
	DEER CREEK WATERWORKS, INC.- ALEDO	Aug-00	**Voluntary Water Use Restrictions**	Will begin every May 1st.	**Mild Water Use Restrictions**	Total daily demand reaches 75% of production capacity per day.	**Severe Water Use Restrictions**
	DYEGARD WATER COMPANY - WEATHERFORD	Jul-00	**Customer Awareness**	Will begin every April 1 and last until September 30.	**Voluntary Water Conservation**	**Supply-Based-** Water consumption has reached 80% of daily max supply for 3 consecutive days. **Demand-Based-** There is an extended period(at least 8 weeks) of low rainfall and daily use has risen 20% above the use for the same period during the previous year.	**Mandatory Water Use Restrictions**
	HORSE BEND WATER WORKS- WEATHERFORD	Jul-00	**Customer Awareness**	Will begin every April 1 and last until September 30.	**Voluntary Water Conservation**	**Supply-Based-** Water consumption has reached 80% of daily max supply for 3 consecutive days. **Demand-Based-** There is an extended period(at least 8 weeks) of low rainfall and daily use has risen 20% above the use for the same period during the previous year.	**Mandatory Water Use Restrictions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	HIGHLAND WATER SUPPLY	Aug-00	**Mild Condition**	1. Water consumption has reached 80% of daily max supply for 3 days. 2. Water supply is reduced to a level that is only 20% greater than the average consumption for the previous month. 3. There is an extended period (at least 8 weeks) of low rainfall and daily use has risen 20% above the use for the same period during the previous year	**Moderate Conditions**	1. Water consumption has reached 90% of the available amount for 3 consecutive days. 2. The water level in any of the water storage tanks cannot be replenished for 3 consecutive days	**Severe Conditions**
	HUDSON OAKS		***No Emergency/Drought Contingency Plan Submitted**				
	MESA GRANDE WATER SUPPLY	Aug-00	**Mild Condition**	1. Water consumption has reached 80% of daily max supply for 3 days. 2. Water supply is reduced to a level that is only 20% greater than the average consumption for the previous month. 3. There is an extended period (at least 8 weeks) of low rainfall and daily use has risen 20% above the use for the same period during the previous year	**Moderate Conditions**	1. Water consumption has reached 90% of the available amount for 3 consecutive days. 2. The water level in any of the water storage tanks cannot be replenished for 3 consecutive days	**Severe Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	MILLSAP WSC	Aug-00	**Mild Drought Conditions**	1. Notification from wholesaler, City of Mineral Wells, to initate stage 1 of the plan. 2. When the average daily water consumption reaches 90% of production capacity and has existed for a period of 3 days.	**Moderate Drought Conditions**	1. Notification from wholesaler, City of Mineral Wells, to initate stage 2 of the plan. 2. When the average daily water consumption reaches 100% of production capacity and has existed for a period of 3 days. 3. Weather conditions indicate a mild drought will exist for 5 days or more or upon the mechanical failure of pumping equipment, which will require more than 24-hrs to repair.	**Severe Drought Conditions**
	MINERAL WELLS		***No Emergency/Drought Contingency Plan Submitted**				
	MOUNTAIN RIVER WATER - SANTO, PALO PINTO COUNTY	Aug-00	**Customer Awareness**	Will begin every April 1 and last until September 30.	**Voluntary Water Conservation**	Total daily demand reaches 50% of pumping capacity.	**Mandatory Water Use Restrictions**
	RENO		***No Emergency/Drought Contingency Plan Submitted**				
	SADDLE CLUB WATER COMPANY, INC.-WEATHERFORD		***Refer to the BFE Water Company**				
	SA WATER, INC.-WEATHERFORD		***Refer to the BFE Water Company**				
	SPRINGTOWN		***No Emergency/Drought Contingency Plan Submitted**				
	TECON WATER COMPANIES		***Refer to the Tecon Water Companies in Denton County.**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	WALNUT CREEK WSC	Feb-87	**Mild Drought**	1. Average daily water use reaches 1.20 mgd (90% of firm plant capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low water pressure.	**Moderate Drought**	1. Average daily water use reaches 1.40 mgd for 3 consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 600,000 gallons (60% capacity) for 48 hours. 3. Water pressures reach 35 psi in the distribution system as by the pressure gauges in the system.	**Severe Drought**
	WEATHERFORD		***No Emergency/Drought Contingency Plan Submitted**				
	WILLOW PARK		***No Emergency/Drought Contingency Plan Submitted**				
ROCKWALL	AQUASOURCE UTILITY INC.		***Refer to AquaSource Utility Inc. in Cooke, County.**				
	BHP WATER SUPPLY	Aug-00	**Mild Water Shortage Conditions**	When continually falling treated water reservoir levels do not refill above 100% overnight or on such occasion as the water suppliers curtail the delivery of water to the Corporation, or during occasions when water mains break or other operational problems hinder the systems ability to meet demands.	**Moderate Water Shortage Conditions**	When continually falling treated water reservoir levels do not refill above 90% overnight or on such occasion as the water suppliers curtail the delivery of water to the Corporation, or during occasions when water mains break or other operational problems hinder the systems ability to meet demands.	**Severe Water Shortage Conditions**
	DALLAS(DWU)		***Refer to City of Dallas in Dallas County**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	HEATH	Aug-00	**Mild Water Shortage Conditions**	Notification from the City of Rockwall(supplier) to initiate stage 1	**Moderate Water Shortage Conditions**	Notification from the City of Rockwall(supplier) to initiate stage 2	**Severe Water Shortage Conditions**
	NTMWD		***Refer to NTMWD in Collin County**				
	ROCKWALL	Dec-99	**Mild Water Shortage Conditions**	City's wholesaler, NTMWD notifies requesting initiation of STAGE 1; or the total daily water demand equals or exceeds 15.2 mgd for 3 consecutive days or 16.1 mgd on a single day.	**Moderate Water Shortage Conditions**	City's wholesaler, NTMWD notifies requesting initiation of STAGE 2; or the total daily water demand equals or exceeds 16.1 mgd for 3 consecutive days or 16.9 mgd on a single day.	**Severe Water Shortage Conditions**
	ROWLETT		***Refer to City of Rowlett in Dallas County**				
	ROYSE CITY		***No Emergency/Drought Contingency Plan Submitted**				
	WYLIE		***No Emergency/Drought Contingency Plan Submitted**				
TARRANT	AQUASOURCE UTILITY INC.		***Refer to AquaSource Utility Inc. in Cooke, County.**				
	ARLINGTON		***No Emergency/Drought Contingency Plan Submitted**				
	AZLE		***No Emergency/Drought Contingency Plan Submitted**				
	BEDFORD		***No Emergency/Drought Contingency Plan Submitted**				
	BENBROOK WSA	Aug-99	**Mild Drought**	Daily water use equals or exceeds 10.0 mgd for seven consecutive days.	**Moderate Drought**	Daily water use equals or exceeds 12.0 mgd (120% of treatment capacity) for five consecutive days; and/or water begins to drop below 35 psi in segments of the distribution system.	**Severe Drought or System Limitations**
	BRAIR		***No Emergency/Drought Contingency Plan Submitted**				
	BURLESON		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	TRA- CENTRAL REGIONAL WASTEWATER SYSTEM		***Refer to Central Regional Wastewater System in Dallas County**				
	CHUCK BELL WATER SYSTEMS-CROWLEY	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	1. When overnight recovery rate reaches less than 10-ft of head in storage. 2. Total daily demand reaches a pumping capacity of 90%. 3. Total daily demand reaches 90% of storage capacity.	**Mandatory Water Use Restrictions**
	COLLEYVILLE	Jul-94	**Mild Conditions**	1. Average daily water use is approaching 14.4 mgd (80% of system design capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low pressure.	**Moderate Conditions**	1. Average daily water use reaches system design capacity of 18.0 mgd for 3 consecutive days. 2. Net storage in elevated and ground storage reservoirs is continually decreasing on a daily basis and falls below 1.25 million gallons for a period of 72 hours. 3. Water pressures approach 40 psi in the distribution system.	**Severe Conditions**
	CROWLEY		***No Emergency/Drought Contingency Plan Submitted**				
	DALWORTHING GARDENS		***No Emergency/Drought Contingency Plan Submitted**				
	EDGECLIFF VILLAGE		***Refer to the City of Fort Worth in Tarrant County**				
	EULESS		***No Emergency/Drought Contingency Plan Submitted**				
	EVERMAN		***No Emergency/Drought Contingency Plan Submitted**				
	FOREST ACRE GARDENS WATER SYSTEM-TEXAS H2O-MANSFIELD	Aug-00	**Customer Awareness**	Stage I will begin every year on April 1 and ends September 30.	**Voluntary Water Conservation**	Supply-Based: Overnight recovery rates reach 6-feet. Demand-Based: Pumps are pumping for 14-hrs per day or a production or distribution limitations.	**Mandatory Water Use Restrictions**
	FOREST HILL		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	FOREST HILL NO. 2 WSC- FOREST HILL	Aug-00	**Water Awareness**	Stage will begin each year from May 1 through September 30.	**Water Watch**	Only Well #3 pumping and/or degraded distribution system capacity.	**Water Warning**
	FORT WORTH	Aug-99	**Water Awareness**	Water storage in TRWD West Fork Reservoirs is projected to decline to less than 295,670 acre-ft (50% of capacity) within 2 weeks, based upon projected water demand and inflows; or water storage in the TRWD reservoirs has declined to 1,426,752 acre-ft (60% of capacity); or demand for Fort Worth or TRWD exceeds 90% of deliverable capacity for 3 consecutive days; or water demands approach a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	**Water Watch**	TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	**Water Warning**
	FORT WORTH (Wholesale)	Oct-92	**Mild Conditions**	Daily water demand reaches 80% of the production capacity of the system for 3 consecutive days.	**Moderate Conditions**	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days.	**Severe Conditions**
	FRIENDLY OAKS WSC	Aug-00	**Mild Water Shortage Conditions**	Will begin every May 1 and last until September 30.	**Moderate Water Shortage Conditions**	Stage is initiated when total daily water demand from the Well is greater than 12,000 gallons, or exceeds 84,000 in a 7 consecutive day period.	**Critical Water Shortage Conditions**
	GRAPEVINE		***Refer to City of Grapevine in Dallas County**				
	GRAND PRAIRIE		***No Emergency/Drought Contingency Plan Submitted**				
	HALTOM CITY		***No Emergency/Drought Contingency Plan Submitted**				
	HASLET		***No Emergency/Drought Contingency Plan Submitted**				
	HERITAGE OAKS-TEXAS H2O, INC.-MANSFIELD		***Refer to Forest Acre Gardens Water System in Tarrant County.**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	HILLCREST WATER-TEXAS H2O, INC.-MANSFIELD		***Refer to Forest Acre Gardens Water System in Tarrant County.**				
	HURST		***No Emergency/Drought Contingency Plan Submitted**				
	TRA-JOE POOL RESERVOIR		***Refer to Joe Pool Reservoir in Dallas County**				
	KELLER		***No Emergency/Drought Contingency Plan Submitted**				
	KENNEDALE		***No Emergency/Drought Contingency Plan Submitted**				
	LAKE WORTH	Aug-00	**Mild Water Shortage Conditions**	1. Annually, beginning on May 1 through September 30. 2. When the water supply available to the city is equal to or less than 1.4 MGD. 3. When notification from provider the City of Fort Worth is received to initate Stage 1 of the Plan. 4. The specific capacity of the city's wells is equal to or less than 95% of the well's original specific capacity. 5. The total daily demand equals or exceeds 1.2 MGD for three consecutive days or 1.4 MGD on a single day. 6. Continually falling ground and/or elevated storage levels which do not refill above 95% overnight.	**Moderate Water Shortage Conditions**	1. When the water supply available to the city is equal to or less than 1.2 MGD. 2. When notification from provider the City of Fort Worth is received to initate Stage 2 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 85% of the well's original specific capacity. 4. The total daily demand equals or exceeds 1.4 MGD for three consecutive days or 1.6 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 85% overnight.	**Severe Water Shortage Conditions**
	LAKECREST ESTATES-TEXAS H2O, INC.-MANSFIELD		***Refer to Forest Acre Gardens Water System in Tarrant County.**				
	MANSFIELD		***No Emergency/Drought Contingency Plan Submitted**				
	NEWARK		***No Emergency/Drought Contingency Plan Submitted**				
	NORTH RICHLAND HILLS	Aug-99	**Water Watch**	Daily water demand exceeds 90% of production capacity of the system for 3 consecutive days or short term deficiencies in the distribution system limit supply capability.	**Water Warning**	Daily water demand exceeds 95% of the production capacity of the system for 2 consecutive days.	**Water Emergency**
	PALO DURO SERVICE COMPANY- FORT WORTH	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	1. When overnight recovery rate reaches less than -6-ft. 2. Total daily demand reaches 35% of storage capacity.	**Mandatory Water Use Restrictions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	PANTEGO		***No Emergency/Drought Contingency Plan Submitted**				
	PELICAN BAY	Aug-98	**Mild Conditions**	1. Average daily water consumption reaches 90% of rated production capacity for a three day period. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to	**Moderate Conditions**	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage	**Severe Conditions**
	RICHLAND HILLS		***No Emergency/Drought Contingency Plan Submitted**				
	RIVER OAKS	Jul-00	**Water Awareness**	1. Water storage in TRWD West Fork reservoirs is projected to decline to less than 295,670 acre-feet(50% of capacity) within 2 weeks. 2. Water storage in the TRWD reservoirs has declined to 1,426,752 acre-feet(60% of capacity) 3. Demand for River Oaks or TRWD exceeds 90% of deliverable capacity for 3 consecutive days. 4. Water demand approaches a reduced delivery capacity for all or part of the system due to supply or production limitations including contamination of the system.	**Water Watch**	1. TRWD demands exceed East Texas delivery system capacity for a 24-hour period. 2. Water storage in TRWD reservoirs has declined to 50% of capacity. 3. Demand exceeds 95% of deliverable capacity for 2 consecutive days. 4. Water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	**Water Warning**
	ROLLINS HILL ESTATES WATER CORPORATION	Jul-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	Supply-Based Triggers- Water level reaches 286.50 MSL stabilized hydrographic during pumping cycle. Demand-Based Trigger- Total demand as % of storage capacity reaches 155%.	**Mandatory Water Use Restrictions**
	SAGINAW		***No Emergency/Drought Contingency Plan Submitted**				
	SANSOM PARK VILLAGE		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	SHADED LANE WATER COMPANY-FORT WORTH	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	1. Storage in the 12-ft by 80-ft standpipe has dropped to 70% capacity. 2. Demands exceed 90% of deliverable capacity for three consecutive days. 3. Short-term deficiencies in the distribution system limit supply capability.	**Mandatory Water Use Restrictions**
	SOUTHLAKE		***No Emergency/Drought Contingency Plan Submitted**				
	TARRANT REGIONAL WATER DISTRICT (TRWD)	Jun-99	**Excessive Demand Report**	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands.	**Excessive Demand Alert**	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.	**Water Watch**
	TECON WATER COMPANIES		***Refer to the Tecon Water Companies in Denton County.**				
	TREETOP UTILITIES, INC. - FORT WORTH	Aug-00	**Customer Awareness**	Stage I will begin every year on April 1 and ends September 30.	**Voluntary Water Conservation**	Stage II begins when there is an equipment malfunction or leaks in the disturbution system. Also when drinking water treatment is at 80% capacity.	**Mandatory Water Use Restrictions**
	UNION HILL WATER COMPANY-MANSFIELD	Aug-00	**Customer Awareness**	Stage I will begin every year on April 1 and ends September 30.	**Voluntary Water Conservation**	Supply-Based: Overnight recovery rates reach 12-feet. Demand-Based: Pumps are pumping for 12-hrs per day or a production or distribution limitations.	**Mandatory Water Use Restrictions**
	WATAUGA	Jul-96	**Mild Conditions**	Daily water demand reaches 80% of the production capacity of the system for 3 consecutive days.	**Moderate Conditions**	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days.	**Severe Conditions**
	WESTWORTH VILLAGE		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	WHITE SETTLEMENT	Aug-99	**Mild Conditions**	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).	**Moderate Conditions**	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).	**Severe Conditions**
	WOODVALE WATER INC- FORT WORTH	Sep-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Voluntary Water Conservation**	Drinking water treatment reaches 100% of capacity. Total daily demand reaches 70% of pumping capacity. Pump hours per day reaches 24-hrs.	**Mandatory Water Use Restrictions**
WISE	ALVORD		***No Emergency/Drought Contingency Plan Submitted**				
	AQUASOURCE UTILITY INC.		***Refer to AquaSource Utility Inc. in Cooke, County.**				
	AURORA		***No Emergency/Drought Contingency Plan Submitted**				
	BOYD		***No Emergency/Drought Contingency Plan Submitted**				
	BRADBURY WSC - BOYD	Sep-00	**Voluntary Water Use Restrictions**	Will begin every April 1 with public announcement to customers.	**Mild Water Use Restrictions**	Bradberry WSC well(s) is equal to or less than 20% of the well's original specific capacity; or when the storage tank does not refill overnight, or as normal.	**Moderate Water Use Restrictions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	BRIDGEPORT	Aug-90	**Mild Conditions**	1. Average daily water consumption reaches 90% of production capacity for 3 consecutive days. 2. Weather conditions are to be considered in drought classification determination. Predicted long, cold or dry periods are to be considered in impact analysis.	**Moderate Conditions**	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. Weather conditions indicate mild drought will exist five days or more. 3. The clear well or elevated tanks are taken out of service during mild drought period. 4. Storage capacity is not being maintained during a period of 100% rated production periods for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and cannot be repaired with in 12-hours.	**Severe Conditions**
	BRIGHTON WATER SYSTEMS - DECATUR	Aug-00	**Customer Awareness**	Supply-Based- Overnight recovery rate reaches 15-ft. Demand or Capacity-Based- Total daily demand reaches 50% of pumping capacity or Pumps are pumping 12 hrs per day.	**Mandatory Water Use Restrictions**	Supply-Based- Overnight recovery rate reaches 10-ft. Demand or Capacity-Based- Total daily demand reaches 65% of pumping capacity or Pumps are pumping 16 hrs per day.	**Critical Water Use Restrictions**
	CHICO	Sep-00	**Mild Water Shortage Conditions**	1. When the total dailly water demand equals or exceeds 175,000 gallons for 5 consecutive days or 200,000 gallons for a single day. 2. Continually falling treated water reservoir levels which do not refill above 75% overnight based on an evaluation of minimum treated water storage required to avoid system outage.	**Moderate Water Shortage Conditions**	1. When the total dailly water demand equals or exceeds 200,000 gallons for 5 consecutive days or 220,000 gallons for a single day.	**Severe Water Shortage Conditions**
	NEWARK		***No Emergency/Drought Contingency Plan Submitted**				
	RHOME		***No Emergency/Drought Contingency Plan Submitted**				

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	RUNAWAY BAY	Feb-88	**Mild Drought**	1. Average daily water use is approaching 648,000 gallons per day, present plant rated as 288,000 gallons per day, an additional 432,000 gallons to be added (90% of plant capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year.	**Moderate Drought**	1. Average daily water use is approaching 648,000 gallons per day, present plant rated as 288,000 gallons per day, an additional 432,000 gallons to be added (90% of plant capacity) for 3 consecutive days. 2. When the level of Lake Bridgeport reaches 820.0 MSL.	**Severe Drought**
	TECON WATER COMPANIES		***Refer to the Tecon Water Companies in Denton County.**				
	WALNUT CREEK WSC		***Refer to the Walnut Creek WSC in Parker County**				
	WEST WISE RURAL WSC	Aug-99	**Mild Water Shortage Conditions**	When water pressures leaving the water plant drops to 100 psi or total water demand equals or exceeds 600,000 gallons for 3 consecutive days.	**Moderate Water Shortage Conditions**	When water pressures leaving the water plant drops to 98 psi or total water demand equals or exceeds 650,000 gallons for 3 consecutive days.	**Severe Water Shortage Conditions**
MISC.	ALPHA UTILITY OF CAMP COUNTY-PITTSBURG	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Moderate Water Shortage Conditions**	Supply-Based- Total daily water demands equal or exceed 70% of plants original capacity. Demand-Based- Production or distribution limitations	**Mandatory Water Use Restrictions**
	BACK FORTY UTILITIES	Aug-00	**Voluntary Water Use Restrictions**	Stage I will begin every year on April 1 and ends September 30.	**Mild Water Use Restrictions**	Total daily demand reaches 70% of pumping capacity.	**Remaining stage not present in the received plan.**
	BARRY	Aug-00	**Mild Water Shortage Conditions**	At the request of the Supplier.	**Moderate Water Shortage Conditions**	Notification is received from B & B WSC.	**Severe Water Shortage Conditions**
	JOSEPHINE	Aug-00	**Mild Water Shortage Conditions**	When Lake Lavon water surface elevations lies between 480 and 475 ft MSL- as determined by NTMWD	**Moderate Water Shortage Conditions**	When Lake Lavon water surface elevations lies between 475 and 470 ft MSL- as determined by NTMWD, or when notified by NTMWD to initiate stage or when storage tank levels do not refill above 50% overnight.	**Severe Water Shortage Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	LONGHORN WATER COMPANY	Aug-00	**Voluntary Water Use Restrictions**	Stage will begin April 1 and end September 30.	**Mild Water Use Restrictions**	Storage tank does not fill overnight or as usual.	**Moderate Water Use Restrictions**
	MURCHISON	Aug-00	**Mild Water Shortage Conditions**	1. The specific capacity of the water wells is equal to or less than 75% of the well's original specific capacity. 2. Continually falling treated water storage tank levels that do not refill above 75% overnight.	**Stage Missing From Plan**	Sheet 4 missing.	**Stage Missing From Plan**
	N. WHISPERING MEADOWS WATER - JOSHUA	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Moderate Water Shortage Conditions**	Stage will begin when overnight recovery rate reaches 8-ft, or due to production or distribution limitations.	**Mandatory Water Use Restrictions**
	OAK BEND HOMEOWNERS WATER SUPPLY	Sep-00	**Voluntary Water Use Restrictions**	Stage will begin April 1 and end September 30.	**Mild Water Use Restrictions**	Usage is greater than water level in storage.	**Moderate Water Use Restrictions**
	PIONEER VALLEY WATER COMPANY-AUSTIN	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Moderate Water Shortage Conditions**	Stage will begin when ground storage in a 24 hour period exceeds 80% of our total ground storage capacity; or when total daily demand reaches 80% of the pumping capacity.	**Mandatory Water Use Restrictions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	ECHO VALLEY WSC	Aug-00	**Mild Conditions**	1. Water consumption has reached 80% of daily max supply for 3 days. 2. Water supply is reduced to a level that is only 20% greater than the average consumption for the previous month. 3. There is an extended period (at least 8 weeks) of low rainfall	**Moderate Conditions**	1. Water consumption has reached 90% of the available amount for 3 consecutive days. 2. The water level in any of the water storage tanks cannot be replenished for 3 consecutive days	**Severe Conditions**
	HOWARD & SONS WATER COMPANY	Aug-00	**Voluntary Water Use Restrictions**	Stage will begin April 1 and end September 30.	**Mild Water Use Restrictions**	Pump runs for 5 hours in a 24 hour period.	**Moderate Water Use Restrictions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	M & L WSC	Aug-00	**Mild Conditions**	1. Water consumption has reached 80% of daily max supply for 3 days. 2. Water supply is reduced to a level that is only 20% greater than the average consumption for the previous month. 3. There is an extended period (at least 8 weeks) of low rainfall	**Moderate Conditions**	1. Water consumption has reached 90% of the available amount for 3 consecutive days. 2. The water level in any of the water storage tanks cannot be replenished for 3 consecutive days	**Severe Conditions**
	S-ESTATES WSC	Aug-00	**Mild Conditions**	1. Water consumption has reached 80% of daily max supply for 3 days. 2. Water supply is reduced to a level that is only 20% greater than the average consumption for the previous month. 3. There is an extended period (at least 8 weeks) of low rainfall	**Moderate Conditions**	1. Water consumption has reached 90% of the available amount for 3 consecutive days. 2. The water level in any of the water storage tanks cannot be replenished for 3 consecutive days	**Severe Conditions**

TABLE O-2 - REGION C: EMERGENCY/DROUGHT CONT

COUNTY	CITY	DATE	DROUGHT				
			1		2		
			CONDITION	TRIGGER CONDITIONS	CONDITION	TRIGGER CONDITIONS	CONDITION
	TEXAS WATER SYSTEMS, INC. - TYLER	Aug-00	**Customer Awareness**	Stage will begin April 1 and end September 30.	**Moderate Water Shortage Conditions**	Supply-Based- Well level reaches 30-ft above pump. Demand-Based- Total daily demand reaches 80% of total pumping capacity.	**Mandatory Water Use Restrictions**
	WHITE SHED WSC	Aug-00	**Mild Condition**	Water consumption has reached 85% of daily maximum supply for 3 consecutive days.	**Moderate Conditions**	Water consumption has reached 90% of the amount available for 3 consecutive days.	**Severe Conditions**

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STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Well down 15-ft greater than normal pumping level. Total daily demand reaches 90% of pumping capacity. Production or system limitation arise.	**Critical Water Use Restrictions**	Supply contamination occurs. Well down 20-ft greater than normal pumping level. Total daily demand reaches 100% of pumping capacity. Production or system limitation arise, or there is a system outage.		
The warning light on the 150,000 gallon ground storage tank remains activated for ten consecutive days after declaration of a moderate drought.				
Lake Lavon water surface elevation lies between 470 & 453 feet above MSL to be determined by NTMWD or the City of Farmersville.	**Critical Water Shortage Conditions**	When STAGE 3 fails to work after a reasonable period of time.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.
When a Catastrophic equipment failure occurs.				
When continually falling treated water reservoir levels which do not refill above 85% overnight or on such occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Critical Water Shortage Conditions**	When continually falling treated water reservoir levels which do not refill above 75% overnight or on such occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
When notification is received from NTMWD requesting initiation of Stage 3; or when the maximum daily demand per meter exceeds 600 gpd for six consecutive days, or when due to system repairs, excessive leakage or equipment malfunction, or when ground storage tanks remain only 50% full for six consecutive days.	**Critical Water Shortage Conditions**	When notification is received from NTMWD requesting initiation of Stage 4; or when the maximum daily demand per meter exceeds 700 gpd for five consecutive days, or when due to system repairs, excessive leakage or equipment malfunction, or when ground storage tanks remain only 40% full for five consecutive days.	**Emergency Water Shortage Conditions - Stage 6: Water Allocation**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. Stage 6 - when notification is received from NTMWD requesting initiation of Stage 6; or when the maximum daily demand per meter exceeds 1200 gpd for two consecutive days, or when due to system repairs, excessive leakage, equipment malfunction, power outages, natural disasters, contamination of water, or when the system demand exceeds the system supply for 2 consecutive days and ground storage tanks remain only 30% full for 2 consecutive days.
Operations may be initiated by the NTMWD.	**Critical Water Shortage Conditions**	Operations may be initiated by the NTMWD.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
The City's provider, NTMWD requests initiation of STAGE 3; or total daily water demand equals the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 50% overnight.	**Critical Water Shortage Conditions**	The City's provider, NTMWD requests initiation of STAGE 4; or total daily water demand exceeds the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 20% overnight.	**Emergency Water Shortage/Water Rationing Conditions**	The water system experiences catastrophically decreasing reservoir levels or delivery capacities' major water line breaks or pump or system failures occur' natural or man-made contamination of the water supply occurs or is suspected; or other conditions arise that constitute an unprecedented loss of capability to provide water service adequate for the public health, safety, or welfare.
When metered water usage reaches approx. 2,400 gpd and pumps run about two hours each day.	**Critical Water Use Restrictions**	When metered water usage reaches approx. 2,400 gpd and pumps run about three hours each day.		
1. Supply Based: Occurs when MUSTANG WATER SUPPLY CORP's drought Stage 3 begins . 2. Demand or Capacity Based: Total daily demand as % of pumping capacity is 95%.	**Critical Water Use Restrictions**	1. Suppy Based: Occurs when MUSTANG WATER SUPPLY CORP's drought Stage 4 begins. 2. Demand or Capacity Based: Production or distribution limitations or system outages occur.		
Stage will begin upon notification from wholesaler, NTMWD, total daily demand equals or exceeds 95% of the system's safe operating capacity for 3 consecutive days, or equals or exceeds 100% of the system's capacity on a single day.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
When the NTMWD Plan Severe trigger is achieved.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		
Notification by the City of Farmersville to implement stage 3.	**Critical Water Shortage Conditions**	Notification by the City of Farmersville to implement stage 4.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.
WSE of Lake Lavon lies between 470-453 feet MSL; or the water demand equals or exceeds 99% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 60% of the normal operating elevation within 45 consecutive days.				

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STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Average daily water consumption reaches 100% of the system's total pumping capacity for a period of 3 days; or average daily water consumption exceeds 100% of the production capacity and/or the contractual amount of the water provider; or water levels in ground and/or elevated storage tanks are less than 25% of full volume; or water system fails due to acts of God or man.				
System water production exceeds 520,000 gpd for 2 consecutive days or 440,000 gpd for 7 consecutive days.	**Emergency Condition**	Major power outage. Malfunction of major system component.		
The City's inability to recover water storage approximately 90% in all storage facilities within a 48-hour period.	**Water Crisis**	1. Natural Disasters 2. Water system failures 3. Supply failure from the NTMWD or initiation of any stage in the NTMWD Drought Contingency Plan.		
Continually falling treated water reservoir levels do not refill to a 85% overnight.	**Critical Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 75% overnight.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.

TINGENCY PLANS BY CITY

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STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Supply-Based- Stage will be initiated upon notice from wholesaler. Demand Based - Initiated when total daily demand equals or exceeds 90% of the daily well production capacity for 3 consecutive days or 100% on a single day. Permit Based - Systems that are within the jurisdiction of a special district, the regulatory entity will formally notify to initiate stage.	**Critical Water Use Restrictions**	Supply-Based- Stage will be initiated upon notice from wholesaler. Demand Based - Initiated when total daily demand equals or exceeds 100% of the daily well production capacity for 3 consecutive days or the entity will recognize that an emergency water shortage condition exists when contamination, natural or man-made, of the water source occurs or a major water line breaks, pump or system failures occur, or when prolonged maintenance is required for storage facilities, which cause unprecedented loss of capability to provide water service. Permit Based - Systems that are within the jurisdiction of a special district, the regulatory entity will formally notify to initiate stage.		
Total daily water demand equals 100% or 5.169 mgd for three consecutive days.				
1. Imminent or actual failure of a major component of the system has occurred which will cause immediate health or safety hazard. 2. Above ground storage cannot be replenished during off-peak periods. 3. Wells are producing at 2 times average daily consumption for a period of 20 consecutive days. 4. Water demand exceeds the system's capacity on a regular basis, presenting the imminent danger of a major system failure.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Total daily water demand equals or exceeds 1.7 mg for 5 consecutive days or 1.8 mg on a single day.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		
When total daily demand exceeds 95% of the daily pumping capacity for 3 consecutive days.	**Critical Water Use Restrictions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		
Supply-Based - Overnight recovery rate reaches 18-ft and no rainfall for 45 consecutive days. Demand-Based - Pumps hours per day equal 20 hours.	**Critical Water Use Restrictions**	Supply-Based - Overnight recovery rate reaches 20-ft Demand-Based - Pumps hours per day equal 24 hours, or if either of the pumps goes out.		
1. Large, 500 gpm well exhibits non-operation or less than full capacity pumping. 2. Main distribution line failure.	**Critical Water Shortage Conditions**	1. 2 of the 6 wells are in failure. 2. Storage is below 186,000 gallons.	**Emergency Water Shortage Conditions - Stage 6: Water Allocation**	1. Major water line breaks, or pump system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water source. - Water is to be allocated according to the decision of the Board.
Total raw water supply in connected lakes drops below 35% of total conservation storage, demand exceeds 95% of deliverable capacity for five consecutive day.	**Water Crisis**	Total raw water supply in connected lakes drops below 20% of total conservation storage, demand exceeds 100% of deliverable capacity for two consecutive day.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Stage has 2 levels, and is triggered by the inability to recover 90% in all storage facilities within 24 hours.	**Water Crisis**	City will enact stage 4 upon notification from DWU of critical situation; or major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service.		
Daily water demand reaches or exceeds 100% of the production capacity of the system for 5 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard.				
Supply-Based - When the wholesale supplier's implement stage 3. The facility has two systems: Danieldale and Grand Prairie. The Danieldale system will follow the guidelines of the City of Dallas and the Grand Prairie system will follow the City of Grand Prairie guidelines.	**Critical Water Use Restrictions**	Supply-Based - When the wholesale supplier's implement stage 4. The facility has two systems: Danieldale and Grand Prairie. The Danieldale system will follow the guidelines of the City of Dallas and the Grand Prairie system will follow the City of Grand Prairie guidelines.		
1. Water reservoir levels drop below 45% of capacity. 2. Water demand exceeds 95% of system capacity for 2 consecutive days. 3. A short-term emergency situation occurs.	**Water Emergency**	1. Water reservoir levels drop below 30% of capacity. 2. Water demand exceeds 98% of system capacity for 1 day. 3. A short-term emergency situation occurs.		
Notification by the DCPCMUD of water shortage possibility with lake levels approaching 520 feet MSL.	**Water Shortage Emergency**	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 515 feet MSL.		

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STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Dallas supply cut by 30% on a continuous basis during high demand months. 2. Combined ground storage falls below 25% of total capacity.				
The City's provider, NTMWD requests initiation of STAGE 3; or total daily water demand equals the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 50% overnight.	**Critical Water Shortage Conditions**	The City's provider, NTMWD requests initiation of STAGE 4; or total daily water demand exceeds the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 20% overnight.	**Emergency Water Shortage/Water Rationing Conditions**	The water system experiences catastrophically decreasing reservoir levels or delivery capacities' major water line breaks or pump or system failures occur' natural or man-made contamination of the water supply occurs or is suspected; or other conditions arise that constitute an unprecedented loss of capability to provide water service adequate for the public health, safety, or welfare.
All static water levels are below 640.0 and falling. The City has experienced failure to achieve water demand reduction objectives through voluntary curtailment. The previous days demand exceeded 80% of peak. The storage tanks fill no more than 65% overnight.	**Critical - Emergency Price Rationing (Mandatory)**	Static levels of wells are at or below 680.0 feet below the natural ground surface; failure to achieve water demand reduction objectives through STAGE 3 restrictions. Storage tanks filling up to less than 50% overnight; or emergency condition.	**Termination of Emergency Condition/Water Shortage (Discretionary)**	Emergency condition may be terminated at such time the storage reservoirs are able to fill 95% overnight for three consecutive nights, with favorable weather conditions prevailing.

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T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Surface water demand reaches (7 day period) (100% of pumping capacity- City of Grapevine/TRA WTPS)(Design 20.86 mgd), Peak 21.86 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system exceeds the reduced production, including a complete failure of the plant to produce any water.	**Emergency Conditions**	1. Catastrophic failure of a critical component of the treatment, delivery or distribution system that would limit water available to meet demand.		
Notification by the DCPCMUD of water shortage possibility with lake levels approaching 520 feet MSL.	**Water Shortage Emergency**	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 515 feet MSL.		
1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 3. 2. Short-term deficiencies in the City's distribution system limit supply capabilities. 3. Inability to maintain or replenish volumes of storage to provide for public health and safety.	**Water Crisis**	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 4. 2. Short-term deficiencies in the City's distribution system limit supply capabilities. 3. Inability to maintain or replenish volumes of storage to provide for public health and safety.	**Emergency Water Shortage Condition**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.
WSE declines to below 511.0 feet.	**III**	WSE declines to below 501.0 feet.	**IV**	WSE declines to below 488.0 feet.

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STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Supply-Based- Well levels reach 290-ft MSL Demand-Based- Total daily demand reaches 90% of total pumping capacity.	**Critical Water Use Restrictions**	Supply-Based- Well levels reach 285-ft MSL Demand-Based- Total daily demand reaches 95% of total pumping capacity.		
Total daily water demand equals or exceeds 42 million gallons for 3 consecutive days or 44 million gallons on a single day; or the available water supply to the City of Mesquite is equal to or less than 44 mgd; or continually falling treated water ground reservoir levels do not refill above 40% overnight for 3 consecutive days; or continually falling treated water overhead storage levels do not refill above 40% overnight for 3 consecutive days.	**Critical Water Shortage Conditions**	*Not listed in the report(page missing)	**Emergency Water Shortage Conditions**	*Not listed in the report(page missing)
1. Failure of a major component of the system or an event which reduces the minimum residual pressure below 20 psi for a period of 2 days or longer. 2. Water consumption has reached 95% of daily maximum supply for 3 consecutive days. 3. Water consumption of 100% or more of the maximum available and the water level in the water storage standpipe drops in one 24 hour period. 4. Other unforeseen events which could cause imminent health or safety risks to the public.				
Supply-Based- Stage will be initiated when overnight recovery rate reaches 5-ft.	**Critical Water Use Restrictions**	Supply-Based- Stage will be initiated when overnight recovery rate reaches 6-ft.		

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STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demands is exceeding the capacity of 5.2 mgd for three consecutive days. 3. All available water supply, such as the water wells, level is so low that the pumps cannot pump the daily water demand. 4. All water is being pumped from System's storage reservoirs and all replenishment of water reservoirs has stopped.				
1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 3. 2. Total daily water demand equals the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 50% overnight.	**Critical Water Shortage Conditions**	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 4. 2. Total daily water demand exceeds the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 20% overnight.	**Emergency Water Shortage Condition**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.
Daily water demand reaches or exceeds 100% of the production capacity of the system for 5 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Average daily water consumption reaches 110% of rated production capacity. 2. Average daily water consumption will not allow storage levels to be maintained in District clearwells and ground storage tanks. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in Moderate condition stage occur at the same time for 24-hour period. 5. Water system is contaminated. Severe condition is reached immediately upon detection. 6. Water system fails from acts of God or man. Severe condition is reached immediately upon detection.				
1. Notification from UTRWD to begin Stage 3 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 80% of the wells original capacity. 3. When the total daily demands equal or exceed .425 mgd for 3 consecutive days or .450 mgd for a single day.	**Critical Water Shortage Conditions**	1. Notification from UTRWD to begin Stage 4 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 75% of the wells original capacity. 3. When the total daily demands equal or exceed .450 mgd for 3 consecutive days or .475 mgd for a single day.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 45% of the total conservation storage. Type B- Water demand has reached or exceeded 95% of delivery capacity for 2 consecutive days. Type C- Water demand exceeds a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	**Water Emergency**	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 30% of the total conservation storage. Type B- Water demand has reached or exceeded 98% of delivery capacity for 1 consecutive days. Type C- Water demand seriously exceeds a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.		
1. Daily demand exceeds 240,000 gpd for 3 consecutive days. 2. Failure of two wells during June, July, or August or simultaneous to a mild or moderate condition occurrence. 3. Imminent failure of system component where immediate health or safety hazards exist.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Supply-Based- System demand exceeds storage capacity for 2 consecutive days. Demand-Based- 1. Total daily demand reaches 100% of pumping capacity. 2. Production or distribution limitations.	**Critical Water Use Restrictions**	Supply-Based- 1. Supply contamination 2. Average daily water consumption reaches 110% of rated production capacity. Demand-Based- 1. Drinking water treatment reaches 110% of capacity. 2. Total daily demand reaches 110% of pumping capacity. 3. System outage.		
1. Average daily water consumption will not allow the storage levels in the ground storage tanks or elevated storage tanks to be maintained. 2. System demand exceeds the high service pumping capacity. 3. Water system is contaminated. 4. Water system fails from acts of God or man. 5. One pump station is taken out of service during a period of heavy demand.				
Production or distribution limitations; or pressure drops	**Critical Water Use Restrictions**	Production or distribution limitations, or pressure drops, or system outages		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Average daily water consumption reaches 110% of production capacity. 2. Average daily water consumption will not allow storage levels to be maintained. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in Moderate condition stage occur at the same time for 24-hour period. 5. Water system is contaminated either accidentally or intentionally. Severe condition is reached immediately upon detection. 6. Water system fails from acts of God or man. Severe condition is reached immediately upon detection.				
Peak Daily Water use is approaching 90% of potential daily production rate (existing volume 706,320 gpd), for 3 consecutive days.	**Severe Rationing Conditions**	The imminent or actual failure of a major component of the system which would cause an immediate health of safety hazard. Water demand is exceeding the capacity of the plant- 784,800 gpd for 3 consecutive days.		
Daily usage exceeds 21,000 gpd.	**Critical Water Use Restrictions**	Daily usage exceeds 23,000 gpd.		
Well production exceeds 210,000 gallons per week and pumps pump for 20 hours a day.	**Critical Water Use Restrictions**	Well production exceeds 231,000 gallons per week and pumps pump for 22 hours a day.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demands is exceeding the capacity of the system - 1,100,00 gallons per day for three consecutive days.				
Well level reaches 6-ft MSL. Production or distribution limitations occur.	**Critical Water Use Restrictions**	Well level reaches 2-ft MSL. Production or distribution limitations occur.		
When all conditions of stage 2 are exceeded plus: 1. When the specific capacity of the TWCI wells is equal to or less than 70% of the well's original specific capacity. 2. When the total daily demand equals or exceeds the safe operating capacity for 3 consecutive days. 3. Continually falling treated water reservoir levels which do not refill above 50% overnight.	**Critical Water Shortage Conditions**	Same as stage 3.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water. 2. Natural or man-made contamination of water sources.

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. DWU declares STAGE 3 or the average daily water consumption reaches 90% of delivery capacity following STAGE 2. 2. Average daily consumption will not enable storage levels to be maintained 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in moderate drought conditions at the same time with a 24 hour period. 5. Water system is contaminated either accidentally or intentionally. 6. Water system fails from acts of God or man.	**Crisis Conditions**	1. DWU declares STAGE 4 water crisis. 2. Local demand exceeds 90% of deliverable capacity for three consecutive days following STAGE 3 Water Emergency.		
Daily water demand reaches 95% of the production capacity of the system for 5 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 3 restrictions.	**Water Emergency**	Daily water demand reaches 100% of the production capacity of the system for 2 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 4 restrictions.		
Supply-Based: Reservoir elevation reaches 8-ft MSL. Demand-Based: Total daily demand 115% of the total pumping capacity for 3 consecutive days.	**Critical Water Use Restrictions**	Supply-Based: Reservoir elevation reaches 6-ft MSL. Demand-Based: Total daily demand 120% of the total pumping capacity for 3 consecutive days.		
WSE declines to below 414.0 feet.	**III**	WSE declines to below 408.0 feet.	**IV**	WSE declines to below 399.0 feet.
Average daily well pump run time is 22 hours for three consecutive days.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
The water supply available from Lake Bardwell is equal to or less than 16,111 acre-feet, the lake elevation is at 410 -412 feet MSL the normal lake storage is at 35% or the daily potable water supply system demand is at 95+% capacity.	**Crisis Conditions/Water Crisis**	The water supply available from Lake Bardwell is equal to or less than 10,080 acre-feet, the lake elevation is at 406 -409 feet MSL the normal lake storage is at 20% or the daily potable water supply system demand is at 98+% capacity.		
When, pursuant to requirements specified in the Community Water Company wholesale water purchase contract with the City of Ennis, notification is received requesting initiation of Emergency conditions.	**Critical Water Use Restrictions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. When, pursuant to requirements specified in the Community Water Company wholesale water purchase contract with the City of Ennis, notification is received requesting initiation of Crises Conditions.		
Total daily demand equals or exceeds 425,000 gallons for 5 consecutive days or 450,000 gallons on a single day.	**Critical Water Shortage Conditions**	Total daily demand equals or exceeds 450,000 gallons for 5 consecutive days or 475,000 gallons on a single day.	**Emergency Water Shortage Conditions- Stage 6: Water Allocation**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. - Total daily demand equals 475,000 gallons for 5 consecutive days or 500,000 gallons for 2 days.

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Joe Pool Lake water elevations are between 482-496 feet MSL; or water demand has exceeded the treatment plant's max. daily demand on a regular basis and presents imminent danger of a major system failure; or water levels are low enough in the storage reservoirs to hinder fire protection, the imminent or actual failure of a major component of the system has occurred which will cause an immediate health or safety hazard, and due to natural or other disaster, the public water supply is not dependable and may not be suitable for human consumption.				
1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demands is exceeding the capacity of 5.2 mgd for three consecutive days. 3. All available water supply, such as the water wells, level is so low that the pumps cannot pump the daily water demand. 4. All water is being pumped from System's storage reservoirs and all replenishment of water reservoirs has stopped.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Reservoirs levels do not refill above 80% overnight.	**Critical Water Shortage Conditions**	Reservoirs levels do not refill above 75% overnight.	**Emergency Water Shortage Conditions- Stage 6: Water Allocation**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. - Reservoirs levels do not refill above 70% overnight.
Total daily demand equals or exceeds 275,000 gallons for 5 consecutive days or 300,000 gallons on a single day.	**Critical Water Shortage Conditions**	Total daily demand equals or exceeds 300,000 gallons for 5 consecutive days or 325,000 gallons on a single day.	**Emergency Water Shortage Conditions- Stage 6: Water Allocation**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. - Total daily demand equals 325,000 gallons for 5 consecutive days or 350,000 gallons for 2 days.
Overnight recovery rate reaches 28-ft or production or distribution limitations.	**Critical Water Use Restrictions**	Overnight recovery rate reaches 15-ft, supplly contamintation, or system outage.		
Lake elevation drops to 524 feet.	**Stage 3**	Lake elevation drops to 520 feet.	**Stage 4**	Lake elevation drops to 517.5 feet.
Continually falling treated water reservoir levels which do not refill above 85% overnight.	**Critical Water Shortage Conditions**	Continually falling treated water reservoir levels which do not refill above 75% overnight.	**Emergency Water Shortage Conditions - Stage 6: Water Allocation**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. - Stage 6 will be implemented when continually falling treated water reservoirs levels do not refill above 50% overnight.

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Continually falling treated water reservoir levels do not refill to a 85% overnight.	**Critical Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 75% overnight.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.
Total daily water demands equal or exceed 100% of the safe operating capacity of 100,000 gallons per day for 30 consecutive days.	**Emergency Water Shortage Conditions**	Major water line breaks, or pump or system failures occur, which causes unprecedented loss of capability to provide water service; or natural or man-made contamination of the water supply source.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. The local use reservoir is at or below 30% of its total active water supply capacity, or if the remaining capacity is less than one year's estimated demand. 2. The total storage in all system reservoirs is at or below 30% of the total active water supply capacity.				
Demand-Based - Total daily demand is 60% of pumping capacity. Total daily demand is 170% of storage capacity.	**Critical Water Use Restrictions**	**Demand-Based -** Total daily demand is 70% of pumping capacity. Total daily demand is 200% of storage capacity.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Supply-Based - Stage will be implemented when any pump/well malfunctions which reduce or impair the maximum pumping capacity of any well; or any mainline break which impairs the storage or pumping capacity. Demand-Based - Pump hours reach or exceed 22-23 hrs per day; or production or distribution limitations.	**Critical Water Use Restrictions**	Supply-Based - Stage will be implemented when or any pump/well malfunctions which reduce or impair the maximum pumping capacity of any well; or any mainline break which impairs the storage or pumping capacity. Demand-Based - Pump hours reach or exceed 23-24 hrs per day, production or distribution limitations, or system outage.		
*No triggering conditions supplied				
Any pump/well malfunctions which reduce or impair the max. pumping capacity of any well; or any mainline break which impairs the storage or pumping capacity of the plant. Pumping exceeds 21-22 hours per day or production or distribution limitations arise.	**Critical Water Use Restrictions**	Any pump/well malfunctions which reduce or impair the max. pumping capacity of any well; or any mainline break which impairs the storage or pumping capacity of the plant. Pumping exceeds 23-24 hours per day, production or distribution limitations arise, or a system outage occurs.		
1. Failure of elevated storage tank or other major system component which reduce the availability of water to less than 50% of the average daily usage or causes health or safety hazard. 2. Water level in Lake Wortham drops below 50% of full capacity. 3. Water supply from City of Mexia is out of service.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
The Mayor, or his/her designee, determines the emergency by the following: 1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.				
Denison WTP has treated and distributed 12 mgd for 3 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. Force majeure		
When continually falling treated water reservoir levels which don not refill above 85% overnight or on such occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Critical Water Shortage Conditions**	When continually falling treated water reservoir levels which don not refill above 75% overnight or on such occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Emergency Water Shortage Conditions**	Manager, or designee, determines water supply emergency exists based on following: 1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. one or more water wells are out of service. 4. One or more water wells are experiencing dangerouly declining pumping levels.

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Upon notice from the utility's wholesale supplier to begin stage 3; or when distribution limitations of its supplier reaches 90% of its capacity.	**Critical Water Use Restrictions**	Upon notice from the utility's wholesale supplier to begin stage 4; or when distribution limitations of its supplier reaches 95% of its capacity.		
Due to diminishing water levels in the Trinity Aquifer, the combined well production declines to 50% of the rated well capacities, the water demand exceeds the system capacity, and/or imminent or actual failure of a major system component which might cause an immediate health or safety hazard.				
City of Denison will give notification to implement stage 3 of the drought plan.	**Critical Water Shortage Conditions**	City of Denison will give notification to implement stage 4 of the drought plan.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural of man-made contamination of the water supply source.
City of Sherman will notify Pink Hill Water Supply requesting initiation of Stage 3; or the specific capacity of the PHWS well is less than or equal to 90% of its original capacity; or total daily demand equals or exceeds the PHWS safe operating capacity; or continually falling treated water reservoir levels do not refill above 90% overnight.	**Critical Water Shortage Conditions**	City of Sherman will notify Pink Hill Water Supply requesting initiation of Stage 4; or the specific capacity of the PHWS well is less than or equal to 90% of its original capacity; or total daily demand equals or exceeds the PHWS safe operating capacity; or continually falling treated water reservoir levels do not refill above 80% overnight.		
Supply-Based: Over night recovery rate reaches 50%. Demand-Based: Pump hours per day are at 90%.	**Critical Water Use Restrictions**	Supply-Based: Over night recovery rate reaches 70%. Demand-Based: Pump hours per day are at 95%.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Continually falling treated water reservoir levels do not refill to a 85% overnight.	**Critical Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 75% overnight.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.
Continually falling treated water reservoir levels do not refill to a 85% overnight; or on such occasion as a water well may be temp. out of service.	**Critical Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill to a 75% overnight; or on such occasion as a water well may be temp. out of service.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. One or more wells out of service. 4. One or more wells experiencing dangerously declining pumping levels.
1. Daily water demand exceeds 265,000 gpd for 3 consecutive days (75% of rated capacity of all wells) 2. Imminent failure of system component where immediate health or safety hazards exist. 3. Water pressures in distribution system continue to drop after implementing management steps.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Stage is initiated when continually falling treated water reservoir levels which do not refill above 85% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Critical Water Shortage Conditions**	Stage is initiated when continually falling treated water reservoir levels which do not refill above 75% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. 3. One or more water wells are out of services. 4. One or more water wells are experiencing dangerously declining pumping levels.
Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 65% overnight.	**Critical Water Shortage Conditions**	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 50% overnight.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.
Gallons pumped per month exceed 24,500,000 gallons.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		
Total daily demand equals or exceeds 95% of the storage capacity, and the pump hours per day equals or exceeds 20.	**Emergency Conditions**	Production or distribution limitations, system outage, or water main breaks.		
Total daily demand equals or exceeds 95% of the storage capacity, and the pump hours per day equals or exceeds 20.	**Emergency Conditions**	Production or distribution limitations, system outage, or water main breaks.		
Water level in storage tanks becomes less than 20% of capacity.	**Critical Water Use Restrictions**	Stage III restriction fail to reduce demand sufficiently; or pump hours per day is equal to 24-hrs.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Daily water demand consumption exceeds 90% of WTP capacity; or storage tank levels do not refill above 75% overnight.	**Critical Water Shortage Conditions**	Daily water demand consumption exceeds 95% of WTP capacity; or storage tank levels do not refill above 65% overnight.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.
Total daily demand reaches 70% of total pumping capacity.	**Critical Water Use Restrictions**	Total daily demand reaches 90% of total pumping capacity.		
Supply-Based Triggers: Well level reaches 169-ft MSL	**Critical Water Use Restrictions**	Supply-Based Triggers: Well level reaches 144-ft MSL		
The water supply available to the City of Trinidad is equal to or less than 75 acre-feet.	**Critical Water Shortage Conditions**	The water supply available to the City of Trinidad is equal to or less than 50 acre-feet.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.
1. The imminent of actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding 100% of system capacity for three consecutive days. 3. The full allotment of raw water is being pumped from the system's supply source.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the firm system capacity of 3.0 mgd for three consecutive days. 3. Available water supply, Cedar Creek Lake, level is so low that the pumps cannot pump the daily water demand. 4. All water is being pumped from System's storage reservoirs and all replenishment of water reservoirs has stopped.				
Total daily demand equals or exceeds 95% of the daily well production capacity for 3 consecutive day or 100% on a single day; or exceeds 75% daily storage capacity for 3 days or 90% for one day.	**Critical Water Use Restrictions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.		
When the reservoir level reaches the 30% level.	**Critical Water Shortage Conditions**	When the reservoir level reaches the 15% level.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Treatment plant production exceeds 1.1 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.4 mgd during October through May or 0.6 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1004 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1000 acre-feet (after first fill of Lost Creek Reservoir).				
Supply-Based - 1. Well levels reach 5-ft MSL 2. Well production below 31 gpm	**Critical Water Use Restrictions**	Supply-Based - Supply contamination Demand-Based - 1. Production or distribution limitations 2. System outage		
Supply-Based - Storage Tanks are 25% capacity or less at 8 am for 3 consecutive days. Demand-Based - Pumps hours per day approach 22-hrs for three consecutive days.	**Critical Water Use Restrictions**	Supply-Based - Storage Tanks are 20% capacity or less at 8 am for 3 consecutive days. Demand-Based - Pumps hours per day approach 24-hrs for three consecutive days.		
Supply-Based - 75% overnight tank recovery Demand-Based - Production or distribution limitations.	**Critical Water Use Restrictions**	Supply-Based - 50% overnight tank recovery Demand-Based - System outage		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Must be implented when an emergency water shortage condition exists for a major water line break; or pump or major component or a system failure occurs, which caused unprecedented loss of capability to provide water service; or there is a natural or man-made contamination of water source.				
1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the firm system capacity of 0.756 mgd for 3 consecutive days. 3. Notification by NTMWD that supply is being reduced. 4. All water is being pumped from system's storage reservoirs and all replenishment of water reservoirs has ceased.				
1. Daily water demand exceeds 1.0 mgd for three consecutive days. 2. Distribution pressure remains below 30 psi for more than six consecutive hours. 3. Storage remains below 50% of total storage capacity (625,000 gallons) for more than 2 consecutive days. 4. Failure of essential system component is imminent potentially causing immediate health or safety hazard.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the firm system capacity of 0.5 mgd for 3 consecutive days. 3. Notification by the City of Crandall and NTMWD that supply is being reduced. 4. All water is being pumped from system's storage reservoirs and all replenishment of water reservoirs has ceased.				
Daily water demand exceeds 2,500,000 gpd for 3 consecutive days; or failure of raw water transmission line from NTMWD for more than 12 consecutive hours during June, July, or August; or water levels in Lake Lavon fall between 468-453 feet MSL; or imminent or actual failure of system component where immediate health or safety hazards exist.	**Critical Emergency Conditions**	Natural disasters, massive power outages, massive equipment or facility failures, or public water supply contamination		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
When provider City of Kaufman requests initiation of Stage 3; or when the total daily demand equals or exceeds 100% of the supply capacity per day for 3 consecutive days.	**Critical Emergency Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. 3. Massive power outages, massive equipment failures, public water supply contamination. 4. Notification from the provider, City of Kaufman, to initiate stage 4 of the Plan.		
1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the firm system capacity of 0.262 mgd for 3 consecutive days. 3. Notification by the City of Terrel or NTMWD that supply is being reduced. 4. All water is being pumped from system's storage reservoirs and all replenishment of water reservoirs has ceased.				
1. Daily water demand exceeds 2.5 mgd for 3 consecutive days. 2. Failure of raw water transmission line from NTMWD for more than 12 consecutive hours during June, July, or August. 3. Water levels in Lake Lavon fall between 468 to 453 feet MSL. 4. Imminent or actual failure of system component where immediate health or safety hazards exist.	**Critical Emergency Conditions**	Natural disasters, massive power outages, massive equipment or facility failures, or public water supply contamination		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Notification from the City of Forney to initiate stage 3, or when the total daily demand equals or exceeds 100% of the supply capacity per day for 3 consecutive days.				
When total daily water demand equals or exceeds ___ percent of the safe operating capacity of ___ million gallons per day for ___ consecutive days or ____percent on a single day.	**Critical Water Shortage Conditions**	When total daily demand equals or exceeds ____ million gallons for ____ consecutive days of ___ million gallons on a single day (e.g., based on the "safe" operating capacity of water supply facilities).	**Emergency Water Shortage Conditions**	Continually falling treated water reservoir levels do not refill above ___ percent overnight (e.g., based on an evaluation of minimum treated water storage required to avoid system outage).
Supply-Based - Overnight recovery rate reaches 2-ft. Demand-Based - Pumps hours per day is 17.	**Critical Water Use Restrictions**	Supply-Based - Supply contamination. Demand-Based - Pumps hours per day is 19.		
Stage will begin upon notification from the City of Corsicana.	**Critical Water Use Restrictions**	Stage will begin upon notification from the City of Corsicana, major water line breaks, pump or system failures occur, which cause unprecedented loss of capability to provide water service; or natural or man-made contamination of the water supply source(s).		
Stage will begin upon notification from the City of Corsicana.	**Emergency Water Shortage Conditions**	Stage will begin upon notification from the City of Corsicana; or 1. 1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
WSE declines to below 419.0 feet.	**III**	WSE declines to below 414.5 feet.	**IV**	WSE declines to below 388.0 feet.
Supply-Based - Wholesale will notify to implement stage 3 of drought contingency plan(City of Corsicana). Demand-Based - Production or distribution limitations.	**Critical Water Use Restrictions**	Supply-Based - Wholesale will notify to implement stage 4 of drought contingency plan(City of Corsicana). Demand-Based - Production or distribution limitations.		
Stage will begin upon notification from the City of Corsicana.	**Critical Water Shortage Conditions**	Stage will begin upon notification from the City of Corsicana.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.
Supply-Based- Water consumption has reached 90% of daily max supply for 3 consecutive days. **Demand-Based-** The water level in any of the water storage tanks cannot be replenished for 3 consecutive days.	**Critical Water Use Restrictions**	**Supply-Based-** Water consumption has reached 95% of daily max supply for 3 consecutive days. **Demand-Based-** Water consumption of 100% of the max available and the water storage levels in the system drop during a 24-hour period.		
	Critical Water Use Restrictions	1. Major water lline breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service; or 2. Natural or man-made contamination of the water supply source(s).		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Supply-Based- Overnight recovery rate reaches 7-feet. **Demand-Based-** Production or distribution limitations occur.	**Critical Water Use Restrictions**	**Supply-Based-** Overnight recovery rate reaches 5-feet; or a catastrophic equipment failure. **Demand-Based-** Production or distribution limitations or catastrophic equipment failure occurs.		
Supply-Based- Well has not ran out of water to date.	**Critical Water Use Restrictions**	No triggers provided by entity.		
Daily demand reaches 80% of production capacity per day.	**Critical Use Restrictions**	Daily demand reaches 90% of production capacity.	**Emergency Water Use Restrictions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.
Supply-Based- Water consumption has reached 90% of daily max supply for 3 consecutive days. **Demand-Based-** The water level in any of the water storage tanks cannot be replenished for 3 consecutive days. The highest recorded level drops 8-ft or more for 2 consecutive days.	**Critical Water Use Restrictions**	**Supply-Based-** Water consumption has reached 95% of daily max supply for 3 consecutive days. **Demand-Based-** Water consumption of 100% of the max available and the water storage levels in the system drop during a 24-hour period.		
Supply-Based- Water consumption has reached 90% of daily max supply for 3 consecutive days. **Demand-Based-** The water level in any of the water storage tanks cannot be replenished for 3 consecutive days.	**Critical Water Use Restrictions**	**Supply-Based-** Water consumption has reached 95% of daily max supply for 3 consecutive days. **Demand-Based-** Water consumption of 100% of the max available and the water storage levels in the system drop during a 24-hour period.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Failure of a major component of the system or a event which reduces the min residual pressure below 20 psi for a period of 24 hours or longer. 2. Water consumption of 95% or more of the max available for 3 consecutive days. 3. Water storage levels in the system drop during one 24-hour period. 4. Natural or man-made contamination of the water supply source. 5. The declaration of a state of disaster due to drought conditions in a county or counties served by the Corporation. 6. Other unforeseen events which could cause imminent health or safety risks to the public.				
1. Failure of a major component of the system or a event which reduces the min residual pressure below 20 psi for a period of 24 hours or longer. 2. Water consumption of 95% or more of the max available for 3 consecutive days. 3. Water storage levels in the system drop during one 24-hour period. 4. Natural or man-made contamination of the water supply source. 5. The declaration of a state of disaster due to drought conditions in a county or counties served by the Corporation. 6. Other unforeseen events which could cause imminent health or safety risks to the public.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Notification from wholesaler, City of Mineral Wells, to initate stage 3 of the plan. 2. When the average daily water consumption reaches 110% of production capacity for a 24-hr period; average daily water consumption will not enable storage levels to be maintained; water system is contaminated either accidently or intentionally; any mechanical failure of pumping equipment, which will require more than 12-hrs to repair.				
Total daily demand reaches 60% of pumping capacity.	**Critical Water Use Restrictions**	Total daily demand reaches 70% of pumping capacity.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the firm system capacity of 1.4 mgd for three consecutive days. 3. All available water supply, such as Eagle Mountain Lake, level is so low that the pumps cannot pump the daily demand. 4. All water is being pumped from system's storage reservoirs and all replenishment of water reservoirs has stopped.				
When continually falling treated water reservoir levels do not refill above 85% overnight or on such occasion as the water suppliers curtail the delivery of water to the Corporation, or during occasions when water mains break or other operational problems hinder the systems ability to meet demands.	**Critical Water Shortage Conditions**	When continually falling treated water reservoir levels do not refill above 75% overnight or on such occasion as the water suppliers curtail the delivery of water to the Corporation, or during occasions when water mains break or other operational problems hinder the systems ability to meet demands.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. Water suppliers curtail the delivery of water to the Corporation. 4. Water main breaks or other operational problems diminish the ability of the system to meet the demand.

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Notification from the City of Rockwall(supplier) to initiate stage 3	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. Natural disaster, massive power outage; or 4. City of Rockwall gives notification to initiate stage 4.		
City's wholesaler, NTMWD notifies requesting initiation of STAGE 3; or the total daily water demand equals or exceeds 16.9 mgd for 3 consecutive days.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. Natural disaster, massive power outage; or 4. City's wholesaler, NTMWD notifies requesting initiation of STAGE 4.		
Daily water use equals or exceeds 15 mgd (150% of treatment capacity) for five consecutive days; and/or the storage capacity levels continually recede on a daily basis and remain below 50% of storage capacity for 72 consecutive hours, and the Water Authority Manager				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. When overnight recovery rate reaches less than 8-ft of head in storage. 2. Total daily demand reaches a pumping capacity of 95%. 3. Total daily demand reaches 95% of storage capacity.	**Critical Water Use Restrictions**	1. When overnight recovery rate reaches less than 6-ft of head in storage. 2. Total daily demand reaches a pumping capacity of 100%. 3. Total daily demand reaches 100% of storage capacity. 4. System outage 5. One or more combined mechanical failures.		
1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the water system design capacity of 18.0 mgd for 3 consecutive days. 3. The TRA (treated water supply) cannot, by virtue of their own water shortages, meet the demands of the City of Colleyville for furnishing the required supply per the contractual agreement between the 2 entities.				
Supply-Based: Overnight recovery rates reach 4-feet. Demand-Based: Pumps are pumping for 18-hrs per day or a production or distribution limitations.	**Critical Water Use Restrictions**	Supply-Based: Overnight recovery rates reach 2-feet, or supply contamination. Demand-Based: Pumps are pumping for 24-hrs per day, production or distribution limitations, or a system outage.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Only Wells #1 and #2 pumping and/or degraded distribution system capacity.	**Water Emergency**	Only Well #1 or Well #2 is pumping and/or degraded distribution system capacity.	**Water Crisis**	System outage and/or source contamination
Water storage in TRWD reservoirs has declined to 25% of capacity; or demand exceeds 95% of deliverable capacity for 5 consecutive days; or water demand exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	**Water Emergency**	Water Storage in TRWD reservoirs has declined to 20% of capacity; or demand exceeds 100% of deliverable capacity for 2 consecutive days; or water demand seriously exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.		
Daily water demand reaches 100% of the production capacity of the system for 3 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard; or a significant reduction in the production capacity of the system is experienced.				
Stage is initiated when total dail water demand from the Well is greater than 17,000 gallons, or exceeds 119,000 in a 7 consecutive day period.	**Water Allocation**	Stage is initiated when water is being used faster than it is being restored to the storage tank.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. When the water supply available to the city is equal to or less than 1.1 MGD. 2. When notification from provider the City of Fort Worth is received to initate Stage 3 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 75% of the well's original specific capacity. 4. The total daily demand equals or exceeds 1.5 MGD for three consecutive days or 1.7 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 75% overnight.	**Critical Water Shortage Conditions**	1. When the water supply available to the city is equal to or less than 1.0 MGD. 2. When notification from provider the City of Fort Worth is received to initate Stage 4 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 65% of the well's original specific capacity. 4. The total daily demand equals or exceeds 1.6 MGD for three consecutive days or 1.8 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 65% overnight.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.
Daily water demand exceeds 95% of the production capacity of the system for five consecutive days.	**Water Crisis**	Daily water demand exceeds 100% of the production capacity of the system for 2 consecutive days.		
1. When overnight recovery rate reaches less than -8-ft of head in storage. 2. Total daily demand reaches 40% of storage capacity.	**Critical Water Use Restrictions**	1. When overnight recovery rate reaches less than -10-ft of head in storage. 2. Total daily demand reaches 45% of storage capacity.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Average daily water consumption will not allow the storage levels in the ground storage tanks or elevated tanks to be maintained. 2. System demand exceeds the high service pumping capacity. 3. Water system is contaminated.				
1. Water storage in TRWD reservoirs has declined to 25% of capacity. 2. Demand exceeds 95% of deliverable capacity for 5 consecutive days. 3. Water demand exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	**Water Emergency**	1. Water storage in TRWD reservoirs has declined to 20% of capacity. 2. Demand exceeds 100% of deliverable capacity for 2 consecutive days. 3. Water demand seriously exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.		
Supply-Based Triggers- Water level reaches 285.50 MSL stabilized hydrographic during pumping cycle. Demand-Based Trigger- Total demand as % of storage capacity reaches 180%.	**Critical Water Use Restrictions**	Supply-Based Triggers- Water level reaches 284.50 MSL stabilized hydrographic during pumping cycle; or supply contamination; or there is an equipment failure. Demand-Based Trigger- Total demand as % of storage capacity reaches 200%.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Storage in the 12-ft by 80-ft standpipe has dropped to 50% capacity. 2. Demands exceed 95% of deliverable capacity for three consecutive days. 3. Short-term deficiencies in the distribution system limit supply capability.	**Critical Water Use Restrictions**	1. Storage in the 12-ft by 80-ft standpipe has dropped to 10% capacity. 2. Demands exceed 100% of deliverable capacity for three consecutive days. 3. Short-term deficiencies in the distribution system limit supply capability.		
TRWD's East Texas delivery system(Cedar Creek and Richland-Chambers pipelines) demands reach 90% of capacity for 3 consecutive days.	**Water Warning**	Demands exceed East Texas delivery system capacity for a 24 hour period.	**System Emergency**	Due to pipeline or equipment emergency, or contamination, the TRWD anticipates water deliveries to be adversely affected or otherwise disrupted.
Stage III begins when there is an equipment failure or production or distribution limitations.	**Critical Water Use Restrictions**	Stage IV begins when there is a supply contaminaiton, production or disturbution limitations, or a system outage.		
Supply-Based: Overnight recovery rates reach 10-feet. Demand-Based: Pumps are pumping for 14-hrs per day or a production or distribution limitations.	**Critical Water Use Restrictions**	Supply-Based: Overnight recovery rates reach 8-feet. Demand-Based: Pumps are pumping for 16-hrs per day or a production or distribution limitations.		
Daily water demand reaches 100% of the production capacity of the system for 3 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard; or a significant reduction in the production capacity of the system.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).				
Drinking water treatment reaches 100% of capacity. Total daily demand reaches 50% of pumping capacity. Pump hours per day reaches 24-hrs.	**Critical Water Use Restrictions**	Supply less than 50% of base capacity, drinking water treatment reaches 100% of capacity, total daily demand reaches less than 100% of pumping capacity and 80% of total storage capacity, or production or distribution limitations.		
Bradberry WSC well(s) is equal to or less than 25% of the well's original specific capacity; or when the storage tank does not refill overnight, or as normal.	**Critical Water Use Restrictions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Average daily water consumption reaches 110% of production capacity. 2. Average daily water consumption will not enable storage levels to maintained. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in moderate drought classification occurs at the same time for a 24-hour period. 5. Water system is contaminated either accidentally or intentionally. Severe condition is reached immediately detection. 6. Water system fails from acts of God or man. Severe conditions is reached immediately upon detection.				
Supply-Based- Overnight recovery rate reaches 8-ft. Demand or Capacity-Based- Total daily demand reaches 75% of pumping capacity or Pumps are pumping 24 hrs per day.				
1. When the total dailly water demand equals or exceeds 225,000 gallons for 5 consecutive days or 240,000 gallons for a single day.	**Critical Water Shortage Conditions**	1. When the total dailly water demand equals or exceeds 250,000 gallons for 5 consecutive days or 260,000 gallons for a single day.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the capacity of the plant -720,000 for 3 consecutive days or when the level of the lake is down to 810 MSL.				
When water pressures leaving the water plant drops to 96 psi or total water demand equals or exceeds 750,000 gallons for 3 consecutive days.	**Critical Water Shortage Conditions**	When water pressures leaving the water plant drops to 94 psi or total water demand equals or exceeds 850,000 gallons for 3 consecutive days.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.
Supply-Based- Total daily water demands equal or exceed 80% of plants original capacity. Demand-Based- Production or distribution limitations	**Critical Water Use Restrictions**	Supply-Based- 1. Supply contamination 2. Total daily water demands equal or exceed 85% of plants original capacity. Demand-Based- System outage		
Notification is received from B & B WSC.	**Critical Water Shortage Conditions**	Notification is received from B & B WSC.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.
When Lake Lavon water surface elevations lies between 470 and 453 ft MSL- as determined by NTMWD, or when notified by NTMWD to initiate stage.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Service pump runs continuously for more than 3 hours.	**Critical Water Use Restrictions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		
Sheet 4 missing.	**Critical Water Shortage Conditions**	1. The specific capacity of the water wells is equal to or less than 25% of the well's original specific capacity. 2. Continually falling treated water storage tank levels that do not refill above 25% overnight.	**Emergency Water Shortage Conditions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.
Stage will begin when overnight recovery rate reaches 4-ft, or due to production or distribution limitations.	**Critical Water Use Restrictions**	Stage will begin when supply is contaminated or there is a system outage.		
Usage is greater than water level in storage.	**Critical Water Use Restrictions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		
Stage will begin when ground storage in a 24 hour period exceeds 95% of our total ground storage capacity; or when total daily demand reaches 95% of the pumping capacity.	**Critical Water Use Restrictions**	Stage will begin when ground storage in a 24 hour period exceeds 100% of our total ground storage capacity; or when total daily demand reaches 100% of the pumping capacity.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Failure of a major component of the system or a event which reduces the min residual pressure below 20 psi for a period of 24 hours or longer. 2. Water consumption of 95% or more of the max available for 3 consecutive days. 3. Water storage levels in the system drop during one 24-hour period. 4. Natural or man-made contamination of the water supply source. 5. The declaration of a state of disaster due to drought conditions in a county or counties served by the Corporation. 6. Other unforeseen events which could cause imminent health or safety risks to the public.				
The well pump runs 6 hours in a 24 hour period.	**Critical Water Use Restrictions**	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
1. Failure of a major component of the system or a event which reduces the min residual pressure below 20 psi for a period of 24 hours or longer. 2. Water consumption of 95% or more of the max available for 3 consecutive days. 3. Water storage levels in the system drop during one 24-hour period. 4. Natural or man-made contamination of the water supply source. 5. The declaration of a state of disaster due to drought conditions in a county or counties served by the Corporation. 6. Other unforeseen events which could cause imminent health or safety risks to the public.				
1. Failure of a major component of the system or a event which reduces the min residual pressure below 20 psi for a period of 24 hours or longer. 2. Water consumption of 95% or more of the max available for 3 consecutive days. 3. Water storage levels in the system drop during one 24-hour period. 4. Natural or man-made contamination of the water supply source. 5. The declaration of a state of disaster due to drought conditions in a county or counties served by the Corporation. 6. Other unforeseen events which could cause imminent health or safety risks to the public.				

TINGENCY PLANS BY CITY

T CONTINGENCY PLAN

STAGE

3	4		5	
TRIGGER CONDITIONS	**CONDITION**	**TRIGGER CONDITIONS**	**CONDITION**	**TRIGGER CONDITIONS**
Supply-Based- Well level reaches 15-ft above pump. Demand-Based- Total daily demand reaches 90% of total pumping capacity.	**Critical Water Use Restrictions**	Supply-Based- Well level reaches 0-ft above pump. Demand-Based- Total daily demand reaches 100% of total pumping capacity.		
1. Total daily demand equals or exceeds 95% of the system's safe operating capacity. 2. Total daily demand equals or exceeds 100% of capacity on a single day. 3. There is a natural or man-made contamination of the water supply. 4. The declaration of a state of disaster due to drought conditions in a county or counties served by the Corp. 5. Reduction of wholesale water supply due to drought conditions. 6. Other unforeseen events which could cause imminent health or safety risks to the public.				

Table O-1
Region C: Emergency Drought Contingency Plans by Source

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
ELM FORK/LAKE GRAPEVINE SYSTEM	DWU	DALLAS	COLLIN, DALLAS, DENTON, KAUFMAN & ROCKWALL	1. Water reservoir levels drop below 65% of capacity. 2. Water demand exceeds 90% of system capacity for 3 consecutive days. 3. A short-term emergency situation occurs.	1. Water reservoir levels drop below 55% of capacity. 2. Water demand exceeds 90% of system capacity for 5 consecutive days. 3. A short-term emergency situation occurs.	1. Water reservoir levels drop below 45% of capacity. 2. Water demand exceeds 95% of system capacity for 2 consecutive days. 3. A short-term emergency situation occurs.	1. Water reservoir levels drop below 30% of capacity. 2. Water demand exceeds 98% of system capacity for 1 day. 3. A short-term emergency situation occurs.		**Municipal Gov**- 25% reduction in non-essential use, identify & repair small leaks, and reductions in landscape uses **Residential Actions**- Voluntary reduction in water usage **Commercial Actions**- Voluntary reduction in water usage **Industrial Actions**- Voluntary reduction in water usage
	DWU	ADDISON	DALLAS	Total raw water supply in connected lakes drops below 55% of total conservation storage, demand exceeds 90% of deliverable capacity for three consecutive day, or short term deficiencies in distribution system limit supply capability.	Total raw water supply in connected lakes drops below 50% of total conservation storage, demand exceeds 95% of deliverable capacity for two consecutive day.	Total raw water supply in connected lakes drops below 35% of total conservation storage, demand exceeds 95% of deliverable capacity for five consecutive day.	Total raw water supply in connected lakes drops below 20% of total conservation storage, demand exceeds 100% of deliverable capacity for two consecutive day.		The City manager requests voluntary reductions in water use. Notify major water users & work with them to achieve voluntary reduction. Prohibit city government use of water for all non-essential use. Request a reduction in landscape watering by city government.
	DWU	CARROLLTON	DALLAS & DENTON	Will begin every May 15 and last until September 15.	Stage has 2 levels, and is triggered by the inability to recover 90% in all storage facilities within 48 hours.	Stage has 2 levels, and is triggered by the inability to recover 90% in all storage facilities within 24 hours.	City will enact stage 4 upon notification from DWU of critical situation; or major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service.		City Manager will request voluntary reductions in use.
	DWU	COPPELL	DALLAS	***Refer to the City of Dallas**					
	DWU	FARMERS BRANCH	DALLAS	***Refer to the City of Dallas**					
	DWU	GRAND PRAIRIE	DALLAS, ELLIS & TARRANT	***Refer to the City of Dallas**					
	DWU	IRVING	DALLAS	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 1. 2. Water demand exceeds 90% of the current maximum flow rate contracted with DWU for 3 consecutive days. 3. Short-term deficiencies in the City's distribution system limit supply capabilities.	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 2. 2. Water demand exceeds 100% of the current maximum flow rate contracted with DWU for 5 consecutive days. 3. Water demand exceeds 103% of the current maximum flow rate contracted with DWU for 3 consecutive days. 4. Short-term deficiencies in the City's distribution system limit supply capabilities. 5. Inability to maintain or replenish volumes of storage to provide for public health and safety.	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 3. 2. Short-term deficiencies in the City's distribution system limit supply capabilities. 3. Inability to maintain or replenish volumes of storage to provide for public health and safety.	1. Pursuant to requirements specified in the wholesale treated water purchase contract, notification is received from DWU requesting initiation of STAGE 4. 2. Short-term deficiencies in the City's distribution system limit supply capabilities. 3. Inability to maintain or replenish volumes of storage to provide for public health and safety.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary reduction in water use. 1. Irving Water Utility staff will communicate as necessary with DWU to initiate joint water management programs. 2. Irving Water Utility staff will work with major water users to voluntarily reduce water use. 3. Irving Water Utility staff will conduct public information programs to educate its customers, enlist their support of voluntary water use restrictions, and to remind customers that the summer water surcharge rate structure is in effect.
	DWU	LEWISVILLE	DALLAS & DENTON	***Refer to the City of Dallas**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	UTRWD	ARGYLE	DENTON	1. Average daily water consumption reaches 90% of water treatment plant capacity for 3 consecutive days. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to be considered in impact analysis.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. One ground storage tank at the pump station or one clearwell at the water treatment plant is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during a period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 110% of rated production capacity. 2. Average daily water consumption will not allow storage levels to be maintained in District clearwells and ground storage tanks. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in Moderate condition stage occur at the same time for 24-hour period. 5. Water system is contaminated. Severe condition is reached immediately upon detection. 6. Water system fails from acts of God or man. Severe condition is reached immediately upon detection.			Inform the public of the condition and ask them to voluntarily conserve water. Assist participants in contacting any large industrial users and discuss need for initiation of conservation measures.
	UTRWD	AUBREY	DENTON	1. Notification from UTRWD to begin Stage 1 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 90% of the wells original capacity.	1. Notification from UTRWD to begin Stage 2 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 85% of the wells original capacity. 3. When the total daily demands equal or exceed .400 mgd for 3 consecutive days or .425 mgd for a single day.	1. Notification from UTRWD to begin Stage 3 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 80% of the wells original capacity. 3. When the total daily demands equal or exceed .425 mgd for 3 consecutive days or .450 mgd for a single day.	1. Notification from UTRWD to begin Stage 4 of the Plan. 2. When the combined specific capacity of the City's well is equal to or less than 75% of the wells original capacity. 3. When the total daily demands equal or exceed .450 mgd for 3 consecutive days or .475 mgd for a single day.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: 1. Reduce or discontinue flushing of water mains. 2. Activate and use an alternative supply source as needed. 3. Use reclaimed water for non-potable purposes. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Aubrey shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.
	BARTONVILLE WSC	BARTONVILLE	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	BARTONVILLE WSC	COPPER CANYON	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	UTRWD	CORINTH	DENTON	***Refer to the City of Argyle**					
	MUSTANG WSC	CROSSROADS	DENTON	Peak daily water use is approaching 75% of potential daily production rate (existing volume 588,600 gpd) for 3 consecutive days. Consideration will be given to time of year and weather conditions.	The potential daily production rate is reduced due to failure in the water plant's mechanical capabilities, therefore refilling the water storage facilities is rendered impossible. The restriction will be inforced if repairs can not be made within 48 hrs.	Peak Daily Water use is approaching 90% of potential daily production rate (existing volume 706,320 gpd), for 3 consecutive days.	The imminent or actual failure of a major component of the system which would cause an immediate health of safety hazard. Water demand is exceeding the capacity of the plant- 784,800 gpd for 3 consecutive days.		Alternate day usage of water for outdoor purposes such as lawns, gardens, car washing, etc. The provisions for the alternate day use will be specified by the Corporation in a written notice.

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	DWU	DENTON	DENTON	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 65% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 3 consecutive days. Type C- Water demand approaches a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 55% of the total conservation storage. Type B- Water demand has reached or exceeded 90% of delivery capacity for 5 consecutive days. Type C- Water demand equals a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 45% of the total conservation storage. Type B- Water demand has reached or exceeded 95% of delivery capacity for 2 consecutive days. Type C- Water demand exceeds a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.	Type A- Total raw water supply in Denton and Dallas connected lakes has dropped below 30% of the total conservation storage. Type B- Water demand has reached or exceeded 98% of delivery capacity for 1 consecutive days. Type C- Water demand seriously exceeds a reduced delivery capacity for all or part of the system, as determined by City of Denton Water Utilities.		A potential serious drought contingency condition exists for all or part of the system. Initiate a public awareness campaign to inform the public that the City is concerned about water uses and that staff is watching the water sources and evaluating conditions on a daily basis. Encourage public and internal users to voluntarily reduce water consumption. Encourage city governments to take the lead by reducing water use.
	BARTONVILLE WSC	DOUBLE OAK	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	UTRWD	FLOWER MOUND	DENTON	***Refer to the City of Argyle**					
	LAKE CITIES MUA	HICKORY CREEK	DENTON	1. Average daily water consumption reaches 90% of rated production capacity for a 3 day period. 2. Weather conditions are to be considered in determining severity of water navigability. Predicted long, cold or hot, dry periods need to be considered.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption will not allow the storage levels in the ground storage tanks or elevated storage tanks to be maintained. 2. System demand exceeds the high service pumping capacity. 3. Water system is contaminated. 4. Water system fails from acts of God or man. 5. One pump station is taken out of service during a period of heavy demand.			1. The General Manager of the Authority will notify the local fire dept. of the status of the system and request notice of any fire event. 2. Designate a person to manage various stages of emergency water demand management. 3. Contact large commercial or industrial users and inform them of the need for initiation of conservation methods. 4. Review systems capabilities and make any repairs needed.
	UTRWD	HIGHLAND VILLAGE	DENTON	***Refer to the City of Argyle**					
	LAKE CITIES MUA	LAKE DALLAS	DENTON	***Refer to the City of Hickory Creek**					
	UTRWD & MUSTANG WSC	LINCOLN PARK	DENTON	***Refer to Cities of Argyle & Crossroads**					
	UTRWD	OAK POINT	DENTON	***Refer to the City of Argyle**					
	LAKE CITIES MUA	SHADY SHORES	DENTON	***Refer to the City of Hickory Creek**					
	DWU	THE COLONY	DENTON	1. DWU declares STAGE 1 or the average daily water consumption reaches 90% of delivery capacity. 2. Consumption (90%) has existed for a period of 3 days. 3. Weather conditions are to considered in drought classification determination.	1. DWU declares STAGE 2 or the average daily water consumption reaches 90% of rated delivery capacity for a 3 day period. 2. Weather conditions indicate a mild drought will exist for 5 days or more. 3. The ground storage reservoirs or elevated tanks are taken out of service. 4. Water levels in the elevated tanks or ground storage reservoirs is not being maintained during period of 100% rated production for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and can not be repaired within 12 hours.	1. DWU declares STAGE 3 or the average daily water consumption reaches 90% of delivery capacity following STAGE 2. 2. Average daily consumption will not enable storage levels to be maintained 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in moderate drought conditions at the same time with a 24 hour period. 5. Water system is contaminated either accidentally or intentionally. 6. Water system fails from acts of God or man.	1. DWU declares STAGE 4 water crisis. 2. Local demand exceeds 90% of deliverable capacity for three consecutive days following STAGE 3 Water Emergency.		1. Inform the public of the situation and encourage voluntary reduction of water use. 2. Contact commercial and industrial users and explain necessity for initiation of strict conservation methods. 3. Limit irrigation, washing vehicles, water use on construction sites and city discontinues non-essential use.

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
RAY HUBBARD/TAWAKONI SYSTEM	DWU	DALLAS	COLLIN, DALLAS, DENTON, KAUFMAN & ROCKWALL	***Refer to the City of Dallas in Elm Fork/Lake Grapevine System**					
	DALLAS CO. WCID #6	BALCH SPRINGS	DALLAS	1. Dallas initiates action and requests customer cities to do likewise during high demand months. 2. Combined ground storage falls below 35% of capacity at the beginning of a 24-hour demand period.	1. Dallas supply cut by 20% on a continuous basis during high demand months. 2. Combined ground storage falls below 30% of total capacity at the beginning of a 24 hour demand period.	1. Dallas supply cut by 30% on a continuous basis during high demand months. 2. Combined ground storage falls below 25% of total capacity.			1. Designated official requests voluntary reductions in water use. 2. Accelerate public information efforts to teach reduced water use. 3. Notify major water users and request conservation. 4. Prohibit City Government from non-essential use. 5. Request reduction in landscape watering by City Gov. 6. Encourage less water use in construction projects.
	DWU	CEDAR HILL	DALLAS & ELLIS	Daily water demand reaches or exceeds 80% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 100% of the production capacity of the system for 5 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard.			1. Inform the public and encourage voluntary reductions in water use. 2. Notify major water users of the situation and encourage voluntary water conservation. 3. Publicize a voluntary lawn watering schedule. 4. During winter months request water users to insulate pipes rather than running water to prevent pipes from freezing.
	DWU	COCKRELL HILL	DALLAS	***Refer to the City of Dallas in Elm Fork/Lake Grapevine System**					
	COMBINE WSC	COMBINE	DALLAS	***No Emergency/Drought Contingency Plan Submitted**					
	DWU	DESOTO	DALLAS	***Refer to the City of Cedar Hill**					
	DWU	DUNCANVILLE	DALLAS	***Refer to the City of Cedar Hill**					
	DWU	GLENN HEIGHTS	DALLAS & ELLIS	Discretionary. 1. Based on static waters in the wells, whether or not within the 10% of normal. 2. Water demands above normal. 3. Time of the year is major factor. 4. No measurable rainfall in the last 30 days. 5. Weather forecast	All wells being monitored as to the static water level below the ground surface. Normal water level being 600.0 feet in Glenn Heights for the Woodbine Sand Aquifer. Maximum level is 640.0 for STAGE 2 Emergency. Previous days water demand between 60-80% of peak.	All static water levels are below 640.0 and falling. The City has experienced failure to achieve water demand reduction objectives through voluntary curtailment. The previous days demand exceeded 80% of peak. The storage tanks fill no more than 65% overnight.	Static levels of wells are at or below 680.0 feet below the natural ground surface; failure to achieve water demand reduction objectives through STAGE 3 restrictions. Storage tanks filling up to less than 50% overnight; or emergency condition.	Emergency condition may be terminated at such time the storage reservoirs are able to fill 95% overnight for three consecutive nights, with favorable weather conditions prevailing.	Goal- 10% reduction in consumption. 1. Inform the public. 2. Notify major commercial users. 3. Increase water supply & demand monitoring. 4. Increase leak detection and repair efforts.
	DWU	HUTCHINS	DALLAS	***Refer to the City of Dallas in Elm Fork/Lake Grapevine System**					
	DWU	LANCASTER	DALLAS	***Refer to the City of Cedar Hill**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	CEDAR HILL	OVILLA	DALLAS & ELLIS	1. Water consumption has reached 80% of daily maximum supply for 3 consecutive days. 2. Supply has been reduced to 120% of average consumption for previous week. 3. There is an extended period of at least 8 weeks of low rainfall and water use has risen 20% above the use for the same period during the previous year.	1. Water consumption has reached 90% of daily maximum supply for 3 consecutive days. 2. The highest level measured each day in the water storage standpipe drops by 2 feet or more for 3 consecutive days.	1. Failure of a major component of the system or an event which reduces the minimum residual pressure below 20 psi for a period of 2 days or longer. 2. Water consumption has reached 95% of daily maximum supply for 3 consecutive days. 3. Water consumption of 100% or more of the maximum available and the water level in the water storage standpipe drops in one 24 hour period. 4. Other unforeseen events which could cause imminent health or safety risks to the public.			1. Encourage voluntary reduction of use through the news media. 2. Reduce fire drills which use water. 3. Minimize water flushing by the water utility operators and delay water flushing associated with construction projects. 4. Plan for increase in water supply by investigating new sources or discussing a modification to the water supply contract with Cedar Hill.
	DWU	SEAGOVILLE	DALLAS	***Refer to the City of Dallas in Elm Fork/Lake Grapevine System**					
	DWU	OAK LEAF	ELLIS	***Refer to the City of Dallas in Elm Fork/Lake Grapevine System**					
	COMBINE WSC	COMBINE	KAUFMAN	***No Emergency/Drought Contingency Plan Submitted**					
NORTH TEXAS MWD SYSTEM	NTMWD	ALLEN	COLLIN	WSE of Lake Lavon lies between 480-475 feet MSL; or the water demand equals or exceeds 95% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 90% of the normal operating elevation within 45 consecutive days.	WSE of Lake Lavon lies between 475-470 feet MSL; or the water demand equals or exceeds 97% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 80% of the normal operating elevation within 45 consecutive days.	WSE of Lake Lavon lies between 470-453 feet MSL; or the water demand equals or exceeds 99% of the plant capacity for 30 consecutive days; or if any reservoir in the District is not able to recover 60% of the normal operating elevation within 45 consecutive days.			1. NTMWD will notify water users to start Drought Condition Operations under the NTMWD plan or start their plans.
	NTMWD	FAIRVIEW	COLLIN	***Refer to the City of Allen**					
	NTMWD	FARMERSVILLE	COLLIN	***Refer to the City of Allen**					
	NTMWD	FRISCO	COLLIN & DENTON	***Refer to the City of Allen**					
	NTMWD	GARLAND	COLLIN & DALLAS	The City's provider, NTMWD requests initiation of STAGE 1; or total daily water demand equals 80% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 80% overnight.	The City's provider, NTMWD requests initiation of STAGE 2; or total daily water demand equals 90% of the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 65% overnight.	The City's provider, NTMWD requests initiation of STAGE 3; or total daily water demand equals the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 50% overnight.	The City's provider, NTMWD requests initiation of STAGE 4; or total daily water demand exceeds the safe operating capacity, and continually falling treated water reservoir levels that do not refill above 20% overnight.	The water system experiences catastrophically decreasing reservoir levels or delivery capacities' major water line breaks or pump or system failures occur' natural or man-made contamination of the water supply occurs or is suspected'or other conditions arise that constitute an unprecedented loss of capability to provide water service adequate for the public health, safety, or welfare.	1. Customers will be requested to voluntarily limit landscape watering to designated watering days. 2. Customers will also be requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.
	NTMWD	LUCAS	COLLIN	***Refer to the City of Allen**					
	NTMWD	MCKINNEY	COLLIN	***Refer to the City of Allen**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	NTMWD-NORTH COLLINS WSC	MELISSA	COLLIN	When NTWMD Plan Mild trigger is achieved.	When NTWMD Plan Moderate trigger is achieved.	When the NTMWD Plan Severe trigger is achieved.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		Goal: Achieve the percent reduction set by NTMWD in daily water demand. Supply Management- North Collin Water Supply will reduce flushing of water mains. Recommended Customer Measures- 1. Water Customers are requested to voluntarily limit the irrigation of landscaped areas to Sundays and Thursdays and only between the hours of midnight and 10am and 8pm to midnight. 2. Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.
	NTMWD	MURPHY	COLLIN	Stage will begin upon notification from wholesaler NTMWD.	Stage will begin upon notification from wholesaler, NTMWD, total daily demand equals or exceeds 90% of the system's safe operating capacity for 3 consecutive days, or equals or exceeds 95% of the system's capacity on a single day.	Stage will begin upon notification from wholesaler, NTMWD, total daily demand equals or exceeds 95% of the system's safe operating capacity for 3 consecutive days, or equals or exceeds 100% of the system's capacity on a single day.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.		Goal- Achieve a voluntary reduction as requested by NTMWD. Supply Management Measures- Reduced or discontinued flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Murphy shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.
	NTMWD	NEW HOPE	COLLIN	***Refer to the City of Allen**					
	NTMWD	PARKER	COLLIN	***Refer to the City of Allen**					
	NTMWD	PLANO	COLLIN & DENTON	1. General or Geographic emergency 2. Water system failures/emergencies 3. Supply failure from NTMWD 4. An inability to recover 90% in all storage facilities within a 24-hour period. 5. An inability to recover 90% in all storage facilities within 48-hour period.	Stages 2 & 3 are missing from the report.				Inform the public and encourage voluntary water reductions.

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	NTMWD	PRINCETON	COLLIN	Average daily water consumption reaches 90% of the system's firm pumping capacity; or average daily water consumption reaches 90% of the production capacity and/or the contractual amount of the water provider.	Average daily water consumption reaches 100% of the system's firm pumping capacity for a period of 3 days; or average daily water consumption reaches 100% of the production capacity and/or the contractual amount of the water provider; or water levels in ground and/or elevated storage tanks are not being maintained(greater than 50% of full volume) during periods when the water plant is operating @ 100% of its production capacity.	Average daily water consumption reaches 100% of the system's total pumping capacity for a period of 3 days; or average daily water consumption exceeds 100% of the production capacity and/or the contractual amount of the water provider; or water levels in ground and/or elevated storage tanks are less than 25% of full volume; or water system fails due to acts of God or man.			
	NTMWD	RICHARDSON	COLLIN & DALLAS	By April 30 of each year the Director of Public Services shall forecast water supply and potential water demands for May 1 through September 30 of that year. The forecast will be based on supply information from NTMWD and from City pumping reports.	The City's inability to recover water storage approximately 90% in all storage facilities within a 24-hour period.	The City's inability to recover water storage approximately 90% in all storage facilities within a 48-hour period.	1. Natural Disasters 2. Water system failures 3. Supply failure from the NTMWD or initiation of any stage in the NTMWD Drought Contingency Plan.		1. Annually from May 1 through Sept. 30, the Director of public services shall accerate public information efforts to educate and encourage voluntary reductions in water use. 2. Request that users voluntarily reduce water usage, and inform major water consumers to initiate water consumption measures.
	NTMWD	ROYSE CITY	COLLIN & ROCKWALL	***Refer to the City of Allen**					
	NTMWD	SACHSE	COLLIN & DALLAS	***Refer to the City of Allen**					
	NTMWD	WYLIE	COLLIN & ROCKWALL	***Refer to the City of Allen**					
	NTMWD	MESQUITE	DALLAS	Total daily water demand equals or exceeds 37 million gallons for 14 consecutive days or 40 million gallons for 7 consecutive days; or continually falling treated water ground reservoir levels do not refill above 60% overnight for 7 consecutive days; or continually falling treated water overhead storage levels do not refill above 60% overnight for 3 consecutive days.	Total daily water demand equals or exceeds 40 million gallons for 7 consecutive days or 42 million gallons for 3 consecutive days; or continually falling treated water ground reservoir levels do not refill above 50% overnight for 4 consecutive days; or continually falling treated water overhead storage levels do not refill above 50% overnight for 3 consecutive days.	Total daily water demand equals or exceeds 42 million gallons for 3 consecutive days or 44 million gallons on a single day; or the available water supply to the City of Mesquite is equal to or less than 44 mgd; or continually falling treated water ground reservoir levels do not refill above 40% overnight for 3 consecutive days; or continually falling treated water overhead storage levels do not refill above 40% overnight for 3 consecutive days.	*Not listed in the report(page missing)	*Not listed in the report(page missing)	Goal- Achieve a voluntary 5% reduction in total daily water demand and reduce consumption during peak times. 1. Water customers are requested to voluntarily limit landscape watering to non-peak hours. Outdoor water use is prohibited between the hours 4 pm and 9 pm and all day Sunday. Use of automatic irrigation systems will be limited to the hours of 1 am to 6 am and prohibited on Sundays. 2. Water customers are requested to minimize or discontinue water use for non-essential purposes. 3. Use of soaker hoses is permitted at all times for foundations only.

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	NTMWD	ROWLETT	DALLAS & ROCKWALL	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 1. 2. Total daily water demand equals 80% of the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 80% overnight.	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 2. 2. Total daily water demand equals 90% of the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 65% overnight.	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 3. 2. Total daily water demand equals the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 50% overnight.	1. NTMWD notifies the Director of Utilities of delivery or source shortages and requests initiation of STAGE 4. 2. Total daily water demand exceeds the safe operating capacity. 3. Continually falling treated water reservoir levels do not fill above 20% overnight.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: 1. Reduce or discontinue flushing of water mains. 2. Discontinue work site wash downs. 3. Reduce or discontinue irrigation of public landscaped areas. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Rowlett Water Utilities shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.
	NTMWD	SUNNYVALE	DALLAS	***Refer to the City of Allen**					
	NTMWD	CRANDALL	KAUFMAN	1. Daily water demand exceeds 700,000 gallons per day for three consecutive days. 2. Distribution pressure remains below 45 psi for more than six consecutive hours.	1. Daily water demand exceeds 850,000 gallons per day for three consecutive days. 2. Distribution pressure remains below 40 psi for more than six consecutive hours. 3. Storage remains below 75% of total storage capacity (625,000 gallons) for more than 2 consecutive days.	1. Daily water demand exceeds 1.0 mgd for three consecutive days. 2. Distribution pressure remains below 30 psi for more than six consecutive hours. 3. Storage remains below 50% of total storage capacity (625,000 gallons) for more than 2 consecutive days. 4. Failure of essential system component is imminent potentially causing immediate health or safety hazard.			Inform public of situation, notify major water users and request voluntary use reductions, and institute and publicize a voluntary lawn watering schedule. During winter months request water users to insulate pipes in lieu of continuously running water to prevent freezing.
	NTMWD	FORNEY	KAUFMAN	***Refer to the City of Allen**					
	NTMWD	KAUFMAN	KAUFMAN	Daily water demand exceeds 2,000,000 gpd for 3 consecutive days; or water pressure in system remains below 45 psi for 6 consecutive hours; or water levels in Lake Lavon fall between 482-475 feet MSL.	Daily water demand exceeds 2,200,000 gpd for 3 consecutive days; or water pressure in system remains below 40 psi for 6 consecutive hours; or ground water storage reservoir remains below 70% of total storage for 3 consecutive days; or failure of raw water transmission line from NTMWD for more than 6 consecutive hours; or water levels in Lake Lavon fall between 475-468 feet MSL.	Daily water demand exceeds 2,500,000 gpd for 3 consecutive days; or failure of raw water transmission line from NTMWD for more than 12 consecutive hours during June, July, or August; or water levels in Lake Lavon fall between 468-453 feet MSL; or imminent or actual failure of system component where immediate health or safety hazards exist.	Natural disasters, massive power outages, massive equipment or facility failures, or public water supply contamination		Inform public of situation, notify major water users and request voluntary use reductions, and institute and publicize a voluntary lawn watering schedule.
	NTMWD	OAK GROVE	KAUFMAN	***Refer to the City of Allen**					
	NTMWD	HEATH	ROCKWALL	***Refer to the City of Rockwall**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	NTMWD	ROCKWALL	ROCKWALL	City's wholesaler, NTMWD notifies requesting initiation of STAGE 1; or the total daily water demand equals or exceeds 15.2 mgd for 3 consecutive days or 16.1 mgd on a single day.	City's wholesaler, NTMWD notifies requesting initiation of STAGE 2; or the total daily water demand equals or exceeds 16.1 mgd for 3 consecutive days or 16.9 mgd on a single day.	City's wholesaler, NTMWD notifies requesting initiation of STAGE 3; or the total daily water demand equals or exceeds 16.9 mgd for 3 consecutive days.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. Natural disaster, massive power outage; or 4. City's wholesaler, NTMWD notifies requesting initiation of STAGE 4.		Goal- Achieve a voluntary 5% reduction in daily water demand. Supply Management Measures: Reduce flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.
TRINITY AQUIFER	SG	ANNA	COLLIN	***No Emergency/Drought Contingency Plan Submitted**					
	SG	CELINA	COLLIN	The warning light on the 150,000 gallon ground storage tank is activated intermittently for five consecutive days.	The warning light on the 150,000 gallon ground storage tank remains activated for five consecutive days.	The warning light on the 150,000 gallon ground storage tank remains activated for ten consecutive days after declaration of a moderate drought.			1. Inform the public and supply users with recommendation of ways to conserve water. 2. Post voluntary lawn watering schedule.
	SG	GAINESVILLE	COOKE	Total daily water demand equals or exceeds 80% or 4.14 mgd for five consecutive days.	Total daily water demand equals or exceeds 90% or 4.65 mgd for three consecutive days.	Total daily water demand equals 100% or 5.169 mgd for three consecutive days.			Goal- Achieve a voluntary 5% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Gainesville shall adhere to water use restrictions prescribed for stage 2 of the plan. 3. Water customers are requested to practice water conservation
	SG	LINDSAY	COOKE	***No Emergency/Drought Contingency Plan Submitted**					
	SG	MUENSTER	COOKE	***No Emergency/Drought Contingency Plan Submitted**					
	SG	VALLEY VIEW	COOKE	***No Emergency/Drought Contingency Plan Submitted**					
	SG	CARROLLTON	DALLAS & DENTON	***Refer to the City of Carrollton in Elm Fork/Lake Grapevine System**					
	SG	CEDAR HILL	DALLAS & ELLIS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**					
	SG	DESOTO	DALLAS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	SG	GRAND PRAIRIE	DALLAS, ELLIS & TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	IRVING	DALLAS	***Refer to the City of Irving in Elm Fork/Lake Grapevine System**					
	SG	LANCASTER	DALLAS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**					
	GW	WILMER	DALLAS	***No Emergency/Drought Contingency Plan Submitted**					
	SG- ARGYLE WSC	ARGYLE	DENTON	**Drought contingency plan is provided by the Argyle WSC.**					
	SG	AUBREY	DENTON	***Refer to the City of Aubrey in Elm Fork/Lake Grapevine System**					
	SG-BARTONVILLE WSC	BARTONVILLE	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	BARTONVILLE WSC	COPPER CANYON	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	CORINTH	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	BARTONVILLE WSC	DOUBLE OAK	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	FRISCO	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	LAKE CITIES MUA	HICKORY CREEK	DENTON	***Refer to the City of Hickory Creek in Elm Fork/Lake Grapevine System**					
	SG	HIGHLAND VILLAGE	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	JUSTIN	DENTON	1. Daily demand exceeds 200,000 gpd for 3 consecutive days. 2. Distribution pressure remains below 45 psi for more than 6 consecutive hours.	1. Daily demand exceeds 220,000 gpd for 3 consecutive days. 2. Distribution pressure remains below 40 psi for more than 6 consecutive hours. 3. Elevated storage reservoir remains below 50 percent of full capacity for more than 2 consecutive days. 4. Failure of one well simultaneous to a mild condition occurrence.	1. Daily demand exceeds 240,000 gpd for 3 consecutive days. 2. Failure of two wells during June, July, or August or simultaneous to a mild or moderate condition occurrence. 3. Imminent failure of system component where immediate health or safety hazards exist.			1. Inform the public of situation and request voluntary reduction. 2. Inform major commercial users and request conservation. 3. Publicize voluntary lawn watering schedule. 4. During winter months request water users to insulate pipes rather than running water to prevent freezing.
	SG-KRUGERVILLE WSC	KRUGERVILLE	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	KRUM	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	LAKE CITIES MUA	LAKE DALLAS	DENTON	***Refer to the City of Hickory Creek in Elm Fork/Lake Grapevine System**					
	SG	LINCOLN PARK	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	N/A	OAK POINT	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	PILOT POINT	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	PONDER	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	ROANOKE	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	SANGER	DENTON	1. Peak daily water use is approaching 880,000 gpd, or 80% of the water supply rated as 1,100,000 gpd, for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year.	1. Peak daily water use is approaching 990,000 gpd, or 90% of the water supply rated as 1,100,000 gpd, for 3 consecutive days.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demands is exceeding the capacity of the system - 1,100,00 gallons per day for three consecutive days.			Step I- Inform the public and provide specific steps which can be taken. Notify major commercial users and request voluntary conservation. Implement the City's mandatory watering schedule, which is an odd/even system between the hours 6-10 am and 8-10 pm. During winter months request water user to insulate pipes instead of running water to prevent freezing. City will monitor lake levels.
	LAKE CITIES MUA	SHADY SHORES	DENTON	***Refer to the City of Hickory Creek in Elm Fork/Lake Grapevine System**					
	SG	THE COLONY	DENTON	***Refer to the City of The Colony in Elm Fork/Lake Grapevine System**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	SG- TROPHY CLUB #1	TROPHY CLUB	DENTON	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 1 restrictions.	Daily water demand reaches 95% of the production capacity of the system for 2 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 2 restrictions.	Daily water demand reaches 95% of the production capacity of the system for 5 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 3 restrictions.	Daily water demand reaches 100% of the production capacity of the system for 2 consecutive days; or demand approaches a reduced delivery capacity for all or part of the system due to supply or production capacity limitations; or when the City of Fort Worth gives notification to begin Stage 4 restrictions.		Goal- Raise public awareness of the supply situation. Supply Management Measures: 1. Prohibit municipal entities use of water for all non-essential uses. 2. Request a reduction in landscape water by municipal entities. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the Master District shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.
	SG	ITALY	ELLIS	Total daily demand equals or exceeds 350,000 gallons for 5 consecutive days or 400,000 gallons on a single day.	Total daily demand equals or exceeds 400,000 gallons for 5 consecutive days or 425,000 gallons on a single day.	Total daily demand equals or exceeds 425,000 gallons for 5 consecutive days or 450,000 gallons on a single day.	Total daily demand equals or exceeds 450,000 gallons for 5 consecutive days or 475,000 gallons on a single day.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. - Total daily demand equals 475,000 gallons for 5 consecutive days or 500,000 gallons for 2 days.	Goal- Achieve a voluntary 5% reduction in total use. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Italy shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	SG	MIDLOTHIAN	ELLIS	Joe Pool Lake water elevations are between 506-510 feet MSL, and water demand has reached 75% of the treatment plant's max. daily demand for two consecutive weeks.	Joe Pool Lake water elevations are between 496-506 feet MSL; or water demand has reached 90% of the treatment plant's max. daily demand for 5 consecutive days, and if no more rain occurs, Joe Pool Lake has an 18-month supply in storage.	Joe Pool Lake water elevations are between 482-496 feet MSL; or water demand has exceeded the treatment plant's max. daily demand on a regular basis and presents imminent danger of a major system failure; or water levels are low enough in the storage reservoirs to hinder fire protection, the imminent or actual failure of a major component of the system has occurred which will cause an immediate health or safety hazard, and due to natural or other disaster, the public water supply is not dependable and may not be suitable for human consumption.			Develop info center and designate info person. Inform public of situation and encourage voluntary reduction. Contact commercial and industrial users and explain necessity of initiation of strict conservation methods. Implementation of system oversight and make adjustments as required to meet changing conditions.
	SG	BELLS	GRAYSON	Loss of over one-third of water production from total pumpage of well #1, well #3 and well #4.	Depletion of 30% of storage tanks and inability to maintain 60% of storage capacity.	The Mayor, or his/her designee, determines the emergency by the following: 1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.			Public notification would go into effect requesting voluntary water conservation.
	SG	COLLINSVILLE	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	SHERMAN	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	TIOGA	GRAYSON	Daily water demand exceeds 175,000 gpd for 3 consecutive days (50% of rated capacity of the wells)	1. Daily water demand exceeds 212,000 gpd for 3 consecutive days (60% of rated capacity of the wells). 2. Water pressures in distribution system remain below 40 psi for more than 6 consecutive hours. 3. Failure of either well, coupled with demand over 75,000 gpd (75% of capacity of the small well).	1. Daily water demand exceeds 265,000 gpd for 3 consecutive days (75% of rated capacity of all wells) 2. Imminent failure of system component where immediate health or safety hazards exist. 3. Water pressures in distribution system continue to drop after implementing management steps.			1. Inform the public of situation through the media. 2. Notify major commercial water users of the situation and request voluntary water use reductions. 3. Publicize voluntary lawn watering schedule. 4. During the winter months request water users to insulate pipes rather than running water to prevent freezing.

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	SG	VAN ALSTYNE	GRAYSON	Stage is initiated when continually falling treated water reservoir levels which do not refill above 100% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	Stage is initiated when continually falling treated water reservoir levels which do not refill above 90% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	Stage is initiated when continually falling treated water reservoir levels which do not refill above 85% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	Stage is initiated when continually falling treated water reservoir levels which do not refill above 75% overnight or on such an occasion as a water well may be temporarily out of service or when water well pumping levels continue to decline.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. 3. One or more water wells are out of services. 4. One or more water wells are experiencing dangerously declining pumping levels.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Van Alstyne shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.
	SG	WHITESBORO	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	ALEDO	PARKER	***No Emergency/Drought Contingency Plan Submitted**					
	SG	HUDSON OAKS	PARKER	***No Emergency/Drought Contingency Plan Submitted**					
	SG	RENO	PARKER	***No Emergency/Drought Contingency Plan Submitted**					
	SG	SPRINGTOWN	PARKER	***No Emergency/Drought Contingency Plan Submitted**					
	GW	WILLOW PARK	PARKER	***No Emergency/Drought Contingency Plan Submitted**					
	SG-BENBROOK WSA	BENBROOK	TARRANT	Daily water use equals or exceeds 10.0 mgd for seven consecutive days.	Daily water use equals or exceeds 12.0 mgd (120% of treatment capacity) for five consecutive days; and/or water begins to drop below 35 psi in segments of the distribution system.	Daily water use equals or exceeds 15 mgd (150% of treatment capacity) for five consecutive days; and/or the storage capacity levels continually recede on a daily basis and remain below 50% of storage capacity for 72 consecutive hours, and the Water Authority Manager determines that such conditions are a hazard to the public health and safety. Failure of any system component which limits the treatment, storage, or distribution capabilities of the system.			Inform the customers. Citizens will be encouraged to restrict outside water use to specified time periods. Use an odd-even watering system.

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	SG	COLLEYVILLE	TARRANT	1. Average daily water use is approaching 14.4 mgd (80% of system design capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low pressure.	1. Average daily water use reaches system design capacity of 18.0 mgd for 3 consecutive days. 2. Net storage in elevated and ground storage reservoirs is continually decreasing on a daily basis and falls below 1.25 million gallons for a period of 72 hours. 3. Water pressures approach 40 psi in the distribution system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the water system design capacity of 18.0 mgd for 3 consecutive days. 3. The TRA (treated water supply) cannot, by virtue of their own water shortages, meet the demands of the City of Colleyville for furnishing the required supply per the contractual agreement between the 2 entities.			1. Inform the public of the conditions and encourage water users to reduce consumption. 2. Activate an info center. 3. Advise public of situation daily. 4. Advertise a voluntary daily lawn watering odd-even schedule between the hours of 10 pm until 4 am.
	SG	CROWLEY	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	DALWORTHINGTON GARDENS	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	EULESS	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	EVERMAN	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	HASLET	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	HURST	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	KELLER	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	KENNEDALE	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	LAKE WORTH	TARRANT	1. Annually, beginning on May 1 through September 30. 2. When the water supply available to the city is equal to or less than 1.4 MGD. 3. When notification from provider the City of Fort Worth is received to initate Stage 1 of the Plan. 4. The specific capacity of the city's wells is equal to or less than 95% of the well's original specific capacity. 5. The total daily demand equals or exceeds 1.2 MGD for three consecutive days or 1.4 MGD on a single day. 6. Continually falling ground and/or elevated storage levels which do not refill above 95% overnight.	1. When the water supply available to the city is equal to or less than 1.2 MGD. 2. When notification from provider the City of Fort Worth is received to initate Stage 2 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 85% of the well's original specific capacity. 4. The total daily demand equals or exceeds 1.4 MGD for three consecutive days or 1.6 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 85% overnight.	1. When the water supply available to the city is equal to or less than 1.1 MGD. 2. When notification from provider the City of Fort Worth is received to initate Stage 3 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 75% of the well's original specific capacity. 4. The total daily demand equals or exceeds 1.5 MGD for three consecutive days or 1.7 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 75% overnight.	1. When the water supply available to the city is equal to or less than 1.0 MGD. 2. When notification from provider the City of Fort Worth is received to initate Stage 4 of the Plan. 3. The specific capacity of the city's wells is equal to or less than 65% of the well's original specific capacity. 4. The total daily demand equals or exceeds 1.6 MGD for three consecutive days or 1.8 MGD on a single day. 5. Continually falling ground and/or elevated storage levels which do not refill above 65% overnight.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: The City will reduce the amount of water used for flushing fire hydrants, washing equipment, and watering parks or other grounds. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 2 am and 6 am and 9 pm and 12 am on designated days. 2. All operations of the City of Lake Worth shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.
	SG	NEWARK	TARRANT & WISE	***No Emergency/Drought Contingency Plan Submitted**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	SG	NORTH RICHLAND HILLS	TARRANT	Daily water demand exceeds 90% of production capacity of the system for 3 consecutive days or short term deficiencies in the distribution system limit supply capability.	Daily water demand exceeds 95% of the production capacity of the system for 2 consecutive days.	Daily water demand exceeds 95% of the production capacity of the system for five consecutive days.	Daily water demand exceeds 100% of the production capacity of the system for 2 consecutive days.		1. Request voluntary reductions in water use. 2. Activate an info center. 3. Staff will begin to review problems. 4. Notify major users and assist them to achieve voluntary use reduction. 5. Prohibit city use for street and vehicle washing, operation of ornamental fountains, and all other non-essential use. 6. Request no landscape watering between 10 am and 1 pm by the customer cities. 7. Request the City of Watauga to adhere to the same restrictions as NRH retail customers.
	SG	PANTEGO	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	PELICAN BAY	TARRANT	1. Average daily water consumption reaches 90% of rated production capacity for a three day period. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to b considered.	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. A ground storage tank at one of the pump stations is taken out of service during a period of mild water unavailability. 3. Storage capacity is not being maintained during period of 100% rated production. 4. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption will not allow the storage levels in the ground storage tanks or elevated tanks to be maintained. 2. System demand exceeds the high service pumping capacity. 3. Water system is contaminated. 4. Water system fails from acts of God or man. 5. One pump station is taken out of service during a period of heavy demand.			1. The Director of Public Works of the City will notify the local fire department of the status of the system and request notification of any fire event. 2. Designate a person for the City to manage the various stages of emergency water demand management. 3. Contact any large commercial or industrial users and discuss need for initiation of conservation methods. 3. Review system operational condition and capabilities. Complete any repairs to City facilities which effect the water systems production capability.
	SG	RICHLAND HILLS	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	SANSOM PARK VILLAGE	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SG	WHITESETTLEMENT	TARRANT	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).	1. A system failure resulting in the City becoming unable to deliver potable water at normal and sufficient volumes, such as main breaks, pump outages, or other failures. 2. Mandatory water rationing imposed by the Wholesale Water Supplier (The City of Fort Worth).			1. Inform the public that between May 1 and September 1 customers should look for ways to conserve water. 2. Advertise voluntary lawn watering schedule. 3. Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.
	SG	ALVORD	WISE	***No Emergency/Drought Contingency Plan Submitted**					
	SG	BOYD	WISE	***No Emergency/Drought Contingency Plan Submitted**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	SG	CHICO	WISE	1. When the total dailly water demand equals or exceeds 175,000 gallons for 5 consecutive days or 200,000 gallons for a single day. 2. Continually falling treated water reservoir levels which do not refill above 75% overnight based on an evaluation of minimum treated water storage required to avoid system outage.	1. When the total dailly water demand equals or exceeds 200,000 gallons for 5 consecutive days or 220,000 gallons for a single day.	1. When the total dailly water demand equals or exceeds 225,000 gallons for 5 consecutive days or 240,000 gallons for a single day.	1. When the total dailly water demand equals or exceeds 250,000 gallons for 5 consecutive days or 260,000 gallons for a single day.	1. Major water line breaks, or pump or system failures occur which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Supply Management Measures: No flushing of dead lines will be implemented by the City. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Chico shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.
	SG	RHOME	WISE	***No Emergency/Drought Contingency Plan Submitted**					
WOODBINE AQUIFER	SG	ANNA	COLLIN	***No Emergency/Drought Contingency Plan Submitted**					
	SG	BLUE RIDGE	COLLIN	***No Emergency/Drought Contingency Plan Submitted**					
	SG	CELINA	COLLIN	***Refer to the City of Celina in the Trinity Aquifer Section**					
	SG	MELISSA	COLLIN	***No Emergency/Drought Contingency Plan Submitted**					
	SG	PROSPER	COLLIN	System water production exceeds 400,000 gpd for 2 consecutive days or 360,000 gpd for 7 consecutive days.	System water production exceeds 460,000 gpd for 2 consecutive days or 400,000 gpd for 7 consecutive days.	System water production exceeds 520,000 gpd for 2 consecutive days or 440,000 gpd for 7 consecutive days.	Major power outage. Malfunction of major system component.		Contact major water users individually by telephone and post general public notice by radio and TV announcements asking customers to curtail outside water use.
	SG	CEDAR HILL	DALLAS & ELLIS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**					
	SG	GLENN HEIGHTS	DALLAS	***Refer to the City of Glenn Heights in Ray Hubbard/Tawakoni System**					
	SG	HUTCHINS	DALLAS	***No Emergency/Drought Contingency Plan Submitted**					
	SG	OVILLA	DALLAS & ELLIS	***Refer to the City of Ovilla in Ray Hubbard/Tawakoni System**					
	SG-HEBRON WSC	HEBRON	DENTON	***No Emergency/Drought Contingency Plan Submitted**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	SG	LITTLE ELM	DENTON	1. Average daily water consumption reaches 90% of water treatment plant capacity exists for 3 consecutive days. 2. Weather conditions are to be considered in determining severity of water unavailability. Predicted long, cold or hot, dry periods need to be considered in impact analysis.	1. Average daily water consumption reaches 100% of rated production capacity for 3 consecutive days. 2. Weather conditions indicate mild drought will exist 5 days or more. 3. One ground storage tank or one clearwell is taken out of service during a period of mild water unavailability. 4. Storage capacity is not being maintained during a period of 100% rated production. 5. Existence of any one listed condition for a duration of 36 hours.	1. Average daily water consumption reaches 110% of production capacity. 2. Average daily water consumption will not allow storage levels to be maintained. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in Moderate condition stage occur at the same time for 24-hour period. 5. Water system is contaminated either accidentally or intentionally. Severe condition is reached immediately upon detection. 6. Water system fails from acts of God or man. Severe condition is reached immediately upon detection.			Step 1- Inform the City Council and general public in a meeting of the City Council. Designate a Public Info. Official. Advise public of condition and encourage voluntary reductions in water use. Individually contact commercial and industrial users and discuss need and opportunities for initiation of conservation methods. Review system operation condition and capabilities. Implementation of system oversight and make adjustments to meet changing conditions.
	SG	NORTHLAKE	DENTON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	FERRIS	ELLIS	Daily water demand reaches or exceeds 80% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 90% of the production capacity of the system for 5 consecutive days.	Daily water demand reaches or exceeds 100% of the production capacity of the system for 5 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard.			1. Inform the public and encourage voluntary reductions in water use. 2. Notify major water users of the situation and encourage voluntary water conservation. 3. Publicize a voluntary lawn watering schedule. 4. During winter months request water users to insulate pipes rather than running water to prevent pipes from freezing.
	SG	ITALY	ELLIS	***Refer to the City of Italy in the Trinity Aquifer**					
	SG	MAYPEARL	ELLIS	***No Emergency/Drought Contingency Plan Submitted**					
	SG	MILFORD	ELLIS	***No Emergency/Drought Contingency Plan Submitted**					
	SG	PALMER	ELLIS	***No Emergency/Drought Contingency Plan Submitted**					
	SG	RED OAK	ELLIS	***No Emergency/Drought Contingency Plan Submitted**					
	SG	HONEY GROVE	FANNIN	***No Emergency/Drought Contingency Plan Submitted**					
	SG	LEONARD	FANNIN	Continually falling treated water reservoir levels do not refill to a 100% overnight.	Continually falling treated water reservoir levels do not refill to a 90% overnight.	Continually falling treated water reservoir levels do not refill to a 85% overnight.	Continually falling treated water reservoir levels do not refill to a 75% overnight.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the West Leonard WSC shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	SG	SAVOY	FANNIN	Total daily water demand exceeds 80% or .0884 mgd for 5 consecutive days.	***Remaining stages missing from handout**				Goal- Achieve a voluntary 5% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City of Gainesville shall adhere to water use restrictions prescribed for stage 2 of the plan. 3. Water customers are requested to practice water conservation
	SG	TRENTON	FANNIN	***No Emergency/Drought Contingency Plan Submitted**					
	SG	BELLS	GRAYSON	***Refer to the City of Bells in the Trinity Aquifer Section**					
	SG	DENISON	GRAYSON	Denison WTP has treated and distributed 10 mgd for 30 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	Denison WTP has treated and distributed 11 mgd for 10 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	Denison WTP has treated and distributed 12 mgd for 3 consecutive days, or when the demand for water exceeds the City's present ability to deliver water.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources. 3. Force majeure		Goal- Achieve a voluntary 10% -20% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the City of Denison shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.
	SG	GUNTER	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	HOWE	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG-LUELLA WSC	LUELLA	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	POTTSBORO	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	SHERMAN	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	SOUTHMAYD	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	TOM BEAN	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	VAN ALSTYNE	GRAYSON	***Refer to the City of Van Alstyne in the Trinity Aquifer Section**					
	SG	WHITEWRIGHT	GRAYSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	FROST	NAVARRO	***No Emergency/Drought Contingency Plan Submitted**					
HUBERT H MOSS LAKE	SS	GAINESVILLE	COOKE	***Refer to the City of Gainesville in the Trinity Aquifer Section**					
JOE POOL LAKE	TRA	CEDAR HILL	DALLAS & ELLIS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**					
	TRA	DUNCANVILLE	DALLAS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**					
	TRA	GRAND PRAIRIE	DALLAS	***Refer to the City of Cedar Hill in Ray Hubbard/Tawakoni System**					
	TRA	FERRIS	ELLIS	***Refer to the City of Ferris in the Woodbine Aquifer Section**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	TRA	MIDLOTHIAN	ELLIS	***Refer to the City of Midlothian in the Trinity Aquifer Section**					
	ROCKETT SUD	RED OAK	ELLIS	1. Average daily water use is approaching 4.7 mgd (90% of firm plant capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low water pressures.	1. Average daily water use reaches firm plant capacity of 4.8 mgd for 3 consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 2.0 million gallons (60% capacity) for 48 hours. 3. Water pressures approaching 35 psi in the distribution system as measured by the pressure gauges in the system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demands is exceeding the capacity of 5.2 mgd for three consecutive days. 3. All available water supply, such as the water wells, level is so low that the pumps cannot pump the daily water demand. 4. All water is being pumped from System's storage reservoirs and all replenishment of water reservoirs has stopped.			1. Inform the public and encourage voluntary reductions in water use. 2. Advise public daily of situation. 3. Enact Step 1 Curtailment: A. Prohibit water from landscape irrigation to escape into gutter, ditches, streets, etc. B. Failure to promptly repair a leak due to defective plumbing is prohibited. C. Prohibit recreational use D. Prohibit any other wasteful uses.
CEDAR CREEK/RICHLAND-CHAMBERS SYSTEM	FORT WORTH	GRAND PRAIRIE	DALLAS, ELLIS & TARRANT	Daily water demand reaches 80% of the production capacity of the system for 3 consecutive days.	Daily water demand reaches 90% of the production capacity of the system for 3 consecutive days.	Daily water demand reaches 100% of the production capacity of the system for 3 consecutive days; or the imminent or actual failure of a major component of the system is experienced which can cause an immediate health or safety hazard; or a significant reduction in the production capacity of the system is experienced.			1. Inform public by mail and through news media of situation and that customers should look for ways to reduce use. 2. Activate an information center and discuss situation with media. 3. Advise the public of situation daily. 4. Advertise a voluntary watering schedule.
	TRWD	MANSFIELD	ELLIS, JOHNSON & TARRANT	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands.	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.	TRWD's East Texas delivery system(Cedar Creek and Richland-Chambers pipelines) demands reach 90% of capacity for 3 consecutive days.	Demands exceed East Texas delivery system capacity for a 24 hour period.	Due to pipeline or equipment emergency, or contamination, the TRWD anticipates water deliveries to be adversely affected or otherwise disrupted.	1. Inform the District's Board members, and TRWD Advisory Committee Utility Directors of situation. 2. Request Fort Worth to reduce diversions from the TRWD West Fork Reservoirs. 3. Increase pumpage from the TRWD Eastern Division reservoirs.
	TRA/TRWD	MIDLOTHIAN	ELLIS	***Refer to the City of Midlothian in the Trinity Aquifer Section**					
	EAST CEDAR CREEK FWSD(TRWD)	GUN BARREL CITY	HENDERSON	Daily water demand consumption exceeds 80% of WTP capacity; or storage tank levels do not refill above 95% overnight.	Daily water demand consumption exceeds 85% of WTP capacity; or storage tank levels do not refill above 85% overnight.	Daily water demand consumption exceeds 90% of WTP capacity; or storage tank levels do not refill above 75% overnight.	Daily water demand consumption exceeds 95% of WTP capacity; or storage tank levels do not refill above 65% overnight.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am until 10 am and 8 pm until 12 am on designated days. 2. All operations of the East Cedar Creek Fresh Water Supply shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	TRWD	MABANK	HENDERSON & KAUFMAN	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**					
	EAST CEDAR CREEK FWSD(TRWD)	PAYNE SPRINGS	HENDERSON	***Refer to the City of Gun Barrel City in the Cedar Creek/Richland Chambers System**					
	WEST CEDAR CREEK MUD (TRWD)	SEVEN POINTS	HENDERSON	1. Average daily water use reaches 3,812,400 gpd (90% of firm line capacity) for three consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low water pressure.	1. Average daily water use reaches firm line capacity of 3.0 mgd for three consecutive days. 2. Net storage in water storage is continually decreasing on a daily basis and falls below 572,000 gallons (60% capacity) for 48 hours. 3. Water pressures reach 35 psi in the distribution system as measured by the pressure gauges in the system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the firm system capacity of 3.0 mgd for three consecutive days. 3. Available water supply, Cedar Creek Lake, level is so low that the pumps cannot pump the daily water demand. 4. All water is being pumped from System's storage reservoirs and all replenishment of water reservoirs has stopped.			Outdoor water use prohibited from 12 pm to 12 am on Fri., Sat., and Sun.
	WEST CEDAR CREEK MUD (TRWD)	TOOL	HENDERSON	***Refer to the City of Seven Points in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	BURLESON	JOHNSON & TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	TRWD	KEMP	KAUFMAN	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**					
	SS	CORSICANA	NAVARRO	***No Emergency/Drought Contingency Plan Submitted**					
	TRWD	ARLINGTON	TARRANT	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**					
	TRA	BEDFORD	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	TRWD	BENBROOK	TARRANT	***Refer to the City of Benbrook in the Trinity Aquifer Section**					
	TECON(TRWD)	BLUE MOUND	TARRANT	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**					
	TRA	COLLEYVILLE	TARRANT	1. Average daily water use is approaching 14.4 mgd (80% of system design capacity) for 3 consecutive days. 2. Consideration will be given to weather conditions, time of year, and customer complaints of low pressure.	1. Average daily water use reaches system design capacity of 18.0 mgd for 3 consecutive days. 2. Net storage in elevated and ground storage reservoirs is continually decreasing on a daily basis and falls below 1.25 million gallons for a period of 72 hours. 3. Water pressures approach 40 psi in the distribution system.	1. The imminent or actual failure of a major component of the system which would cause an immediate health or safety hazard. 2. Water demand is exceeding the water system design capacity of 18.0 mgd for 3 consecutive days. 3. The TRA (treated water supply) cannot, by virtue of their own water shortages, meet the demands of the City of Colleyville for furnishing the required supply per the contractual agreement between the 2 entities.			1. Inform the public of the conditions and encourage water users to reduce consumption. 2. Activate an info center. 3. Advise public of situation daily. 4. Advertise a voluntary daily lawn watering odd-even schedule between the hours of 10 pm until 4 am.
	FORT WORTH	CROWLEY	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	DALWORTHINGTON GARDENS	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	EDGECLIFF VILLAGE	TARRANT	***Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System**					
	TRA	EULESS	TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	FORT WORTH	EVERMAN	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	FOREST HILL	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	TRWD	FORT WORTH	TARRANT	Water storage in TRWD West Fork Reservoirs is projected to decline to less than 295,670 acre-ft (50% of capacity) within 2 weeks, based upon projected water demand and inflows; or water storage in the TRWD reservoirs has declined to 1,426,752 acre-ft (60% of capacity); or demand for Fort Worth or TRWD exceeds 90% of deliverable capacity for 3 consecutive days; or water demands approach a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	TRWD demands exceed East Texas delivery system capacity for a 24-hr period; or water storage in TRWD reservoirs has declined to 50% of capacity; or demand exceeds 95% of deliverable capacity for 2 consecutive days; or water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	Water storage in TRWD reservoirs has declined to 25% of capacity; or demand exceeds 95% of deliverable capacity for 5 consecutive days; or water demand exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	Water Storage in TRWD reservoirs has declined to 20% of capacity; or demand exceeds 100% of deliverable capacity for 2 consecutive days; or water demand seriously exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.		1. City Manager or designee requests voluntary reductions is use. 2. Accelerate public information efforts. 3. Staff begins to review problems. 4. Notify major water users and assist them to achieve voluntary use reduction. 5. Prohibit city government use for street and vehicle washing, operation of ornamental fountains, and all other non-essential use. 6. Request a reduction in landscape watering by city government. 7. No landscape watering between 10 am and 7 pm. 8. Determine effect on wholesale customers and notify them of impact. Advise them to start drought procedures.
	TRA	GRAPEVINE	TARRANT	1. Surface water demand reaches (90% of pumping capacity- City of Grapevine/TRA WTPS)(Design 18.77 mgd), Peak 19.67 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 90% of the reduced pumping capacity.	1. Surface water demand reaches (95% of pumping capacity- City of Grapevine/TRA WTPS)(Design 19.82 mgd), Peak 20.77 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surface water demand of the system is 100% of the reduced pumping capacity.	1. Surface water demand reaches (7 day period) (100% of pumping capacity- City of Grapevine/TRA WTPS)(Design 20.86 mgd), Peak 21.86 mgd. 2. Production at the combined City of Grapevine and TRA surface WTP reduced to a point such that the aggregate surrface water demand of the system exceeds the reduced production, including a complete failure of the plant to produce any water.	1. Catastrophic failure of a critical component of the treatment, delivery or distribution system that would limit water available to meet demand.		1. Inform public through news media of situation and that customers should look for ways to reduce use. 2. Notify major commercial user of situation and encourage conservation. 3. Publicize a voluntary watering five-day rotational schedule. 4. Car, window and pavement washing are prohibited, unless done with bucket. 5. Landscape watering can occur between 6-10 am with portable sprinklers and 12-7am with a permanent automatic sprinkler system. Golf courses are allowed to water greens and tee-boxes on designated days between 12 am and 12 pm and 7 pm to 12 am. The irrigation of fairways is prohibited. 6. Prohibited public uses include: street washing, water hydrant flushing, filling of pools, athletic field watering.
	FORT WORTH	HURST	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	KELLER	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH/TRA	NORTH RICHLAND HILLS	TARRANT	***Refer to the City of North Richland Hills in the Trinity Aquifer**					
	FORT WORTH	RICHLAND HILLS	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	WATAUGA	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
LAKE GRAPEVINE	SS	GRAPEVINE	DALLAS & TARRANT	***Refer to the City of Grapevine in the Cedar Creek/Richland Chambers System**					
	PARK CITIES MUD	HIGHLAND PARK	DALLAS	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 527 feet MSL.	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 525 feet MSL.	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 520 feet MSL.	Notification by the DCPCMUD of water shortage possibility with lake levels approaching 515 feet MSL.		1. Designated official will request reduction in use for all municipal operations. 2. Public info will be accelerated to encourage reduced water use. 3. Major users will be notified and asked to reduce use voluntarily. 4. Staff will begin to review problems.
	PARK CITIES MUD	UNIVERSITY PARK	DALLAS	***Refer to the City of Highland Park**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
LAKE RAY ROBERTS	UTRWD(DENTON)	CORINTH	DENTON	***Refer to the City of Argyle in the Elm Fork/Lake Grapevine System**					
	SS	DENTON	DENTON	***Refer to the City of Denton in the Elm Fork/Lake Grapevine System**					
	UTRWD(DENTON)	HIGHLAND VILLAGE	DENTON	***Refer to the City of Argyle in the Elm Fork/Lake Grapevine System**					
	UTRWD(DENTON)	SANGER	DENTON	***Refer to the City of Argyle in the Elm Fork/Lake Grapevine System**					
LAKE LEWISVILLE	SS	DENTON	DENTON	***Refer to the City of Denton in the Elm Fork/Lake Grapevine System**					
WEST FORK LESS BRIDGEPORT LOCAL	FORT WORTH	NORTHLAKE	DENTON	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	TROPHY CLUB #1	ROANOKE	DENTON	***Refer to the City of Trophy Club in the Trinity Aquifer Section**					
	FORT WORTH	SOUTHLAKE	DENTON & TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	TROPHY CLUB #1	TROPHY CLUB	DENTON	***Refer to the City of Trophy Club in the Trinity Aquifer Section**					
	TRWD	AZLE	PARKER & TARRANT	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**					
	COMMUNITY WSC	BRAIR	PARKER & TARRANT	***No Emergency/Drought Contingency Plan Submitted**					
	SPRINGTOWN	RENO	PARKER	***No Emergency/Drought Contingency Plan Submitted**					
	TRWD	SPRINGTOWN	PARKER	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**					
	TRWD	FORT WORTH	TARRANT	***Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	HALTOM CITY	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	HASLET	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	KELLER	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	LAKE WORTH	TARRANT	***Refer to the City of Lake Worth in the Trinity Aquifer Section**					
	TRWD	RIVER OAKS	TARRANT	1. Water storage in TRWD West Fork reservoirs is projected to decline to less than 295,670 acre-feet(50% of capacity) within 2 weeks. 2. Water storage in the TRWD reservoirs has declined to 1,426,752 acre-feet(60% of capacity) 3. Demand for River Oaks or TRWD exceeds 90% of deliverable capacity for 3 consecutive days. 4. Water demand approaches a reduced delivery capacity for all or part of the system due to supply or production limitations including contamination of the system.	1. TRWD demands exceed East Texas delivery system capacity for a 24-hour period. 2. Water storage in TRWD reservoirs has declined to 50% of capacity. 3. Demand exceeds 95% of deliverable capacity for 2 consecutive days. 4. Water demand equals a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	1. Water storage in TRWD reservoirs has declined to 25% of capacity. 2. Demand exceeds 95% of deliverable capacity for 5 consecutive days. 3. Water demand exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.	1. Water storage in TRWD reservoirs has declined to 20% of capacity. 2. Demand exceeds 100% of deliverable capacity for 2 consecutive days. 3. Water demand seriously exceeds a reduced delivery capacity for all or part of the system due to supply or production capacity limitations including contamination of the system.		1. Water customers requested to voluntarily practice water conservation. 2. Accelerate public info efforts. 3. Staff will begin to review problems. 4. Notify major water users and request voluntary water use reduction. 5. Prohibit city government use of water for street washing, vehicle washing, operation of ornamental fountains and all other non-essential use. 6. Request voluntary reduction in landscape watering by city government. 7. Request voluntary limitation in landscape watering between 10am and 7pm.
	FORT WORTH	SAGINAW	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	SANSOM PARK VILLAGE	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	WESTWORTH VILLAGE	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					
	FORT WORTH	WHITE SETTLEMENT	TARRANT	***Refer to the City of Grand Prairie in the Cedar Creek/Richland Chambers System**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
LAKE BARDWELL	TRA	ENNIS	ELLIS	The water supply available from Lake Bardwell is equal to or less than 26,778 acre-feet, the lake elevation is at 415 -420 feet MSL the normal lake storage is at 55% or the daily potable water supply system demand is at 85+% capacity.	The water supply available from Lake Bardwell is equal to or less than 22,064 acre-feet, the lake elevation is at 413 -414 feet MSL the normal lake storage is at 50% or the daily potable water supply system demand is at 90+% capacity.	The water supply available from Lake Bardwell is equal to or less than 16,111 acre-feet, the lake elevation is at 410 -412 feet MSL the normal lake storage is at 35% or the daily potable water supply system demand is at 95+% capacity.	The water supply available from Lake Bardwell is equal to or less than 10,080 acre-feet, the lake elevation is at 406 -409 feet MSL the normal lake storage is at 20% or the daily potable water supply system demand is at 98+% capacity.		Voluntary reductions will be encouraged, increased public information.
	ELLIS COUNTY WCID #1	WAXAHACHIE	ELLIS	Monitor weather conditions, activate Lake Bardwell Pump Station at elevation 529 feet.	Lake elevation drops to 527 feet.	Lake elevation drops to 524 feet.	Lake elevation drops to 520 feet.	Lake elevation drops to 517.5 feet.	
LAKE CLARK	TRA	ENNIS	ELLIS	***Refer to the City of Ennis in the Lake Bardwell Section**					
OTHER AQUIFER	FILES VALLEY WC-PG	MILFORD	ELLIS	***No Emergency/Drought Contingency Plan Submitted**					
	PG	PECAN HILL	ELLIS	***No Emergency/Drought Contingency Plan Submitted**					
	SG	ANNETTA	PARKER	***No Emergency/Drought Contingency Plan Submitted**					
	PG	AURORA	WISE	***No Emergency/Drought Contingency Plan Submitted**					
LAKE WAXAHACHIE	ELLIS COUNTY WCID #1	WAXAHACHIE	ELLIS	***Refer to the City of Waxahachie in the Lake Bardwell Section**					
REUSE	TRA	WAXAHACHIE	ELLIS	***Refer to the City of Waxahachie in the Lake Bardwell Section**					
CARRIZO-WILCOX AQUIFER	SG	FAIRFIELD	FREESTONE	***No Emergency/Drought Contingency Plan Submitted**					
	SG	TEAGUE	FREESTONE	***No Emergency/Drought Contingency Plan Submitted**					
	SG	ATHENS	HENDERSON	Daily usage exceeds 4.5 mgd.	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 80% overnight.	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 65% overnight.	Daily usage exceeds 4.5 mgd and the storage facilities do not refill above 50% overnight.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 10% reduction in daily water demand. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to even number days for even number address and odd number days for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.
	SG	EUSTACE	HENDERSON	***No Emergency/Drought Contingency Plan Submitted**					
	SG	MALAKOFF	HENDERSON	***No Emergency/Drought Contingency Plan Submitted**					
TEAGUE CITY LAKE	SS	TEAGUE	FREESTONE	***No Emergency/Drought Contingency Plan Submitted**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
WORTHAM LAKE	SS	WORTHAM	FREESTONE	1. Average daily water consumption reaches 90% of plant capacity for 3 consecutive days. 2. Water level in Lake Wortham drops below 85% of full capacity.	1. Average daily water consumption reaches 100% of plant capacity for 3 consecutive days. 2. Water level in Lake Wortham drops below 65% of full capacity. 3. City of Mexia water supply is in time of drought, and requiring storage tank near Mexia to be filled at a specified time.	1. Failure of elevated storage tank or other major system component which reduce the availability of water to less than 50% of the average daily usage or causes health or safety hazard. 2. Water level in Lake Wortham drops below 50% of full capacity. 3. Water supply from City of Mexia is out of service.			1. Inform public through news media of situation and that customers should look for ways to reduce use. 2. Activate an information center and discuss situation with media. 3. Implement odd/even voluntary watering schedule between the hours of 6-8 am and 8-10 pm.
LAKE TEXOMA	COE STORAGE	DENISON	GRAYSON	***Refer to the City of Denison in the Woodbine Aquifer Section**					
	GTUA	SHERMAN	GRAYSON	1. Water demand has reached 2 times average daily use for 10 consecutive days. 2. Water levels are low enough to disrupt beneficial recreation activities. 3. Water levels are low enough that the supply situation may become critical if the drought conditions continue.	1. Water demand has reached 2 times average daily consumption for 15 consecutive days. 2. Above ground water storage is depleted significantly during periods of peak consumption. 3. Water levels have reached the second impact level beyond which operational problems will occur.	1. Imminent or actual failure of a major component of the system has occurred which will cause immediate health or safety hazard. 2. Above ground storage cannot be replenished during off-peak periods. 3. Wells are producing at 2 times average daily consumption for a period of 20 consecutive days. 4. Water demand exceeds the system's capacity on a regular basis, presenting the imminent danger of a major system failure.			1. Inform the public and encourage voluntary conservation. 2. Activate info center. 3. Advise public daily. 4. Advertise a voluntary daily lawn watering schedule.
LAKE RANDELL	SS	DENISON	GRAYSON	***Refer to the City of Denison in the Woodbine Aquifer Section**					
	DENISON	POTTSBORO	GRAYSON	***Refer to the City of Denison in the Woodbine Aquifer Section**					
LAKE ATHENS	ATHENS MWA	ATHENS	HENDERSON	***Refer to the City of Athens in the Carrizo-Wilcox Aquifer Section**					
TRINIDAD CITY LAKE	SS	TRINIDAD	HENDERSON	The water supply available to the City of Trinidad is equal to or less than 230 acre-feet.	The water supply available to the City of Trinidad is equal to or less than 155 acre-feet.	The water supply available to the City of Trinidad is equal to or less than 75 acre-feet.	The water supply available to the City of Trinidad is equal to or less than 50 acre-feet.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources.	Goal- Achieve a voluntary 10% reduction in total water use. Supply Management Measures: Reduce or discontinue flushing of water mains. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape irrigation to Sun. and Thurs. for even addresses and Sat. and Wed. for odd addresses and watering should occur between 12am until 10am and 8pm until 12am. 2. All operations of the City of Trinidad shall adhere to use restrictions prescribed in stage 2. 3. Water customers are requested to practice water conservation and to minimize or discontinue non-essential use.

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
LAKE BRYSON	SS	BRYSON	JACK	When the reservior level reaches the 50% level.	When the reservior level reaches the 40% level.	When the reservior level reaches the 30% level.	When the reservior level reaches the 15% level.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of the water supply sources. - Stage 6 - Water Allocation- When the reservior reaches the 15% level or treatment capabilities drop below 25%.	Goal- Achieve a voluntary 5% reduction in daily demand. Supply Management Measures: Educate public on water conservation. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape irrigation to Sun. and Thurs. for even addresses and Sat. and Wed. for odd addresses and watering should occur between 12am until 10am and 8pm until 12am. 2. All operations of the City of Bryson shall adhere to use restrictions prescribed in stage 2. 3. Water customers are requested to practice water conservation and to minimize or discontinue non-essential use.
LOST CREEK/JACKSBORO SYSTEM	SS	JACKSBORO	JACK	1. Treatment plant production exceeds 0.9 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.8 mgd. 3. The lake level in Lake Jacksboro reaches an elevation of 1006 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1400 acre-feet (after first fill of Lost Creek Reservoir).	1. Treatment plant production exceeds 1.0 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.6 mgd during October through May or 0.8 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1005 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1200 acre-feet (after first fill of Lost Creek Reservoir).	1. Treatment plant production exceeds 1.1 mgd for 3 consecutive days. 2. A major component of the treatment plant or distribution system fails, limiting the capacity of the facilities to 0.4 mgd during October through May or 0.6 mgd June through September. 3. The lake level in Lake Jacksboro reaches an elevation of 1004 MSL (before Lost Creek Reservoir is built). 4. The combined storage in Lake Jacksboro and Lost Creek Reservoir reaches 1000 acre-feet (after first fill of Lost Creek Reservoir).			1. Inform the public through news media of situation. 2. Indicate appropriate measures through media. 3. Request voluntary reduction in water usage by limiting lawn watering to once every 5 days. 4. Request limiting car washing to once a week. 5. Request reduction in indoor by 10%
BRIDGEPORT LOCAL	TRWD	JACKSBORO	JACK	***Refer to the City of Jacksboro in the Lost Creek/Jacksboro System**					
	TRWD	FORT WORTH	TARRANT	***Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
	TRWD	BRIDGEPORT	WISE	1. Average daily water consumption reaches 90% of production capacity for 3 consecutive days. 2. Weather conditions are to be considered in drought classification determination. Predicted long, cold or dry periods are to be considered in impact analysis.	1. Average daily water consumption reaches 100% of rated production capacity for a 3 day period. 2. Weather conditions indicate mild drought will exist five days or more. 3. The clear well or elevated tanks are taken out of service during mild drought period. 4. Storage capacity is not being maintained during a period of 100% rated production periods for a duration of 36 hours. 5. Water main breaks occur on the major 12-inch lines and cannot be repaired with in 12-hours.	1. Average daily water consumption reaches 110% of production capacity. 2. Average daily water consumption will not enable storage levels to maintained. 3. System demand exceeds available high service pump capacity. 4. Any two conditions listed in moderate drought classification occurs at the same time for a 24-hour period. 5. Water system is contaminated either accidentally or intentionally. Severe condition is reached immediately detection. 6. Water system fails from acts of God or man. Severe conditions is reached immediately upon detection.			1. Develop info center and designate info person. 2. Advise public of condition. 3. Encourage voluntary reductions. 4. Contact commercial and industrial users and encourage conservation. 5. Implement system oversight and make adjustments as required to meet changing conditions.
	WEST WISE WSC	CHICO	WISE	***Refer to the City of Chico in the Trinity Aquifer Section**					
	WISE CO WSD	DECATUR	WISE	When water pressures leaving the water plant drops to 100 psi or total water demand equals or exceeds 600,000 gallons for 3 consecutive days.	When water pressures leaving the water plant drops to 98 psi or total water demand equals or exceeds 650,000 gallons for 3 consecutive days.	When water pressures leaving the water plant drops to 96 psi or total water demand equals or exceeds 750,000 gallons for 3 consecutive days.	When water pressures leaving the water plant drops to 94 psi or total water demand equals or exceeds 850,000 gallons for 3 consecutive days.	1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service. 2. Natural or man-made contamination of water supply sources.	Goal- Achieve a voluntary 2% reduction in total use and a 2% increase in pressure. Demand Management Measures: Contact wholesale customers and request voluntary measures to reduce use; General Manager will provide weekly reports to media.
LAKE TAWAKONI	SS	TERRELL	KAUFMAN	Water in storage in the New Terrell City Lake is equal to or less than ___(acre-feet and/or percentage of storage capacity).	When the water supply available to the City of Terrell is equal to or less than ____(acre-feet, percentage of storage, etc.).	When total daily water demand equals or exceeds ___ percent of the safe operating capacity of ___ million gallons per day for ___ consecutive days or ____percent on a single day.	When total daily demand equals or exceeds ____ million gallons for ____ consecutive days of ___ million gallons on a single day (e.g., based on the "safe" operating capacity of water supply facilities).	Continually falling treated water reservoir levels do not refill above ___ percent overnight (e.g., based on an evaluation of minimum treated water storage required to avoid system outage).	Goal- Achieve a voluntary --% reduction in --. Voluntary Water Use Restrictions: 1. Water customers are requested to voluntarily limit landscape watering to Sundays and Thurs. for even number address and Sat. and Wed. for odd number addresses and watering should only occur between 12 am and 10 am and 8 pm and 12 am on designated days. 2. All operations of the City shall adhere to water use restrictions of stage 2. 3. Water customers are requested to practice water conservation and minimize or discontinue non-essential use.
LAKE TERRELL	SS	TERRELL	KAUFMAN	***Refer to the City of Terrell in the Lake Tawakoni Section**					
NAVARRO MILLS RESERVOIR	CORSICANA (TRA)	BLOOMING GROVE	NAVARRO	WSE declines to below 422.5 feet.	WSE declines to below 421.5 feet.	WSE declines to below 419.0 feet.	WSE declines to below 414.5 feet.	WSE declines to below 388.0 feet.	Authority will notify wholesale customers and encourage voluntary reduction.
	TRA	CORSICANA	NAVARRO	***Refer to the City of Blooming Grove**					
	CORSICANA (TRA)	DAWSON	NAVARRO	***Refer to the City of Blooming Grove**					
	CORSICANA (TRA)	FROST	NAVARRO	***Refer to the City of Blooming Grove**					
	CORSICANA (TRA)	KERENS	NAVARRO	***Refer to the City of Blooming Grove**					
	CORSICANA (TRA)	RICE	NAVARRO	***Refer to the City of Blooming Grove**					
LAKE HALBERT	SS	CORSICANA	NAVARRO	***No Emergency/Drought Contingency Plan Submitted**					
LAKE MINERAL WELLS	SS	MINERAL WELLS	PARKER	***No Emergency/Drought Contingency Plan Submitted**					

SOURCE	SUPPLIER	USERS		POSSIBLE TRIGGERS					
				STAGES					
		CITY	COUNTY	1	2	3	4	5	1
LAKE PALO PINTO	SS	MINERAL WELLS	PARKER	***No Emergency/Drought Contingency Plan Submitted**					
LAKE WEATHERFORD	SS	WEATHERFORD	PARKER	***No Emergency/Drought Contingency Plan Submitted**					
LAKE BENBROOK	TRWD	WEATHERFORD	PARKER	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands.	TRWD's actual monthly demands are greater than 25% above anticipated monthly system demands for two consecutive months.	TRWD's East Texas delivery system(Cedar Creek and Richland-Chambers pipelines) demands reach 90% of capacity for 3 consecutive days.	Demands exceed East Texas delivery system capacity for a 24 hour period.	Due to pipeline or equipment emergency, or contamination, the TRWD anticipates water deliveries to be adversely affected or otherwise disrupted.	1. Inform the District's Board members, and TRWD Advisory Committee Utility Directors of situation. 2. Request Fort Worth to reduce diversions from the TRWD West Fork Reservoirs. 3. Increase pumpage from the TRWD Eastern Division reservoirs.
	TRWD	BENBROOK	TARRANT	***Refer to the City of Benbrook in the Trinity Aquifer**					
	TRWD	FORT WORTH	TARRANT	***Refer to the City of Fort Worth in the Cedar Creek/Richland Chambers System**					
LAKE ARLINGTON	TRWD	ARLINGTON	TARRANT	***Refer to the City of Mansfield in the Cedar Creek/Richland Chambers System**					

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Municipal Gov- 50% reduction in non-essential use, landscape uses except for parks and golf courses restricted to watering schedule or off peak hrs. **Residential Actions**- Voluntary- landscape restricted to watering schedule or off peak hrs. Reduced freq. in watering new landscaping. Mandatory- Prohibit excess runoff. **Commercial Actions**- Initial fillings only for fountains; prohibit hosing off of paved areas; limit excessive run-off **Industrial Actions**- Prohibit hosing off of paved areas; limit excessive runoff	**Municipal Gov**- Prohibit non-essential use, landscape uses restricted to watering schedule or off peak hrs. Golf course green & tee box watering restricted to off-peak hours. **Residential Actions**- landscape restricted to watering schedule or off peak hrs. Prohibit draining/filling of pools, permitting of pools, and excess runoff. High vol. users subject to 10% rate increase **Commercial Actions**- landscape restricted to watering schedule or off peak hours, reduce excess runoff, and watering of nursery stock restricted to off-peak hrs. **Industrial Actions**- landscape restricted to watering schedule or off peak hours, reduce the frequency of car washing & excess runoff.	**Municipal Gov**- Prohibit landscape watering. Golf course green & tee box watering restricted to off-peak hours. **Residential Actions**- Prohibit landscape watering and vehicle washing; foundations may be watered for 2 hrs. with a soaker or hand held hose during water schedule or off-peak times; 25% reduction indoor use. **Commercial Actions**- Prohibit landscape watering and vehicle washing **Industrial Actions**- Prohibit landscape watering and vehicle washing; 25% reduction in indoor water use	
Begin mandatory water use restrictions as follows: prohibit using water in such a manner as to allow runoff or other water wastes; limit outside watering to the five day schedule provided by the city.	Implement recommended engineering alternatives. Continue actions of the previous stages, but watering is only allowed between 9 pm and 9 am.	Prohibit all commercial and residential landscape watering including golf courses with the following exceptions: nurseries can water stock per watering schedule, public gardens may be watered per schedule, foundations may be watered for 2 hrs with soaker hose and hand held hose per watering schedule, washing of vehicles is prohibited, all commercial users may be required to reduce consumption.	
Level 1- Implementation of the mandatory odd/even watering schedule provided by the City of Carrolton with no watering on Sunday. Level 2- Same restrictions as level 1, but customers are prohibited from watering 5-9am and 4-7pm.	Level 1- Implementation of the mandatory odd/even watering schedule provided by the City of Carrolton with no watering on Sat., Sun., or Wed. Level 2- Same restrictions as level 1, but customers are prohibited from watering 5-9am and 4-7pm.	Prohibit all outdoor water use until situation has improved.	
Goal- Reduce the average daily water demand below a 100% of the contracted rate with DWU. 1. Landscape watering is limited by watering schedule per city. 2. Vehicle washing is prohibited, but is allowed following the landscape watering schedule. 3. Filling of pools is prohibited, except for newly repaired or constructed pools. 4. No ornamental fountains or ponds may be operated(except were needed to support aquatic life). 5. Use of hydrants is limited to fire fighting or activities related to public health, safety and welfare(construction purposes may be allowed with a permit from IWU). 6. Golf Courses can water greens and tee boxes w/o restrictions, but fairways must follow watering schedule. 7. Limit non-essential use of water.	Goal- Reduce the average daily water use below 100% of the contracted rate with DWU. 1. Landscape watering and residential carwashing is prohibited between the hours of 7 am and 7 pm, and is limited to the watering schedule per city.(foundation and new plantings may be watered for 2 hours using a hose and watering schedule) 2. Nurseries may water stock only between the hours of 7 am and 7 pm. 3. Public gardens are prohibited from watering between 7 am and 7 pm. 4. Golf courses are prohibited from watering greens and tee boxes from 7am to 7 pm, and fairway watering must comply with watering schedule.	Goal- Reduce the average daily water demand below a 100% of the contracted rate with DWU. 1. All landscape watering is prohibited (except for nurseries may water stock using stage 3 criteria, and foundations may be watered using stage 3 provisions.) 2. The use of water for construction purposes under special permit is prohibited. 3. The use of water to wash vehicles is prohibited. 4. Filling of pools is prohibited. 5. No ornamental fountains or ponds may be operated(except were needed to support aquatic life).	Goal- Restrict water usage to allow system to recover from emergency condition. 1. The director is to determine the actions to take in this stage.

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
District designated person will keep participants informed of current measures in effect. District will request participant's to request all customers with meters larger than one inch to reduce consumption by 15%.	Deliveries of water to participants facilities will be controlled to the extent determined by the District designated person to restore overall system to a safe performance level. At participant's request, District will assist participants in eliminating all non-essential water uses. District will eliminate all non-essential uses such as truck washing and lawn watering.		
Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Same as stage 1, and reduce or discontinue irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing of gutters, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Same as stage 2. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Aubrey. 3. The use of water from fire hydrants for construction purposes under special permit is discontinued.	Goal- Achieve a 40% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
The Corporation may limit water usage determined by the plants capability. A flow restrictor will be installed at member's expense. The maximum number of gallons per meter per month shall be contained in the notice to each member.	All outdoor water usage is prohibited; however, usage for livestock is exempt.	All outdoor water usage is prohibited; livestock may be exempted by the Corporation. All consumption will be limited by: 1. A fixed percentage of each member's average use in the prior month. 2. A maximum number of gallons per meter per week.	

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Goal 10-20% reduction: The situation calls for an internal restriction on outdoor water use (a five day watering schedule). The public is encouraged to conserve water on a voluntary basis and use all water efficiently. Wholesalers are asked to modify restrictions to meet City of Denton criteria.	Goal 20-30% reduction: The situation calls for mandatory external and internal restrictions to protect public health and safety. Impose 20% surcharge penalty for residential customers water use above 30,000 gallons per meter connection per 30-day period. Impose a 20% surcharge penalty for commercial and industrial customers for monthly water use above 80% of prior billing volumes for a 30-day period. Rate of flow restrictions also apply to wholesale customers.	Goal 30% or greater reduction: The situation is critical an it is necessary to ban all outside watering. Impose 20% surcharge penalty for residential customers water use above 15,000 gallons per meter connection per 30-day period. Impose a 20% surcharge penalty for commercial and industrial customers for monthly water use above 70% of prior billing volumes for a 30-day period. Restrictions also apply to wholesale suppliers.	
1. All conditions of previous stage still in effect. 2. Contact all customers with meters larger than one inch to reduce water consumption by 15%.	1. All conditions of previous stage still in effect. 2. The General Manager shall notify the local T.V., local newspaper, and police of each of the customer cities as to the status of the water system. 3. Customers will be notified by telephone and with written notice hand delivered to each customer within 24 hours of the condition. 4. The Authority will eliminate all non-essential uses such as car washes and lawn watering.		
1. Outdoor residential water use is permitted, but must follow a schedule made by the City. 2. Commercial and industrial use will be visited to ensure volunteered conservation has been initiated. 3. Limit use for washing vehicles, etc. 4. Limit use on construction projects to essential water use only. 5. Increase education effort	1. Outdoor watering is only permitted by the City's schedule and during off-peak hours. 2. Prohibit public water uses which are not essential for health, safety and sanitary purposes. 3. Commercial and industrial uses will be controlled to the extent dictate by the City Manager.	1. Prohibit landscape watering. 2. Prohibit washing vehicles, etc. 3. Prohibit use on construction projects. 4. Impose a $.20/1000 gallons increase on all service billings. 5. Increased education efforts.	

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
1. Initiate studies to address solutions to problems. 2. Announce mandatory water reductions including the following are prohibited: hosing off paved areas and buildings; pool draining followed by refilling; washing vehicles by hose; and other non-essential uses as determined by General Manager. Construction water use limited to non-peak hrs. 10 pm to 4 am. Odd-even watering at businesses and residences based on address. Public gardens & golf courses placed on watering schedule. Watering is allowed at anytime(on specified days) if done using a hand-held hose, a bucket or a drip irrigation system.	1. Implement appropriate solutions to supply or distribution problems. 2. Continued implementation of all restrictions from previous stages. Exceptions: Commercial car washing is prohibited between 2 pm and 9 pm each day and landscape watering will be allowed once every five days according to watering schedule provided.		
1. Continue all relevant actions initiated in the preceding phase. 2. Residential car washing, window washing and pavement washing will be prohibited unless done with a bucket. 3. Street washing, water hydrant flushing, filling swimming pools, and athletic field watering are prohibited uses of public water. 4. A mandatory lawn watering schedule shall be imposed. Watering shall be only permitted during the hours of 6 am and 10 am and 8 pm and 10 pm.	1. Continue the previous phases actions. 2. All outdoor water not essential for public health or safety, shall be prohibited. 3. Establish maximum water use limits for commercial and residential users, and establish monetary fines or surcharges to be levied for exceeding water use limits.		
Goal-15 to 18% reduction 1. Continued implementation of stage 1 actions. 2. Formal public notification of a water shortage and encourage voluntary water use curtailment.	Goal- 25 to 30% reduction 1. Continued implementation of relevant actions from previous stages. 2. Car, window, and pavement washing are prohibited unless done with using a bucket. 3. Lawn and garden irrigation restricted to watering schedule between 6 am and 10 am and 8 pm and 10 pm. using only hand held hoses for application. 4. Street washing, fire hydrant flushing, filling of swimming pools and golf course watering are prohibited uses of public water. 5. Prohibit use of water-cooled air conditioners without recirculation.	Goal- 50% or more reduction 1. Continued actions of previous stages. 2. Lawn watering, non-commercial washing of vehicles; street, driveway, and sidewalk washing; and ornamental water use for fountains, artificail waterfalls and reflecting pools are all prohibited non-essential outdoor uses. 3. Implement drought surcharge. 4. Reduce system pressures to minimum levels permissible(35 psi). 5. Ration water or terminate service in the following order: Industrial, Commercial, Residential, Public Health and Safety Facilities.	1. Formal public notification that the measures taken in response to the drought or emergency conditions can be terminated.

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
1. Inform public of conditions and measures. 2. Prohibit and/or limit private washing of vehicles, windows, siding, pavements, and other non-essential water uses outside the home. 3. Restrict residential irrigation to one day a week and implement the City's watering schedule. 4. Institute system of monitoring and/or enforcing violations of above measures. 5. Prosecute violators of actions 2 and 3 above.	1. Prohibit and/or limit all non-essential water outside the residence, and establish times when watering may be permitted. 2. Ensure that high water use industries are conserving as much as possible. 3. Prohibit any public water use which is not essential for public health. 4. Prosecute violators. 5. Limit the amount of water that may be used for any purpose and prescribe a time when it can be used. 6. Discontinue water service to repeat or severe violators of the above provisions.		
1. Establish pro rata allocations for all users using billing records. 2. Water users will be advised to continue the actions of the previous stage and implement the next stage.	1. Water users will be advised to continue the actions of the previous stages and implement the next stage. 2. The uniform percentage of water supplied may be reduced further by the Board of Directors.		
1. Landscape watering with sprinklers is limited to watering schedule, but watering done with a hand held hose, bucket, or by drip irrigation is permitted at all times. 2. Washing of vehicles is prohibited except on watering days or at commercial car washes. 3. Filling of pools is prohibited unless it is on a watering day. 4. Operation of ponds or fountains is prohibited unless they are necessary to support aquatic life. 5. The use of water from hydrants is prohibited unless it is for fighting fires or public health, safety, and welfare. 6. Irrigation of golf courses is prohibited except on designated watering days. 7. All restaurants are prohibited from serving water to patrons unless requested. 8. The use of water to wash down paved or hard surfaces are prohibited. 9. No washing down of structures. 10. Water can not be used for dust control. 11. The use water to flush gutter is permitted. 12. It is an offense to refuse to repair a leak once notified of it.	1. The irrigation of landscaped areas is prohibited except on designated watering days and only by means of hand-held hoses, hand-held buckets, drip irrigation, or permanently installed sprinklers. The use of hose-end sprinklers is prohibited. 2. The use of water to irrigate golf courses is prohibited, unless the golf course uses non-potable water. 3. The use of water from fire hydrants for construction purposes is prohibited.	1. The irrigation of landscaped areas is prohibited except on designated watering days and only by means of hand-held hoses, hand-held buckets, drip irrigation. The use of permanently installed sprinklers is prohibited. 2. Car washes are prohibited, except at commercial car washes between the hours 6 am until 10 am and 6 pm until 10pm. 3. The use of water to fill, refill, or add water to any indoor or outdoor swimming pool, wading pool, hot tub or spa-type pool is prohibited. 4. No application for new, additional, expanded, or increased capacity water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind will be allowed or approved.	1. The irrigation of landscaped areas is prohibited at all times by any means. 2. The use of water to wash any vehicle is prohibited at all times. 3. Surcharges will be added per City ordinance.

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Goal: Achieve the percent reduction set by NTMWD in daily water demand. Supply Management- North Collin Water Supply will discontinue flushing of water mains. Recommended Customer Measures- 1. Landscape watering with sprinklers is limited to watering schedule, but watering done with a hand held hose, bucket, or by drip irrigation is permitted at all times. 2. Washing of vehicles is prohibited except on watering days or at commercial car washes. 3. Filling of pools is prohibited unless it is on a watering day. 4. Operation of ponds or fountains is prohibited unless they are necessary to support aquatic life. 5. The use of water from hydrants is prohibited unless it is for fighting fires or public health, safety, and welfare. 6. All restaurants are prohibited from serving water to patrons unless requested. 8. The use of water to wash down paved or hard surfaces are prohibited. 9. No washing down of structures. 10. Water can not be used for dust control. 11. The use water to flush gutter is permitted. 12. Failure to repair a leak once notified of it.	Goal: Achieve the percent reduction set by NTMWD in daily water demand. Supply Management- Discontinue all non-essential water use. Recommended Customer Measures- 1. The irrigation of landscaped areas is limited to designated watering days between the hours of 6-10 am and 8pm-12am and only by means of hand-held hoses, hand-held buckets, drip irrigation. The use of hose-end sprinklers or permanently installed sprinklers is prohibited. 2. The use of water for washing vehicles is limited to designated water days and hours. 3. The use of wate to fill pools is prohibited. 4. Operation of fountains is prohibited unless it is necessary to support aquatic life. 5. No additions or improvements to the system will be approved. 6. The use of water from fire hydrants for construction purposes is prohibited.	Goal: Achieve a 50% reduction in daily water demand. Recommended Customer Measures- 1. Irrigation of landscaped areas is absolutely prohibited. 2. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is absolutely prohibited.	
Goal- Achieve demand levels requested by NTMWD. Supply Management Measures- Reduce or discontinue flushing of water mains, reduced or discontinued irrigation of public landscaped areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. All restaurants are prohibited from severing water to patrons, unless water is asked for. 7. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve demand levels requested by NTMWD. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. An increase in water rates will occur rates provided by the city. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve demand levels requested by NTMWD. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited.	
Stages 2 & 3 are missing from the report.			

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
	In the event severe conditions persist (Stage 3 or greater) for an extended period of time, the City may ration water usage and/or terminate service in the following sequence: Recreational users, Commercial users, Industrial users, School users, Residential users; Hospitals, Public Health and Safety Facilities.		
1. Initiate studies to evaluate alternatives should conditions worsen, and implement recommendations. 2. Continue public information efforts regarding water supply conditions and conservation efforts. 3. Begin mandatory water use restrictions limiting all landscape and other outdoor water usage at each service address to once every 3 days and according to watering schedule per City.	1. Continue implementation of stage 2 restrictions and continue recommended alternatives identified in stage 2. Initiate studies to continue evaluation of alternatives should conditions worsen. 2. Continue public information efforts regarding water supply conditions and conservation efforts. 3. Continue mandatory water use restrictions limiting all landscape and other outdoor water at each service address to once every seven days and according to watering schedule per City.	1. All outdoor and/or landscaping water shall be prohibited until the emergency is alleviated. 2. The use of water for municipal purposes shall be limited only to those activities necessary to maintain the public health, safety and welfare. 3. The use of water from fire hydrants is prohibited except for fire fighting and related activities. 4. The Director of Public Services shall initiate studies to continue evaluation of alternatives should conditions worsen, and implement recommendations. 5. Continue public information efforts regarding water supply conditions and conservation efforts.	
Goal- Achieve a 10% percent reduction in daily water demand. 1. Irrigation of landscaped areas with hose-end sprinklers shall be prohibited between the hours of 4 pm and 9 pm. Use of automatic irrigation systems will be limited to the hours of 1 am and 6 am. All watering is prohibited on Sundays. 2. Use of soaker hoses is permitted at all times for foundations only. 3. Use of water to wash vehicles at residences shall follow the schedule mentioned in section 1. Vehicles may be washed at commercial car washes any time. Exceptions include garbage trucks and others that must be washed to maintain health and safety regulations. 4. Use of water to maintain pool levels is limited to schedule mentioned in section 1. 5. Operation of fountains or ponds is prohibited unless they support aquatic life. 6. Use of water from hydrants is limited to fire fighting and other activities related to public safety, health, and welfare.	*Not listed in the report (page missing)	1. Irrigation of landscaped areas is limited to Monday, Wed., and Fri. and shall be by means of hand-held hoses with positive shut off nozzles. Irrigation of landscaped areas is prohibited between the hours 1 pm and 9 pm on watering days. 2. Use of water to wash vehicles not at commercial car washes is prohibited. Use of water to wash vehicles at commercial washes shall be prohibited between the hours of 1 pm and 9 pm. 3. The filling of swimming pools is limited to between 6 am and 11 am on designated water days. 4. Operation of fountains or ponds is prohibited unless they support aquatic life. 5. No applications for additions or improvements to the systems will be allowed or approved. 6. The use of soaker hoses is permitted only for foundations and only on designated watering days.	Goal- Achieve 50% reduction in daily water demand. 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. 3. The use of soaker hoses is prohibited.

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: 1. Flushing of water mains for public health only. 2. Discontinue irrigation of public landscaped areas. 3. Discontinue work site wash downs. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Rowlett. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 45% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
Continue implementing all Mild Condition actions. 1. Prohibit car, window, and pavement washing except when a bucket is used. 2. Unless essential for public health or safety prohibit the following: Street washing, fire hydrant flushing, filling of swimming pools, and watering of athletic fields. 3. Implement the lawn watering schedule, which an odd and even system. Watering is allowed between the hours of 4 am till 8 am and 8 pm till 10 pm.	Continue implementing all Moderate Condition actions. 1. Prohibit all outdoor water use unless essential for public health or safety. 2. Impose max limits for water use. 3. Impose monetary fines for violators of prescribed maximum use limits. Notify each customer of this action.		
Continue implementing all relevant actions in preceding phase. 1. Prohibit car, window, and pavement washing except when a bucket is used. 2. Unless essential for public health or safety prohibit the following: Street washing, fire hydrant flushing, filling of swimming pools, and watering of athletic fields. 3. Implement the lawn watering schedule, which an odd and even system. Watering is allowed between the hours of 6 am till 10 am and 8 pm till 10 pm. 4. Operation of fountains or ponds is prohibited unless it is used to support aquatic life. 5. Request industries and other non-municipal users to curtail all non-essential use, increase recycling, or modify production process.	Continue implementing all relevant actions in preceding phase. 1. Prohibit all outdoor water use unless essential for public health or safety. 2. Limit use to residential customers and secure compliance with legal action if necessary. 3. Require industrial and commercial users to stop operations. 4. Establish monetary fines for exceeding limits. Notify each customer of this action.		

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 5% reduction in daily water demand. Supply Management Measures: 1. Reduce flushing of water lines. 2. Discontinue irrigation of public landscaped areas. 3. Use reclaimed water for non-potable purposes. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only between the hours of 6 am to 10 am and between 8 pm and 12 am with hand held hose, buckets, or drip irrigation. 2. Watering of golf courses tees is prohibited unless the water is obtained from other than the City of Rockwall. 3. Washing of vehicles is prohibited, unless done at a commercial car washes adhering to watering schedule. 4. The use of water for construction purposes under special permit is discontinued. 5. All restaurants are prohibited from serving water unless asked. 6. The filling of pools is prohibited. 7. No applications for improvements to the system will be allowed or approved.	Goal- Prohibit all uses of public water supply, except in emergency cases until further notice. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. 3. Water use is only in emergency cases.	
1. No outdoor usage between 8 am until 7 pm. 2. Users with an even address may use water for outdoor purposes on Mon., Wed., or Fri., and odd addresses on Tue., Thurs., or Sat. 3. No watering on Sun.	The City Council bans the use of water totally for outdoor sprinkling, watering lawns, shrubs, driveway and automobile washing. Certain industrial and commercial users which are not not essential to health & safety of the community will be prohibited from use.		
Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains, discontinue irrigation of public landscape areas, and use of reclaimed water for non-potable purposes. Water Use Restrictions: All requirements of Stage 2 except: 1. Landscape irrigation will be according to watering schedule, but by means of hand-held hoses, buckets, drip irrigation, or permanently installed automatic sprinklers. 2. The watering of golf courses is prohibited, unless supplied by another source. 3. The use of water for construction purposes with special permits is discontinued.		

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Continue implementing all relevant actions in the preceding phase. 1. Car, window and pavement washing prohibited except when a bucket is used. 2. Street washing, water hydrant flushing, filling of swimming pools, and athletic field watering are prohibited uses of public water. 3. Implement the even odd watering schedule between the hours of 6-10 am and 8-10 pm.	Continue implementing all relevant actions in the preceding phase. 1. Ban all outdoor water use. 2. Set limits on water use by both commercial and residential users. 3. Establish monetary fines for exceeding water use limits or violation of drought contingency plan. Notify all customers of penalties.		
Step 2- Mayor will ban the use of water totally for outdoor sprinkling, watering of lawns, shrubs, driveway and automobile washing.			

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Goal- Reduce and maintain daily demand at or below 90% of system capacity. Supply Management Measures: Identical to Stage 1 measures. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the Facility. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the Facility. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing gutters and failure to repair controllable leaks are all prohibited.	Goal- Reduce and maintain daily demand at or below 90% of system capacity. Supply Management Measures: Identical to Stage 1 measures. Water Use Restrictions: All restrictions from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the Master District. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Reduce and maintain daily demand at or below 90% of system capacity. Supply Management Measures: Identical to Stage 1 measures. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved. 6. In the rare event that water shortage conditions threaten public health, safety, and welfare, the Municipal Utility District Board of Directors is authorized to allocate water for residential and commercial users.	
Goal- Achieve a 7% reduction in daily water demand. Supply Management Measures: Reduced or discontinued use for flushing of water mains and irrigation of public landscaped areas, and use of an alternative source and reclaimed water for non-potable uses. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. Washing down of hard surfaces or buildings, use water for dust control, flushing gutters, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 8% reduction in daily water use. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Italy. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 10% reduction in daily water demand. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 15% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. Stage 6- Water will be alloted according to the City's plan.

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Continue implementation of all relevant actions in preceding phase. Prohibit car, window, and pavement washing except when a bucket is used. Implement the lawn watering schedule provided by the City between the hours of 8 pm until 10 am. The following public water uses not essential for public health or safety will be prohibited: Street washing, water hydrant flushing, filling swimming pools, athletic field watering, watering grassed areas of public property.	Continue implementation of all relevant actions in two previous phases. All outdoor water use will be prohibited. Advise the public daily regarding the severity of the condition. Consider adoption of an emergency ordinance to implement water rationing or surcharges for excessive water use.		
Voluntary conservation shall become mandatory.	Customers must comply with the regulations set by the City's plan.		
1. Continue implementing all relevent actions in preceding phase. 2. Car washing, window washing, pavement washing are all prohibited except when a bucket is used. 3. The following public water use, not essential for public health or safety, are prohibited: Street Washing, Water Hydrant Flushing, and Athletic Field Watering. 4. Implement the City's mandatory watering schedule.	1. Continue implementing all relevent actions in preceding phase. 2. Ban all outdoor water use. 3. Set limits on water use by both commercial and residential users. 4. Establish monetary fines for exceeding water use limits or violation of drought contingency plan. Notify all customers of penalties.		

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Goal- Achieve a voluntary 15% reduction in daily water demand. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Van Alstyne. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
Inform the public of condition and ask that all customers repair all water leaks and restrict outside water use to specified periods on assigned days.	Curtail all irrigation until further notice. Temporarily ban the use water to supply or re-supply swimming pools. Curtail industrial use of water.		

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
1. Mandatory lawn watering schedule. 2. Fine water wasters. 3. Institute an excessive use fee. 4. Prohibit certain uses such as ornamental water fountains or other non-essential water uses. 5. Request industries or other non-municipal water users to stop certain uses, find additional sources, increase recycling, or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish legal penalties for those who fail to comply. 3. Require industrial or commercial water users to stop operations so that remaining water is available for essential health and safety related uses.		
Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: The City in order to reduce water demand will reduce or discontinue flushing of water mains, reduce or discontinue irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all pr	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Lake Worth. 3. The use of water for construction purposes from fire hydrants under special permit is discontinued.	Goal- Achieve a 50% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of the previous stage, but watering is allowed only with hand held hose, buckets, or drip irrigation systems only. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule and between the hours of 2 am to 4 am and 9 pm to 11 pm. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
1. Continue implementation of all relevant actions from stage 1. 2. Initiate engineering studies to evaluate alternatives. 3. Continue public info efforts. 4. Begin mandatory water use restrictions: Prohibit hosing off paved areas, buildings, or windows; operation of ornamental fountains, swimming pool draining followed by refilling; washing or rinsing vehicles by hose; using water in such a manner as to allow runoff or other wastes. 5. Implement the City's watering schedule between the hours 10 am and 7 pm. 6. Require reduction in local governments non-essential use and reduction in landscape watering. 7. Encourage people to wait until the emergency water situation has passed before establishing new landscaping. 8. Prohibit draining and refilling of existing pools and filling of new pools. 9. Advise City of Watauga of actions being taken by North Richland Hills and require enforcement of like procedures in Watauga.	1. Continue implementation of all relevant actions from stage 1 and 2. 2. Implement recommended engineering alternatives. 3. Prohibit residential and commercial lawn watering and car washing between the hours of 10 am to 7 pm. 4. Foundations, shrubs, and trees may be watered with soaker or hand-held hose on the water schedule. 5. Golf courses using treated water for grounds watering must adhere to following schedule: Greens and tee boxes may be watered but not between 10 am to 7 pm. All other areas must adhere to City's rotational schedule. 6. Public gardens may be watered, but not between 10 am to 7 pm. 7. Nurseries may water stock, but not between 10 am to 7 pm. 8. No new landscaping may be established during this period. 9. No refilling of private pools. 10. Advise City of Watauga of actions being taken by North Richland Hills and require enforcement of like procedures in Watauga.	1. Nurseries may water stock, but not between 10 am to 7 pm and abide by rotational schedule. 2. Public gardens may be watered, but not between 10 am to 7 pm and abide by rotational schedule. 3. Golf course greens and tee boxes may be watered, but not between 10 am to 7 pm and abide by rotational schedule. 4. No refilling of public pools. 5. All commercial users may be required to reduce water consumption. 6. Advise City of Watauga of actions being taken by North Richland Hills and require enforcement of like procedures in Watauga.	
1. All measures of previous stage will remain in effect. 2. Contact all customers with meters larger than one inch to request reduction of water consumption by 15%.	1. All measures of previous stage will remain in effect. 2. The Director of Public Works of the City shall notify the local TV, newspaper, and police dept. of the status of the system. 3. Customers will be notified by telephone and written notice of the condition. 4. The City will eliminate all non-essential uses such as car washes and lawn watering.		
1. Impose a mandatory odd-even watering schedule. 2. Prohibit non-essential water uses as defined in the plan. 3. Investigate complaints of water misuse and cite water wasters. 4. Vehicles may be washed at commercial car washes, otherwise, they may be washed utilizing water buckets only.	1. Prohibit all outdoor water use, except those needed to substain livestock, pets, aquatic life, and fire fighting. 2. Contact largest commercial and industrial users and request limited water use or temporarily cease watering consuming operations. 3. No applications for new, additional, expanded, or increased-in-size water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved. 4. Washing vehicles is prohibited, except those needed for sanitation or safety reasons.		

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Goal- Achieve a 20% reduction in daily demand. Supply Management Measures: The City in order to reduce water demand will not flush dead lines or wash vehicles or the outsides of buildings. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing gutters, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Use of West Wise Water Association as an alternative supply source will be implemented directly by the City to manage limited water supplies. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf courses is prohibited unless the water is obtained from other than the City of Chico. 3. The use of water for construction purposes from fire hydrants under special permit is discontinued.	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Stage 3 measures still in effect. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of the previous stage, but watering is allowed only with hand held hose, buckets, or drip irrigation systems only. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule and between the hours of 2 am to 4 am and 9 pm to 11 pm. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 40% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
Restrict all outside watering to 6 am to 8 am daily. Issue notice by radio and TV announcements. Notify major users by telephone. Notify first time violators personally. Notify second time violators by citation.	Institute water rationing to ensure essential uses. Issue notice by radio and TV announcements. Notify major users by telephone. Notify first time violators personally. Notify second time violators by citation.	Impose mandatory restrictions of water use. Close distribution systems valves to preserve water for vital uses. Issue notice by radio and TV announcements. Notify major users by telephone. Notify first time violators personally. Notify second time violators by citation.	

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Step 2- Outdoor residential use will be permitted an alternate days. The Mayor will monitor system functions and may establish hours for outside water use. Public info officer shall keep the public advised. Commercial and industrial users will be individually visited to insure volunteered conservation has been initiated. All customers with larger than 1-inch meters will be requested to reduce consumption 15%.	Step 3- The City will ban water use to the following: 1. Vehicle washing, window washing, and all outside watering. 2. Public water uses which are non-essential. 3. Commercial uses and industrial uses will be controlled to the extent determined by the Mayor to restore overall system to a safe performance level.		
1. Continue all relevant actions initiated in the preceding phase. 2. Residential car washing, window washing and pavement washing will be prohibited unless done with a bucket. 3. Street washing, water hydrant flushing, filling swimming pools, and athletic field watering are prohibited uses of public water. 4. A mandatory lawn watering schedule shall be imposed. Watering shall be only permitted during the hours of 6 am until 10 am and 8 pm until 10 pm.	1. Continue the previous phases actions. 2. All outdoor water not essential for public health or safety, shall be prohibited. 3. Establish maximum water use limits for commercial and residential users, and establish monetary fines or surcharges to be levied for exceeding water use limits.		
Goal- Achieve a 15% reduction in daily water demand. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the West Leonard WSC. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 30% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains.. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% reduction in daily water demand. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Goal- Achieve a voluntary 15% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce irrigation of public landscape areas. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Supply Management Measures: Reduce or discontinue flushing of water mains, discontinue irrigation of public landscape areas, and use of reclaimed water for non-potable purposes. Water Use Restrictions: All requirements of Stage 2 except: 1. Landscape irrigation will be according to watering schedule, but by means of hand-held hoses, buckets, drip irrigation, or permanently installed automatic sprinklers. 2. The watering of golf courses is prohibited, unless supplied by another source. 3. The use of water for construction purposes with special permits is discontinued.		
Goal- Achieve a 20% -30% reduction in daily water demand. Water Use Restrictions: 1. 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 1 when using sprinklers, but watering is allowed anytime with hand held hose, buckets, drip irrigation. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 30%-50% reduction in daily water demand. Supply Management Measures: Reduced or discontinued flushing of water mains.. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 50% or greater reduction in daily water demand. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. 3. Implementation of water rationing pursuant to Executive Order.	

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
1. Inform the public and encourage voluntary reductions in water use. 2. Advise public daily of situation. 3. Enact Step 2 Curtailment: A. Notify major commercial users of the situation and request voluntary reductions. B. Implement the City mandatory watering schedule, which allows customers with last names beginning with A-M to water on even number days and customers with last names ending in N-Z to water on odd days. C. During winter months request customers to insulate pipes rather than running water to prevent freezing. D. Corporation will begin monitoring pressure in the distribution system and water levels in the storage tanks.	1. Inform the public and encourage reductions in water use. 2. Advise public daily of situation. 3. Enact Step 3 Curtailment: Ban all outdoor water use A. Continue implementation of all relevant actions of previous stages. B. Car, window, and pavement washing are prohibited unless done with bucket. C. The following public uses are prohibited: Street washing, water hydrant flushing, filling pools, golf course watering, and athletic field watering. D. Exceptions by approval of General Manager: Health and safety uses of water, commercial businesses that uses water to maintain, but not expand, their businesses, public gardeners, watering at a minimum rate necessary to establish or maintain revegetation or landscape plantings. 4. Certain industrial and commercial water users which are not essential to the health and safety of community will be prohibited from water use.		
1. Impose mandatory lawn watering schedule. 2. Fine water wasters. 3. Institute an excessive use fee. 4. Prohibit non-essential use. 5. Request industries and other non-municipal water users to stop certain use, find additional sources, increase recycling or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish penalties for those who fail to comply. 3. Require industrial or commercial water users to stop operations so that remaining water is available for essential health and safety related issues.		
1. Continue phase 1 measures. 2. Request wholesalers to begin voluntary measures. 3. Review water system conditions and complete repairs. 4. Through the media water users will be notified to begin conservation.	1. Continue mild condition measures. 2. Request all wholesalers to begin mandatory measures. 3. Increase frequency and quantity of info to the public through the news media.	1. Continue phase 3 measures. 2. Request wholesalers to begin water rationing. 3. Continue public info releases.	
Goal- Achieve a 15% reduction in daily water demand. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the Facility. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the Facility. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a 20% reduction in daily water demand. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the Facility. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a 25% reduction in daily water demand. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve 30% reduction in daily water demand. Water Use Restrictions: All relevant previous actions still in effect. 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited.

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Outdoor water use prohibited from 12 pm to 12 am.	All outdoor water use is prohibited.		
1. Mandatory lawn watering schedule. 2. Fine water wasters. 3. Institute an excessive use fee. 4. Prohibit certain uses such as ornamental water fountains or other non-essential water uses. 5. Request industries or other non-municipal water users to stop certain uses, find additional sources, increase recycling, or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish legal penalties for those who fail to comply. 3. Require industrial or commercial water users to stop operations so that remaining water is available for essential health and safety related uses.		

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
1. Initiate engineering studies to evaluate alternatives should conditions worsen. 2. Continue public information efforts. 3. Begin mandatory water restrictions as follows: Prohibit hosing off paved areas, building or windows; operation of ornamental fountains; washing of vehicles by hose; using water in a manner that allows runoff or other water wastes. 4. Limit landscape watering to schedule(five-day rotation) provided by the City and watering is prohibited between 10 am and 7 pm. with exceptions. 5. Require a reduction by local governments of non-essential water use and a reduction in landscape watering. 6. Encourage people to let emergency situation pass before establish new landscaping. 7. Prohibit refilling of existing pools and filling of new pools, pools that are filled may add water to replace what is lost during the day. 8. Advise wholesale customers to take the correct actions.	1. Implement recommended engineering alternatives. 2. Continue implementation of all restrictions from previous stages.. 3. Prohibit residential and commercial landscape watering and vehicle washing between hours of 10 am and 7 pm. 4. Foundations, shrubs, and trees may be watered with soaker or hand-held hose on the five-day rotational basis as landscapes for up to two hours. 5. Golf course may water greens and tee-boxes, but not between the hours mentioned above. Fairways and all other areas must adhere to the watering schedule. 6. Public gardens may be watered, but not between posted hours. 7. Nurseries may water stock, but not between posted hours. 8. No new landscaping may be established during this period. 9. No refilling of private pools. Commercial and public pools may refill. 10. Advise wholesale customers to take the correct actions.	1. Continue implementation of all restrictions from previous stages. 2. Prohibit all residential and commercial landscape watering, except: nurseries may water stock, public gardens may water, golf courses may water greens and tee-boxes, and foundations may be watered for 2 hours using a soaker hose or hand-held hose, but all must follow the watering schedule and times watering is allowed. 3. Vehicle washing is prohibited, unless it is for health, sanitation, or safety reasons; or at a commercial car wash. 4. No new landscaping during this period. 5. No refilling of private pools. Commercial and public pools may refill what is lost from normal daily use. 6. All commercial water users may be required to reduce consumption by a percentage determined by the director. 7. Advise wholesale customers to take the correct actions.	
1. Continue to implement all relevant actions from stage 1. 2. Implement stage 1 watering schedule, but make it mandatory.	1. Continue implementation of all relevant actions of preceding stages. 2. All outdoor watering is prohibited. 3. Contact TRA to determine if additional water is available. 4. By Council action, implement a user's surcharge for excessive use. 5. Ration water in the following order: Industrial, Commercial, Residential, Public health and Safety facilities.		
1. Town or City will be responsible for reducing non-essential use. 2. Vehicle washing is prohibited, unless done with bucket or pail; or at a commercial car wash. 3. No runoff is allowed off yards. 4. No washing of structures. 5. No permitting or maintaining of defective plumbing. 6. No use of hydrants, unless for fighting fires. 7. No water use for ornamental fountains. 8. No washing down of hard-surfaced areas. 9. No water can be used for dust control.	1. Designated official announces beginning of mandatory water reduction. 2. Implement odd/even watering schedule. 3. The two councils shall set a mandatory water use limit with out penalty. 4. Restaurants are prohibited from serving water, unless requested. 5. Use for scenic ponds or lakes is prohibited. 6. The use of water for all pools is prohibited. 7. The use of water for new landscaping is prohibited.	1. All outdoor use is prohibited. 2. All allocations of water use to commercial customers shall be established by City Manager. 3. The max monthly usage by residents will be established by City Manager. 4. The Managers shall take actions deemed necessary to meet the conditions resulting from the emergency.	

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
1. Initiate engineering studies to evaluate alternatives should conditions worsen. 2. Continue public info efforts. 3. Begin mandatory water use restrictions as follows: Prohibit hosing off sidewalks, driveways, parking lots, paved areas, or other hard surfaced areas; Prohibit washdown of buildings, windows or structures, other than for fire production; Operation of ornamental fountains; Washing or rinsing of vehicles; Flushing of gutters; Using water in such a manner as to allow runoff or other wastes. 4. Implement the City's five-day rotational watering plan. 5. Require reduction by local governments of non-essential use and landscape watering. 6. Encourage public to wait until condition has improved before establishing new landscaping. 7. Prohibit draining and refilling of existing pools and filling of new pools. Existing commerical, public and private swimming pools that are filled may only add water that is lost during normal daily use.	1. Implement recommended engineering alternatives. 2. Continue implementation of all restrictions from previous stages. 3. Prohibit residential or commercial landscape watering and car washing between the hours of 10am and 7pm. 4. Foundations, shrubs, and trees may be watered with soaker or hand-helsd hose on watering days for 2 hours. 5. Public gardens may water, but not between the hours 10am and 7pm. 6. Nurseries may water plant stock, but not between the hours of 10am and 7pm. 7. No new landscaping may be established during this period. 8. No refilling of private pools. Commercial and public pools may refill.	1. Continue implementation of all restrictions from previous stages. 2. Prohibit residential and commerical landscape watering with the following exceptions: Nurseries' plant stock, public gardens, and foundations may be watered but must follow watering schedule and hours in stage 3; or any location using groundwater or wastewater effluent for irrigation. 3. Any and all washing of vehicles is prohibited, except vehicles that need to be washed for health, sanitation, or safety reasons, such as food carriers. 4. No new landscaping may be established during this period. 5. No refilling of private pools. Commercial and public pools may refill water lost to normal daily use. 5. All commerical water users may be required to reduce water consumption by a percentage determined by the Mayor.	

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Mandatory limits on lawn watering, restrictions against hosing off paved areas, building or windows washing or rinsing of vehicles by hose and any operation of fountains. No draining and refilling of swimming pools. Violators subject to fines.	Strengthen mandatory water restrictions to specified days and hours, raise retail and wholesale rates by 10% for use exceeding 4,000 gallons per month.	No watering of landscaped areas, no washing of vehicles, mandatory reduction for commercial users, raise rates another 10% for use exceeding 4,000 gallons per month.	
Voluntary reduction with public education of conditions and reduce non-essential use of water	Mandatory limits on all lawn and landscape watering to Wed. and Sat. only. Prohibit washing off paved areas, buildings or windows; or rinsing off vehicles. No operation of fountains or filling of swimming pools. Violators subject to fines.	Limit watering of landscaped areas between 4-9am on designated days. All commercial and industrial accounts must submit a detailed water conservation plan to the city for consideration and approval. Violators subject to fines.	No landscape watering, no washing of vehicles, and all violators subject to fines.
Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1, watering is allowed at all times when done use a hand-held hose, a bucket or watering can, or drip irrigation. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the City. 3. The use of water for construction purposes under special permit is discontinued. 4. Restaurants are prohibited from serving water to patrons, unless requested.	Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above, except between 6-10 am and 6-10 pm. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Reduce daily water usage to 4.0 mgd. Water Use Restrictions: All relevant previous actions still in effect. 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited.

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
1. Continue implementation of stage 1 actions. 2. Prohibit nonessential use. 3. Limit residential car, window, and pavement washing unless a bucket is used. 4. Impose watering schedule in stage 1, but make it mandatory. 5. Assess fines to water wasters.	1. Maintain all relevant actions of previous stages. 2. Forbid all outside water use. 3. Restrict each customer's water consumption to a percentage determined prior. 4. Consider adoption of an emergency ordinance to implement water rationing.		
1. Impose mandatory lawn watering schedule between the hours of 6-8 am and 6-8 pm only. 2. Fine water wasters. 3. Institute excessive use fee. 4. Prohibit non-essential use. 5. Request industries or other non-municipal water to stop certain uses, find additional sources, increase recycling or modify production processes where possible.	1. Prohibit all outdoor water use. 2. Limit the amount of water each customer can use and establish legal penalties for those who fail to comply. 3. Require industrial or commercial users to stop operations so that remaining water is available for essential health and safety related uses.		
Goal- Achieve a 15% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: 1. Irrigation of landscaped areas with hose-ended sprinklers or auto-sprinkler systems shall be limited. 2. Use of water to wash vehicles shall be limited to watering schedule. 3. Use of water to fill pools shall be limited to watering schedule. 4. Operation of fountains or ponds shall be prohibited, unless needed to sustain aquatic life. 5. Use of water from hydrants shall be limited to fire fighting and related activities, except for construction uses when a permit is obtained from the City. 6. Irrigation of golf courses must follow watering schedule unless water is provided by another source. 7. All restaurants are prohibited from serving water to patrons unless it is requested. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair leaks is prohibited.	Goal- Achieve 20% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of stage 2 still in effect except: 1. Irrigation of landscaped areas is limited to schedule mentioned earlier, by means of hand-held hoses, hand-held buckets, drip irrigation or permanently installed automatic sprinkler system only. The use of hose-end sprinklers is prohibited at all times. 2. The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the City of Trinidad. 3. The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.	Goal- Achieve a 25% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be occuring to the schedule between the hours of 6am until 10am and 6pm until 10pm. 2. Use of water to wash vehicles shall be prohibited unless done at a commercial car wash between designated hours. 3. Use of water to fill pools shall be prohibited. 4. Operation of fountains or ponds shall be prohibited unless needed to support aquatic life. 5. No application for improvements to system will be allowed or approved.	Goal- Achieve a 25% reduction in total use. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be prohibited. 2. Use of water to wash vehicles shall be prohibited. 3. Implement water rationing and surcharges provided by the city.

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
Goal- Achieve a 10% reduction in daily demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: 1. Irrigation of landscaped areas with hose-ended sprinklers or auto-sprinkler systems shall be limited. 2. Use of water to wash vehicles shall be limited to watering schedule. 3. Use of water to fill pools shall be limited to watering schedule. 4. Operation of fountains or ponds shall be prohibited, unless needed to sustain aquatic life. 5. Use of water from hydrants shall be limited to fire fighting and related activities, except for construction uses when a permit is obtained from the City. 6. Irrigation of golf courses must follow watering schedule unless water is provided by another source. 7. All restaurants are prohibited from serving water to patrons unless it is requested. 8. Washing down of hard surfaces or buildings, use water for dust control, flushing gutters, and failure to repair leaks is prohibited.	Goal- Achieve 10% reduction in daily demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of stage 2 still in effect except: 1. Irrigation of landscaped areas is limited to schedule mentioned earlier, by means of hand-held hoses, hand-held buckets, drip irrigation or permanently installed automatic sprinkler system only. The use of hose-end sprinklers is prohibited at all times. 2. The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the City of Trinidad. 3. The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.	Goal- Achieve a 10% reduction in daily demand. Supply Management Measures: Reduce or discontinue flushing of water mains and reduce or discontinue irrigation of public landscaped areas. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be occuring to the schedule between the hours of 6am until 10am and 6pm until 10pm. 2. Use of water to wash vehicles shall be prohibited unless done at a commercial car wash between designated hours. 3. Use of water to fill pools shall be prohibited. 4. Operation of fountains or ponds shall be prohibited unless needed to support aquatic life. 5. No application for improvements to system will be allowed or approved.	Goal- Achieve a 10% reduction in daily demand. Supply Management Measures: Discontinue all water system operations, initiate emergency response procedures. Water Use Restrictions: All requirements of previous stages still in effect, except: 1. Irrigation of landscaped areas shall be prohibited. 2. Use of water to wash vehicles shall be prohibited. 3. Implement water rationing and surcharges provided by the city.
1. Inform the public through news media of situation. 2. Indicate appropriate measures through media. 3. Request voluntary reduction in total water usage by 20%. 4. Implement the 5 day rotational watering system of the City. 5. Prohibit all other non-essential uses. 6. Impose a fine of $200 for violations. 7. Impose a surcharge of $3.50 per 1000 gallons for all use over 8,000 gallons per month.	1. Inform the public through news media of situation. 2. Indicate appropriate measures through media. 3. Request voluntary reduction in total water usage by 20%. 4. Prohibit all outdoor water use. 5. Impose a fine of $500 for violations. 6. Impose a surcharge of $3.50 per 1000 gallons for all use over 7,000 gallons per month.		

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
1. Implement City odd/even watering schedule. 2. Mayor will monitor system and set hours. 3. Keep public advised of situation. 4. Commercial and industrial users will be visited to insure volunteered conservation.	Mayor will ban use for the following: 1. Vehicle and window washing, outside watering. 2. Non-essential public uses. 3. Commercial uses not listed and industrial uses will be controlled to the extent dictated by the Mayor.		
Goal- Achieve a voluntary 6% reduction in total use and a 6% increase in pressure. Demand Management Measures: Contact wholesale customers to discuss conditions and possibility of pro rata curtailment; request initiation of mandatory measures; initiate preparation for pro rata curtailment; will provide weekly reports to media.	Goal- Achieve a voluntary 6% reduction in total use and a 6% increase in pressure. Demand Management Measures: Request initiation of mandatory measures; initiate pro rata curtailment; will provide weekly reports to media.	1. Assess severity of situation. 2. Inform wholesale customers. 3. Notify city, county, or state officials for assistance. 4. Undertake necessary actions e.g.. Repairs. 5. Prepare post event report.	
Goal- Achieve a --% reduction in --. Water Use Restrictions: 1. Water customers shall limit landscape watering to the watering schedule of stage 1. 2. Water use for vehicle washing must adhere to watering schedule, unless at a commercial car wash. 3. Water use to fill pools must adhere to watering schedule. 4. Operation of fountains or ponds is prohibited, unless necessary to support aquatic life. 5. The use of hydrants shall be for fire fighting or related activities. Construction purposes may be allowed if a special permit is supplied by the City. 6. Use of water to irrigate golf courses must adhere to watering schedule, unless the water is not supplied by the City. 7. All restaurants are prohibited from severing water to patrons, unless water is asked for. 8. Washing down of hard surfaces or buildings, use water for dust control, and failure to repair controllable leaks are all prohibited.	Goal- Achieve a --% reduction in --. Supply Management Measures: Reduced or discontinued flushing of water mains. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule of stage 2, but watering is allowed only with hand held hose, buckets, drip irrigation, or permanently installed automatic sprinkler system. 2. Watering of golf course tees is prohibited unless the water is obtained from other than the City. 3. The use of water for construction purposes under special permit is discontinued.	Goal- Achieve a --% reduction in --. Supply Management Measures: Reduced or discontinued flushing of water mains.. Water Use Restrictions: All stages from previous stage still in effect: 1. Irrigation of landscaped areas shall be limited to the watering schedule between the hours 6 am till 10 am and 8 pm till 12 am, but watering is allowed only with hand held hose, buckets, and drip irrigation. 2. Washing of vehicles is prohibited, except at a commercial carwash following the watering schedule mentioned above. 3. The filling of pools is prohibited. 4. Operation of fountains or ponds is prohibited unless aquatic life is supported by the operation. 5. No applications for new, additional, expanded, or increased in size water connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be allowed or approved.	Goal- Achieve --% reduction in --. Supply Management Measures: Stage 4 measure still in effect. Water Use Restrictions: 1. Irrigation of landscaped areas is prohibited. 2. Use of water to wash vehicles is prohibited. .
Authority will notify wholesale customers that diversion from reservoir must be reduced.	Authority will notify wholesale customers that diversion from reservoir must be reduced.	Authority will notify wholesale customers that diversion from reservoir must be reduced.	Authority will notify wholesale customers that diversion from reservoir must be reduced.

POSSIBLE ACTIONS			
STAGES			
2	3	4	5
1. Continue phase 1 measures. 2. Request wholesalers to begin voluntary measures. 3. Review water system conditions and complete repairs. 4. Through the media water users will be notified to begin conservation.	1. Continue mild condition measures. 2. Request all wholesalers to begin mandatory measures. 3. Increase frequency and quantity of info to the public through the news media.	1. Continue phase 3 measures. 2. Request wholesalers to begin water rationing. 3. Continue public info releases.	

APPENDIX P

EVALUATION OF ALTERNATIVE FOR WATER MANAGEMENT STRATEGIES IN REGION C

APPENDIX P
EVALUATION OF ALTERNATIVE FOR WATER MANAGEMENT STRATEGIES IN REGION C

Table P-1 sets out the factors specifically considered by the Region C Water Planning Group in the evaluation of potential water management strategies. Most strategies are evaluated qualitatively, with a rating of low, moderate, or high. The quantity of water made available and the unit cost of delivered and treated water are evaluated quantitatively. Consistency with plans of Region C water suppliers is an important evaluation criterion. It has always been the intent of the Region C Water Planning Group to build the Region C Water Plan on the existing plans of the water suppliers in the region, especially the major water providers.

Table P-1
Factors Used to Evaluate Water Management Strategies for Region C
Maximum Quantity of Water Made Available
Reliability of Supply
Total Capital Cost
Highest Unit Cost of Delivered and Treated Water
Environmental Impacts
Impacts on Water Resources and Other Management Strategies
Impacts on Agricultural and Natural Resources
Consistency with Plans of Region C Water Suppliers
Consistency with Other Regions

The maximum quantity of water made available is determined in TWDB Table 11 found in Appendix S. The reliability of supply is based on the low, moderate, and high ranking system. The reliability is based on the water that would be available once the project is completed. The total capital cost and highest unit cost are also determined in TWDB Table 11 (Appendix S). A more detailed description of the costs is in Appendix R. Appendix Q contains more detailed information on the environmental evaluation of the management strategies. The overall environmental ranking is listed in Table P-2.

The rating of impacts on water resources and other water management strategies and the rating of impacts on agriculture and natural resources are based on the low, moderate, and high scale. Consistency with supplier plans and other regions is rated as consistent or not consistent.

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Major Water Providers and Other Water Suppliers														
Dallas				Trinity	Return flows above lakes	50,000	Low	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Additional Temporary Overdraft	22,000	Moderate	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Extend Elm Fork Term Permit	10,000	High	$500,000	$4	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Lake Fork Connection	120,000	High	$288,000,000	$228	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Lake Palestine Connection	111,500	High	$332,600,000	$278	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Marvin Nichols I (Phase I)	56,000	High	$220,796,000	$375	High	Low	High	Consistent	Consistent
Dallas				Trinity	Marvin Nichols I (Phase II)	56,000	High	$131,530,000	$258	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Indirect Reuse	68,300	High	$124,000,000	$171	Moderate	Low	Moderate	Consistent	Consistent
Dallas				Trinity	Additional Return Flows (Alternative after 2030)	50,000	High	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Additional Indirect Reuse (Alternative after 2030)	50,000	High	$42,333,000	$266	Moderate	Low	Low	Consistent	Consistent
Dallas				Trinity	Water Treatment Plant Expansions	0	High	$107,134,000	$166	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Water Treatment Plant Expansions	0	High	$153,351,000	$280	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Water Treatment Plant Expansions	0	High	$67,369,000	$169	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Water Treatment Plant Expansions in 2040	0	High	$67,369,000	$169	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Cedar Creek/Richland-Chambers Pipeline Expansion (Phase I)	110,000	High	$24,681,000	$145	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Cedar Creek/Richland-Chambers Pipeline Expansion (Phase II)	0	High	$233,967,000	N/A	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Indirect Reuse from the Trinity River (Phase I)	63,000	High	$34,294,000	$237	Moderate	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Indirect Reuse from the Trinity River (Phase II)	52,500	High	$40,874,000	$255	Moderate	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Marvin Nichols I (Phase I)	78,000	High	$402,081,000	$509	High	Low	High	Consistent	Consistent
Tarrant Regional Water District				Trinity	Marvin Nichols I (Phase II)	78,000	High	$271,285,000	$385	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	West Fork Connection	0	High	$60,539,000	N/A	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Oklahoma water (Alternative after 2030)	12,000	High	$99,931,000	$1,095	Moderate	Low	Low	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Tarrant Regional Water District				Trinity	Lake Texoma (Alternative after 2030)	25,000	High	$75,580,000	$280	Moderate	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Lake Tehuacana (Alternative after 2030)	68,300	High	$213,351,000	$240	Moderate	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Freestone County Groundwater	25,000	Moderate	$123,794,000	$737	Low-High	Moderate	Low	Consistent	Consistent
North Texas Municipal Water District					Additional Indirect Reuse	35,872	High	$1,000,000	$2	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Additional Lake Texoma	10,000	High	$5,286,000	$78	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Oklahoma water	50,000	High	$68,777,000	$441	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Lower Bois d'Arc Creek Lake	98,000	High	$167,324,000	$157	Moderate	Low	Moderate	Consistent	Consistent
North Texas Municipal Water District					Marvin Nichols I (Phase I)	81,650	High	$259,218,000	$289	High	Low	High	Consistent	Consistent
North Texas Municipal Water District					Marvin Nichols I (Phase II)	81,650	High	$132,387,000	$176	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Substantial Additional Lake Texoma water (Alternative after 2030)	50,000	High	$238,477,000	$638	Moderate	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Extend Texoma Pipeline (Alternative after 2030)	6,700	High	$51,927,000	$572	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Water Treatment Plant Expansions in 2010	0	High	$194,409,000	$189	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Water Treatment Plant Expansions in 2020	0	High	$67,592,000	$145	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water Dis trict					Water Treatment Plant Expansions in 2030	0	High	$187,240,000	$263	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Water Treatment Plant Expansions in 2040	0	High	$168,490,000	$246	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Water Treatment Plant Expansions in 2050	0	High	$183,724,000	$331	Low	Low	Low	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Fort Worth				Trinity	Purchase water from TRWD	213,816	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth				Trinity	Direct Reuse	2,600	High	$2,909,000	$344	Low	Low	Low	Consistent	Consistent
Fort Worth				Trinity	Water Treatment Plant Expansions in 2000	0	High	$27,300,000	$170	Low	Low	Low	Consistent	Consistent
Fort Worth				Trinity	Water Treatment Plant Expansions in 2010	0	High	$82,096,000	$188	Low	Low	Low	Consistent	Consistent
Fort Worth				Trinity	Water Treatment Plant Expansions in 2030	0	High	$52,113,000	$194	Low	Low	Low	Consistent	Consistent
Fort Worth				Trinity	Water Treatment Plant Expansions in 2050	0	High	$59,966,000	$237	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Purchase water from TRWD	42,808	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority				Trinity	Water Treatment Plant Expansion Phase I	0	High	$17,595,000	$233	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Water Treatment Plant Expansion Phase II	0	High	$17,595,000	$233	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Water Treatment Plant Expansion Phase III	0	High	$17,595,000	$233	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Ellis County Project	0	High	$22,958,000	$316	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Las Colinas Direct Reuse	7,000	Moderate	$5,493,000	$241	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Joe Pool Indirect Reuse - Phase I	14,000	Moderate	$5,875,000	$220	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Joe Pool Indirect Reuse - Phase II	14,000	Moderate	$6,031,000	$222	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Mountain Creek Indirect Reuse	3,000	Moderate	$2,015,000	$252	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Ellis County Direct Reuse (Ten Mile Creek)	20,000	Moderate	$22,958,000	$316	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Denton County Indirect Reuse	5,000	Moderate	$2,653,000	$232	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Tarrant County Indirect Reuse	2,500	Moderate	$1,326,000	$232	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Grapevine Lake Indirect Reuse Phase I	8,000	Moderate	$1,000,000	$172	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Grapevine Lake Indirect Reuse Phase II	8,000	Moderate	$1,304,000	$163	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Lake Chapman	15,000	High	$0	$0	Low	Low	Low	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Upper Trinity Regional Water District					Buy Lake Chapman water in 2050 from City of Commerce	3,700	High	$0	$0	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Indirect reuse of Chapman water	14,200	High	$1,000,000	$168	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Expand water treatment plant & transmission capacity by 2010	0	High	$79,479,000	$522	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Expand water treatment plant & transmission capacity by 2020	0	High	$123,776,000	$314	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Expand water treatment plant & transmission capacity by 2030	0	High	$99,969,000	$369	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Expand water treatment plant & transmission capacity by 2040	0	High	$99,969,000	$369	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Expand water treatment plant & transmission capacity by 2050	0	High	$75,964,000	$609	Low	Low	Low	Consistent	Consistent
Collin County														
North Texas Municipal Water District	Allen		Collin	Trinity	Continue purchasing water from NTMWD	21,407	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Blue Ridge		Collin	Trinity	Add new wells & overdraft Woodbine Aquifer thru 2010.	1	Low	$260,000	$344	Low	Low	Low	Consistent	Consistent
	Blue Ridge		Collin	Trinity	Reallocate Woodbine Aquifer (new well)	28	Moderate	$0	$344	Low	Low	Low	Consistent	Consistent
	Celina		Collin	Trinity	Overdraft Trinity Aquife rin 2000	108	Low	$0	$71	Low	Low	Low	Consistent	Consistent
	Celina		Collin	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	1,456	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Celina		Collin	Trinity	Begin purchasing water from UTRWD (reuse)	1,386	High	$0	$0	Moderate	Low	Low	Consistent	Consistent
Dallas	Celina		Collin	Trinity	Begin purchasing water from UTRWD (DWU)	6,276	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Dallas	P	Collin	Trinity	Continue purchasing water from DWU	2,880	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Fairview		Collin	Trinity	Continue purchasing water from NTMWD	1,155	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Farmersville		Collin	Trinity	Continue purchasing water from NTMWD	764	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
North Texas Municipal Water District	Frisco	P	Collin	Trinity	Continue purchasing water from NTMWD	53,646	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Garland	P	Collin	Trinity	Continue purchasing water from NTMWD	5	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Lucas		Collin	Trinity	Continue purchasing water from NTMWD	984	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	McKinney		Collin	Trinity	Continue purchasing water from NTMWD	54,674	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Melissa		Collin	Trinity	Continue purchasing water from Norht Collins WSC (NTMWD)	91	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Murphy		Collin	Trinity	Continue purchasing water from NTMWD	2,392	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	New Hope		Collin	Trinity	Continue purchasing water from North Collins WSC (NTMWD)	59	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Parker		Collin	Trinity	Continue purchasing water from NTMWD	6,827	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Plano	P	Collin	Trinity	Continue purchasing water from NTMWD	50,335	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Princeton		Collin	Trinity	Continue purchasing water from NTMWD	742	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Prosper		Collin	Trinity	Overdraft Woodbine Aquifer in 2000	188	Low	$0	$71	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District	Prosper		Collin	Trinity	Begin purchasing water from NTMWD	3,178	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Prosper		Collin	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	921	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Prosper		Collin	Trinity	Begin purchasing water from UTRWD (reuse)	910	High	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas	Prosper		Collin	Trinity	Begin purchasing water from UTRWD (DWU)	2,022	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Richardson	P	Collin	Trinity	Continue purchasing water from NTMWD	3,280	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Royse City	P	Collin	Sabine	Continue purchasing water from NTMWD	123	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
North Texas Municipal Water District	Sachse	P	Collin	Trinity	Continue purchasing water from NTMWD	102	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Wylie	P	Collin	Trinity	Continue purchasing water from NTMWD	6,936	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	County-Other		Collin	Sabine	Continue purchasing water from NTMWD	1,185	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	County-Other		Collin	Trinity	Continue purchasing water from NTMWD	19,553	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Manufacturing		Collin	Trinity	Continue purchasing water from NTMWD	2,458	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Steam Electric Power		Collin	Trinity	Continue purchasing water from NTMWD	8,437	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Steam Electric Power		Collin	Trinity	NTMWD Reuse	7,200	High	$14,111,000	$342	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Cooke County														
	Gainesville		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	942	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Gainesville		Cooke	Trinity	1 MGD pipeline from Moss Lake Phase I	561	High	$2,566,000	$976	Low	Low	Low	Consistent	Consistent
	Gainesville		Cooke	Trinity	1 MGD pipeline from Moss Lake Phase II	561	High	$1,371,000	$789	Low	Low	Low	Consistent	Consistent
	Gainesville		Cooke	Trinity	Parallel pipeline for Cooke County Water Supply Project	2,602	High	$26,785,000	$964	Low	Low	Low	Consistent	Consistent
	Lindsay		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	28	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Lindsay		Cooke	Trinity	Cooke County Water Supply Project	97	High	$0	$1,209	Low	Low	Low	Consistent	Consis tent
	Muenster		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	90	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Muenster		Cooke	Trinity	Lake Muenster	446	High	$11,023,000	$1,807	Low-Moderate	Low	Low	Consistent	Consistent
	Valley View		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	30	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Valley View		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (new wells)	24	Low	$160,000	$581	Low	Low	Low	Consistent	Consistent
	Valley View		Cooke	Trinity	Reallocate Trinity Aquifer (existing wells)	30	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent
	Valley View		Cooke	Trinity	Reallocate Trinity Aquifer (new well)	48	Moderate	$0	$581	Low	Low	Low	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	Valley View		Cooke	Trinity	Purchase water from UTRWD (Lake Chapman)	57	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Valley View		Cooke	Trinity	Purchase water from UTRWD (reuse)	56	High	$0	$0	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Red	Overdraft Trinity Aquifer in Red Basin in 2000 (existing wells)	86	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Red	Overdraft Trinity Aquifer in Red Basin in 2000 (new wells)	24	Low	$318,000	$1,296	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Red	Reallocate Trinity Aquifer in Red Basin (existing wells)	86	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Red	Reallocate Trinity Aquifer in Red Basin (new well)	24	Moderate	$0	$1,296	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Overdraft Trinity Aquifer in Trinity Basin in 2000 (existing wells)	631	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Reallocate Trinity Aquifer in Trinity Basin (existing wells)	503	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Add new well in Woodbine Aquifer in Trinity Basin	141	Moderate	$1,186,000	$734	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Cooke County Water Supply Project	558	High	$0	$1,209	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Purchase water from UTRWD (Lake Chapman)	714	High	$0	$0	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Purchase water from UTRWD (Reuse)	544	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Manufacturing		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	147	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Manufacturing		Cooke	Trinity	Moss Lake	260	High	$0	$1,209	Low	Low	Low	Consistent	Consistent
	Manufacturing		Cooke	Trinity	Muenster Lake	204	High	$0	$0	Low-Moderate	Low	Low	Consistent	Consistent
	Mining		Cooke	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	89	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Irrigation		Cooke	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	39	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Irrigation		Cooke	Red	Reallocate Trinity Aquifer (existing wells)	44	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent
	Livestock		Cooke	Red	Overdraft Trinity Aquifer in Red Basinin 2000 (existing wells)	105	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Livestock		Cooke	Red	Reallocate Trinity Aquifer in Red Basin (existing wells)	146	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent
	Livestock		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	270	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Livestock		Cooke	Trinity	Reallocate Trinity Aquifer in Trinity Basin (existing wells)	348	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	Livestock		Cooke	Trinity	Overdraft Trinity Aquifer in Trinity Basin in 2000 (new well)	8	Moderate	$157,000	$1,627	Low	Low	Low	Consistent	Consistent
	Livestock		Cooke	Trinity	Reallocate Trinity Aquifer in Trinity Basin (new well)	8	Moderate	$0	$1,627	Low	Low	Low	Consistent	Consistent
Dallas County														
Dallas	Addison		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Addison		Dallas	Trinity	Continue purchasing water from DWU	15,291	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Balch Springs		Dallas	Trinity	Renew DWU Contract with Dallas County WCID #6	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Balch Springs		Dallas	Trinity	Continue purchasing water from Dallas County WCID #6 (DWU)	4,638	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Carrollton	P	Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Carrollton	P	Dallas	Trinity	Continue purchasing water from DWU	18,549	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Cedar Hill	P	Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Cedar Hill	P	Dallas	Trinity	Continue purchasing water from DWU	19,836	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Cockrell Hill		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Cockrell Hill		Dallas	Trinity	Continue purchasing water from DWU	891	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Combine	P	Dallas	Trinity	Continue purchasing water from Combine WSC (DWU)	34	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Coppell		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Coppell		Dallas	Trinity	Continue purchasing water from DWU	18,326	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Dallas	P	Dallas	Trinity	Continue purchasing water from DWU	69,400	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	De Soto		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	De Soto		Dallas	Trinity	Continue purchasing water from DWU	20,208	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Duncanville		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Duncanville		Dallas	Trinity	Continue purchasing water from DWU	11,803	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Farmers Branch		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent

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Dallas	Farmers Branch		Dallas	Trinity	Continue purchasing water from DWU	17,704	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Garland	P	Dallas	Trinity	Continue purchasing water from NTMWD	23,412	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Dallas	Glenn Heights	P	Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Glenn Heights	P	Dallas	Trinity	Continue purchasing water from DWU	1,553	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Grand Prairie	P	Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Grand Prairie	P	Dallas	Trinity	Continue purchasing water from DWU	19,813	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Grapevine	P	Dallas	Trinity	Begin purchasing water from DWU	10	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Grapevine	P	Dallas	Trinity	Direct Reuse	10	High	$0	$0	Moderate	Low	Low	Consistent	Consistent
Dallas	Hutchins		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Hutchins		Dallas	Trinity	Continue purchasing water from DWU	2,385	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Irving		Dallas	Trinity	Lake Chapman	50,200	High	$97,500,000	$147	Low	Low	Low	Consistent	Consistent
	Irving		Dallas	Trinity	Indirect Reuse (alternative after 2030)	24,000	Moderate	$29,076,000	$292	Low	Low	Low	Consistent	Consistent
	Irving		Dallas	Trinity	Participant in Marvin Nichols I Reservoir (Phase I)	20,000	High	$48,904,000	#######	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Irving		Dallas	Trinity	Participant in Marvin Nichols I Reservoir (Phase II)	5,000	High	$29,152,000	#######	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Irving		Dallas	Trinity	Continue purchasing water from DWU	5,931	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Irving		Dallas	Trinity	Purchase water from Oklahoma (alternative strategy)	25,000	High	$112,974,000	#######	Low	Low	Low	Consistent	Consistent
Dallas	Lancaster		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lancaster		Dallas	Trinity	Continue purchasing water from DWU	6,599	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lewisville	P	Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lewisville	P	Dallas	Trinity	Continue purchasing water from DWU	599	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Mesquite		Dallas	Trinity	Continue purchasing water from NTMWD	23,011	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Dallas	Ovilla	P	Dallas	Trinity	Renew DWU Contract with Cedar Hill	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Ovilla	P	Dallas	Trinity	Continue purchasing water from Cedar Hill (DWU)	143	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent

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North Texas Municipal Water District	Richardson	P	Dallas	Trinity	Continue purchasing water from NTMWD	18,190	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Rowlett	P	Dallas	Trinity	Continue purchasing water from NTMWD	8,870	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Sachse	P	Dallas	Trinity	Continue purchasing water from NTMWD	3,128	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Dallas	Seagoville		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Seagoville		Dallas	Trinity	Continue purchasing water from DWU	4,794	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Sunnyvale		Dallas	Trinity	Continue purchasing water from NTMWD	1,465	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Wilmer		Dallas	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	136	Low	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas	Wilmer		Dallas	Trinity	Begin purchasing water from DWU	376	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	County-Other		Dallas	Trinity	Continue purchasing water from DWU	7,100	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	County-Other		Dallas	Trinity	Increase supply from DWU	31,000	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	County-Other		Dallas	Trinity	New Dallas County (Marvin Nichols I -Phase I)	12,000	High	$80,646,000	$374	High	Low	Low	Consistent	Consistent
	County-Other		Dallas	Trinity	New Dallas County (Marvin Nichols I - Phase II)	27,000	High	$49,191,000	$255	Low	Low	Low	Consistent	Consistent
Trinity River Authority	County-Other		Dallas	Trinity	TRA/Las Colinas Direct Reuse	7,000	High	$5,493,000	$241	Low	Low	Low	Consistent	Consistent
Trinity River Authority	County-Other		Dallas	Trinity	TRA Reuse - Phase I (Joe Pool) (Indirect)	14,000	High	$51,765,000	$291	Low	Low	Low	Consistent	Consistent
Trinity River Authority	County-Other		Dallas	Trinity	TRA Reuse - Phase II (Joe Pool) (Indirect)	14,000	High	$41,213,000	$236	Low	Low	Low	Consistent	Consistent
Trinity River Authority	County-Other		Dallas	Trinity	TRA Reuse - Phase I (Grapevine) (Indirect)	8,000	High	$38,701,000	$377	Low	Low	Low	Consistent	Consistent
Trinity River Authority	County-Other		Dallas	Trinity	TRA Reuse - Phase II (Grapevine) (Indirect)	8,000	High	$29,967,000	$298	Low	Low	Low	Consistent	Consistent
	County-Other		Dallas	Trinity	New water treatment plant (Dallas County Other)	0	High	$34,980,000	$263	Low	Low	Low	Consistent	Consistent
	County-Other		Dallas	Trinity	Expand water treatment plant (Dallas County Other)	0	High	$44,974,000	$198	Low	Low	Low	Consistent	Consistent
Dallas	Manufacturing		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Manufacturing		Dallas	Trinity	Continue purchasing water from DWU	12,644	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Manufacturing		Dallas	Trinity	Irving (DWU)	350	High	$0	$0	See Irving and Dallas above	See Irving and Dallas above	See Irving and Dallas above	Consistent	Consistent

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	Manufacturing		Dallas	Trinity	Irving (Chapman)	2,925	High	$0	$0	See Irving above	See Irving above	See Irving above	Consistent	Consistent
North Texas Municipal Water District	Manufacturing		Dallas	Trinity	Continue purchasing water from NTMWD	1,935	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Dallas	Steam Electric Power		Dallas	Trinity	Continue purchasing water from DWU	3,390	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Steam Electric Power		Dallas	Trinity	Renew DWU Contract for TXU's Northlake Plant	9,550	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Steam Electric Power		Dallas	Trinity	Renew DWU contract for TXU's Hubbard Plant	3,000	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Steam Electric Power		Dallas	Trinity	Continue purchasing water from NTMWD	186	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Trinity River Authority	Steam Electric Power		Dallas	Trinity	TRA/Mountain Creek Reuse (Indirect)	3,000	High	$6,808,000	$245	Low	Low	Low	Consistent	Consistent
	Mining		Dallas	Trinity	Add new wells & overdraft Trinity Aquifer thru 2010.	1,859	Low	$1,372,000	$299	Low	Low	Low	Consistent	Consistent
Dallas	Mining		Dallas	Trinity	Begin purchasing water from DWU	5,580	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Denton County														
	Argyle		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	483	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Argyle		Denton	Trinity	Purchase water from UTRWD (reuse)	477	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Argyle		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Argyle		Denton	Trinity	Continue purchasing water from UTRWD (DWU)	4,465	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Aubrey		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	205	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Aubrey		Denton	Trinity	Purchase water from UTRWD (reuse)	195	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Aubrey		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Aubrey		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	928	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Bartonville		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Bartonville		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	348	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Bartonville		Denton	Trinity	Purchase water from UTRWD (reuse)	344	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Bartonville		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	3,003	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent

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Dallas	Carrollton	P	Denton	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Carrollton	P	Denton	Trinity	Continue purchasing water from DWU	17,725	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Copper Canyon		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Copper Canyon		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	216	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Copper Canyon		Denton	Trinity	Purchase water from UTRWD (reuse)	214	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Copper Canyon		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	1,682	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Corinth		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	1,509	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Corinth		Denton	Trinity	Purchase water from UTRWD (reuse)	1,433	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Corinth		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Corinth		Denton	Trinity	Continue purchasing water from UTRWD (DWU)	4,862	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Crossroads		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	494	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Crossroads		Denton	Trinity	Purchase water from UTRWD (reuse)	469	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Crossroads		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Crossroads		Denton	Trinity	(*) Continue purchasing water from Mustang WSC (UTRWD from DWU)	2,242	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Dallas	P	Denton	Trinity	Continue purchasing water from DWU	2,114	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Denton		Denton	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Denton		Denton	Trinity	Continue purchasing water from DWU	39,512	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Denton		Denton	Trinity	Expand water treatment plant in 2000	0	High	$29,983,000	$276	Low	Low	Low	Consistent	Consistent
	Denton		Denton	Trinity	Expand water treatment plant in 2020	0	High	$29,983,000	$211	Low	Low	Low	Consistent	Consistent
	Denton		Denton	Trinity	Expand water treatment plant in 2040	0	High	$29,983,000	$211	Low	Low	Low	Consistent	Consistent
Dallas	Double Oak		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Double Oak		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	194	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Double Oak		Denton	Trinity	Purchase water from UTRWD (reuse)	192	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent

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Dallas	Double Oak		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	1,045	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Flower Mound		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Flower Mound		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	3,469	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Flower Mound		Denton	Trinity	Purchase water from UTRWD (reuse)	3,430	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Flower Mound		Denton	Trinity	Continue purchasing water from UTRWD (DWU)	28,951	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Flower Mound		Denton	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Flower Mound		Denton	Trinity	Continue purchasing water from DWU	8,968	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Frisco	P	Denton	Trinity	Continue purchasing water from NTMWD	459	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Hebron		Denton	Trinity	Overdraft Woodbine Aquifer in 2000	200	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Hebron		Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	558	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Hebron		Denton	Trinity	Begin purchasing water from UTRWD (reuse)	552	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Hebron		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	590	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Hickory Creek		Denton	Trinity	Purchase water from Lake Cities MUD (UTRWD Lake Chapman)	279	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Hickory Creek		Denton	Trinity	Purchase water from UTRWD (reuse)	265	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Hickory Creek		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Hickory Creek		Denton	Trinity	Continue purchasing water from Lake Cities MUA (UTRWD from DWU)	1,163	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Highland Village		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	998	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Highland Village		Denton	Trinity	Purchase water from UTRWD (reuse)	986	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Highland Village		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Highland Village		Denton	Trinity	Continue purchasing water from UTRWD (DWU)	2,528	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Justin		Denton	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	180	Low	$0	$79	Low	Low	Low	Consistent	Consistent
	Justin		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	516	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent

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	Justin		Denton	Trinity	Purchase water from UTRWD (reuse)	510	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Justin		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	2,798	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Krugerville		Denton	Trinity	Add new wells & overdraft Trinity Aquifer in 2000.	77	Low	$547,000	$217	Low	Low	Low	Consistent	Consistent
	Krugerville		Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	223	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Krugerville		Denton	Trinity	Begin purchasing water from UTRWD (reuse)	220	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Krugerville		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	274	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Krum		Denton	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	264	Low	$0	$79	Low	Low	Low	Consistent	Consistent
	Krum		Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	694	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Krum		Denton	Trinity	Begin purchasing water from UTRWD (reuse)	686	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Krum		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	882	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Lake Dallas		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	347	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Lake Dallas		Denton	Trinity	Purchase water from UTRWD (reuse)	339	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Lake Dallas		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lake Dallas		Denton	Trinity	Continue purchasing water from Lake Cities MUA (UTRWD from DWU)	1,252	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Lewisville	P	Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	4,954	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Lewisville	P	Denton	Trinity	Begin purchasing water from UTRWD (reuse)	4,712	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Lewisville	P	Denton	Trinity	Begin purchasing water from UTRWD (DWU)	10,765	High	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas	Lewisville	P	Denton	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lewisville	P	Denton	Trinity	Continue purchasing water from DWU	28,025	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Lincoln Park		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	64	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Lincoln Park		Denton	Trinity	Purchase water from UTRWD (reuse)	61	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Lincoln Park		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lincoln Park		Denton	Trinity	(*) Continue purchasing water from Mustange WSC (UTRWD from DWU)	289	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent

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	Little Elm		Denton	Trinity	Add new well & overdraft Woodbine Aquifer in 2000.	234	High	$1,309,000	$102	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District	Little Elm		Denton	Trinity	Begin purchasing water from NTMWD	2,180	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Fort Worth	Northlake		Denton	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Northlake		Denton	Trinity	Continue purchasing water from Fort Worth (TRWD)	7,070	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
	Northlake		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	467	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Northlake		Denton	Trinity	Purchase water from UTRWD (reuse)	445	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Northlake		Denton	Trinity	(*) Purchase water from UTRWD (DWU)	2,761	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Oak Point		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	326	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Oak Point		Denton	Trinity	Purchase water from UTRWD (reuse)	310	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Oak Point		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Oak Point		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	1,383	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Pilot Point		Denton	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	279	Low	$0	$79	Low	Low	Low	Consistent	Consistent
	Pilot Point		Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	846	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Pilot Point		Denton	Trinity	Begin purchasing water from UTRWD (reuse)	837	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Pilot Point		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	1,107	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Plano	P	Denton	Trinity	Continue purchasing water from NTMWD	32	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Ponder		Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	350	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Ponder		Denton	Trinity	Begin purchasing water from UTRWD (reuse)	333	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Ponder		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	1,497	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Fort Worth	Roanoke		Denton	Trinity	Renew Fort Worth Contract with Trophy Club #1	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Roanoke		Denton	Trinity	Continue purchasing water from Trophy Club #1 (Fort Worth from TRWD)	1,291	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent

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	Sanger		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	1,508	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Sanger		Denton	Trinity	Purchase water from UTRWD (reuse)	1,435	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Sanger		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Sanger		Denton	Trinity	(*) Continue purchasing water from Denton (UTRWD).	2,878	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Shady Shores		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	146	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Shady Shores		Denton	Trinity	Purchase water from UTRWD (reuse)	139	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Shady Shores		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Shady Shores		Denton	Trinity	Continue purchasing water from Lake Cities MUA (UTRWD from DWU)	543	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Fort Worth	Southlake	P	Denton	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Southlake	P	Denton	Trinity	Continue purchasing water from Fort Worth (TRWD)	1,076	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Dallas	The Colony		Denton	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	The Colony		Denton	Trinity	Continue purchasing water from DWU	11,696	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Fort Worth	Trophy Club		Denton	Trinity	Renew Fort Worth Contract with Trophy Club #1	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Trophy Club		Denton	Trinity	Continue purchasing water from Trophy Club #1 (Fort Worth from TRWD)	9,092	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	County-Other		Denton	Trinity	TRA Indirect Reuse (Denton Creek)	5,000	High	$2,653,000	#######	See TRA above	See TRA above	See TRA above	Consistent	Consistent
Fort Worth	County-Other		Denton	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	County-Other		Denton	Trinity	Continue purchasing water from Fort Worth (TRWD)	5,729	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
	County-Other		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	4,722	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	County-Other		Denton	Trinity	Purchase water from UTRWD (reuse)	4,488	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	County-Other		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent

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Dallas	County-Other		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	21,454	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Manufacturing		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	275	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Manufacturing		Denton	Trinity	Purchase water from UTRWD (reuse)	261	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Manufacturing		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Manufacturing		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	1,244	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Mining		Denton	Trinity	Increase Other Local Supply	16	Moderate	$0	$200	Low	Low	Low	Consistent	Consistent
	Steam Electric Power		Denton	Trinity	Indirect Reuse	5,500	High	$9,315,000	$319	Low	Low	Low	Consistent	Consistent
Ellis County														
Dallas	Cedar Hill	P	Ellis	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Cedar Hill	P	Ellis	Trinity	Continue purchasing water from DWU	53	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Tarrant Regional Water District	Ennis		Ellis	Trinity	Begin purchasing water from TRA (TRWD)	4,204	High	$9,182,000	$977	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Ferris		Ellis	Trinity	TRA Ellis County Water Supply Project - Easterly Subsystem	807	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Dallas	Glenn Heights	P	Ellis	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Glenn Heights	P	Ellis	Trinity	Continue purchasing water from DWU	311	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Grand Prairie	P	Ellis	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Grand Prairie	P	Ellis	Trinity	Continue purchasing water from DWU	43	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Italy		Ellis	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	37	High	$0	$82	Low	Low	Low	Consistent	Consistent
Trinity River Authority	Italy		Ellis	Trinity	TRA Ellis County Water Supply Project - Southerly Subsystem	579	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Mansfield	P	Ellis	Trinity	Continue purchasing water from TRWD	127	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Maypearl		Ellis	Trinity	Add new well & overdraft Woodbine Aquifer in 2000 (new well)	81	Low	$228,000	$309	Low	Low	Low	Consistent	Consistent
Trinity River Authority	Maypearl		Ellis	Trinity	TRA Ellis County Water Supply Project - Westerly Subsystem	415	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Midlothian		Ellis	Trinity	TRA Ellis County Water Supply Project	1,825	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent

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	Midlothian		Ellis	Trinity	Midlothian pipeline expansion	0	High	$847,000	$404	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Midlothian		Ellis	Trinity	Midlothian WTP expansion	0	High	$5,203,000	$566	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Milford		Ellis	Trinity	Add new well and overdraft Woodbine Aquifer in 2000	81	High	$228,000	$309	Low	Low	Low	Consistent	Consistent
	Milford		Ellis	Trinity	Continue to obtain surface water from Files Valley WSC (Aquilla Creek)	95	High	$0	$489	Low	Low	Low	Consistent	Consistent
Dallas	Oak Leaf	P	Ellis	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Oak Leaf	P	Ellis	Trinity	Continue purchasing water from DWU	339	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Ovilla	P	Ellis	Trinity	Renew DWU Contract with Cedar Hill	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Ovilla	P	Ellis	Trinity	Continue purchasing water from Cedar Hill (DWU)	1,144	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Palmer		Ellis	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	83	Low	$0	$70	Low	Low	Low	Consistent	Consistent
Trinity River Authority	Palmer		Ellis	Trinity	TRA Ellis County Water Supply Project - Easterly Subsystem	390	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Pecan Hill		Ellis	Trinity	New contract with Rockett SUD	59	High	$0	$489	Low	Low	Low	Consistent	Consistent
	Red Oak		Ellis	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	196	Low	$0	$70	Low	Low	Low	Consistent	Consistent
Trinity River Authority	Red Oak		Ellis	Trinity	TRA Ellis County Water Supply Project - Easterly Subsystem	2,108	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Waxahachie		Ellis	Trinity	TRA Ellis County Water Supply Project - Raw Water Subsystem	5,219	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	County-Other		Ellis	Trinity	TRA Ellis County Water Supply Project	8,687	High	$65,945,000	$655	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Manufacturing		Ellis	Trinity	Ellis County Water Supply Project	146	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Manufacturing		Ellis	Trinity	Ellis County Water Supply Project	10	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Manufacturing		Ellis	Trinity	Ellis County Water Supply Project	1,152	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Manufacturing		Ellis	Trinity	Ellis County Water Supply Project	359	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Manufacturing		Ellis	Trinity	Ellis County Water Supply Project	89	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Steam Electric Power		Ellis	Trinity	Existing 3 MGD contract with Ennis; supplied by wastewater (indirect)	2,463	High	$22,958,000	$316	Moderate	Low	Low	Consistent	Consistent

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	Steam Electric Power		Ellis	Trinity	Existing 3 MGD contract with Ennis; supplied by Lake Bardwell	1,541	High	$0	$490	Moderate	Low	Low	Consistent	Consistent
	Steam Electric Power		Ellis	Trinity	Joe Pool Lake Indirect Reuse	34	High	$0	$0	Low	Low	Low	Consistent	Consistent
Trinity River Authority	Steam Electric Power		Ellis	Trinity	Reuse from TRA Ten Mile Creek plant	20,000	High	$22,958,000	$316	Low	Low	Low	Consistent	Consistent
Fannin County														
	Bonham		Fannin	Red	Fannin County Water Supply Project	500	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Honey Grove		Fannin	Sulphur	Fannin County Water Supply Project	27	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Honey Grove		Fannin	Red	Fannin County Water Supply Project	501	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Leonard		Fannin	Sulphur	Fannin County Water Supply Project	37	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Leonard		Fannin	Trinity	Fannin County Water Supply Project	328	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Savoy		Fannin	Red	Fannin County Water Supply Project	126	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Trenton		Fannin	Trinity	Fannin County Water Supply Project	175	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	County-Other		Fannin	Red	Fannin County Water Supply Project	1,836	High	$52,358,000	$1,200	Moderate	Low	Low	Consistent	Consistent
	County-Other		Fannin	Sulphur	Fannin County Water Supply Project	561	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	County-Other		Fannin	Trinity	Fannin County Water Supply Project	64	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	County-Other		Fannin	Red	Add new well in Trinity Aquifer	72	High	$252,000	$346	Low	Low	Low	Consistent	Consistent
	County-Other		Fannin	Red	Add new well in Woodbine Aquifer	13	High	$243,000	$925	Low	Low	Low	Consistent	Consistent
	County-Other		Fannin	Red	Upper Bois d'Arc Creek Reservoir (Alternative after 2030)	26,904	High	$89,654,000	$324	Moderate	Low	Low	Not Consistent	Consistent
	County-Other		Fannin	Red	Ralph Hall Reservoir (Alternative after 2030)	30,500	Moderate	$155,530,000	$451	Moderate	Low	Low	Not Consistent	Not Consistent
Freestone County														
	Fairfield		Freestone	Trinity	Add new well in Carrizo-Wilcox Aquifer	95	High	$178,000	$192	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Fairfield		Freestone	Trinity	Begin purchasing water from TRWD	128	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent

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Trinity River Authority	Fairfield		Freestone	Trinity	Begin purchasing water from TRA (TRWD)	128	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Wortham		Freestone	Trinity	Purchase water from Mexia	335	High	$0	$489	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Wortham		Freestone	Trinity	Begin purchasing water from TRWD	531	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Freestone	Trinity	Calpine contract with TRWD	5,602	High	$4,989,000	$332	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Freestone	Trinity	Purchase additional water from TRWD (Plant 1)	5,109	High	$4,914,000	$338	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Freestone	Trinity	Purchase additional water from TRWD (Plant 2)	5,109	High	$4,914,000	$338	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Grayson County														
	Bells		Grayson	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	24	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Bells		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	24	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Bells		Grayson	Red	Grayson County Water Supply Project	135	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Collinsville		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	52	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Collinsville		Grayson	Trinity	Grayson County Water Supply Project	123	Low	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Gunter		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	61	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Gunter		Grayson	Trinity	Grayson County Water Supply Project	164	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Howe		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	142	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Howe		Grayson	Red	Grayson County Water Supply Project	238	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Howe		Grayson	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	29	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Howe		Grayson	Trinity	Grayson County Water Supply Project	60	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Luella		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	57	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Luella		Grayson	Red	Add new well & overdraft Woodbine Aquifer in 2000	8	Low	$152,000	$1,563	Low	Low	Low	Consistent	Consistent
	Luella		Grayson	Red	Grayson County Water Supply Project	82	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Pottsboro		Grayson	Red	Pottsboro acquires water right in Lake Texoma & Denison provides treatment.	3,000	High	$990,000	$521	Low	Low	Low	Consistent	Consistent
	Pottsboro		Grayson	Red	Grayson County Water Supply Project	198	High	$0	$1,687	Low	Low	Low	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	Southmayd		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	35	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Southmayd		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (new well)	128	Low	$439,000	$349	Low	Low	Low	Consistent	Consistent
	Southmayd		Grayson	Red	Grayson County Water Supply Project	143	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Tioga		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	23	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Tioga		Grayson	Trinity	Grayson County Water Supply Project	86	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Tom Bean		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	110	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Tom Bean		Grayson	Red	Grayson County Water Supply Project	150	Low	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Van Alstyne		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	58	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Van Alstyne		Grayson	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	34	High	$0	$87	Low	Low	Low	Consistent	Consistent
	Van Alstyne		Grayson	Trinity	Add new well & overdraft Woodbine Aquifer in 2000	40	Low	$215,000	$963	Low	Low	Low	Consistent	Consistent
	Van Alstyne		Grayson	Trinity	Grayson County Water Supply Project	1,132	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Whitesboro		Grayson	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	511	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Whitesboro		Grayson	Red	Grayson County Water Supply Project	593	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Whitesboro		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	14	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Whitesboro		Grayson	Trinity	Grayson County Water Supply Project	25	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Whitewright		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	138	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Whitewright		Grayson	Red	Reallocate Woodbine Aquifer (existing wells)	67	Moderate	$0	$87	Low	Low	Low	Consistent	Consistent
	Whitewright		Grayson	Red	Reallocate Trinity Aquifer (new well)	121	Moderate	$577,000	$524	Low	Low	Low	Consistent	Consistent
	Whitewright		Grayson	Red	Grayson County Water Supply Project	211	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	County-Other		Grayson	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	795	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	County-Other		Grayson	Red	Overdraft Trinity Aquifer in 2000 (new well)	805	Low	$835,000	$280	Low	Low	Low	Consistent	Consistent
	County-Other		Grayson	Red	Reallocate Trinity Aquifer (new well)	805	Moderate	$0	$280	Low	Low	Low	Consistent	Consistent
	County-Other		Grayson	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	356	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	County-Other		Grayson	Red	Grayson County Water Supply Project	970	High	$94,316,000	$1,687	Low	Low	Low	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	County-Other		Grayson	Trinity	Grayson County Water Supply Project	981	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Manufacturing		Grayson	Red	Purchase from Sherman	3,795	High	$0	$489	Low	Low	Low	Consistent	Consistent
	Manufacturing		Grayson	Trinity	Purchase from Sherman	8	High	$0	$489	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	101	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Overdraft Trinity Aquifer in 2000 (new well)	242	Low	$519,000	$249	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Reallocate Trinity Aquifer (existing wells)	57	Moderate	$0	$94	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Add new well in Trinity Aquifer & reallocate (new wells)	483	Low	$513,000	$249	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Add new well & overdraft Woodbine Aquifer in 2000 (new well)	322	Low	$528,000	$232	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Reallocate Woodbine Aquifer (new well)	322	Moderate	$0	$232	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	208	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (new well)	81	Low	$214,000	$266	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Reallocate Trinity Aquifer (existing wells)	125	Moderate	$0	$94	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Reallocate Trinity Aquifer (new well)	81	Moderate	$0	$266	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	145	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Reallocate Woodbine Aquifer (existing wells)	130	Moderate	$0	$87	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Indirect Reuse from Denton WWTP	384	Moderate	$0	$163	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Indirect Reuse from Sherman WWTP	199	Moderate	$0	$163	Low	Low	Low	Consistent	Consistent
	Irrigation		Grayson	Trinity	Reallocate Trinity Aquifer (existing wells)	542	High	$0	$94	Low	Low	Low	Consistent	Consistent
Henderson County														
	Malakoff		Henderson	Trinity	Add new well in Carrizo-Wilcox Aquifer & overdraft in 2000	9	High	$281,000	$145	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Malakoff		Henderson	Trinity	Pipeline to TRWD to begin purchasing water from TRWD (potential contract 560 ac-ft/yr)	563	High	$7,809,000	$1,435	Low	Low	Low	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Jack County														
	Bryson		Jack	Brazos	Pipeline to connect Bryson to Lake Jacksboro (Option after 2030)	250	High	$2,522,000	#######	Low	Low	Low	Consistent	Consistent
Kaufman County														
Dallas	Combine	P	Kaufman	Trinity	Continue purchasing water from Combine WSC (DWU)	119	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Crandall		Kaufman	Trinity	Continue purchasing water from Kaufman Four One (NTMWD)	566	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Dallas	Dallas	P	Kaufman	Trinity	Continue purchasing water from DWU	2	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Forney		Kaufman	Trinity	Continue purchasing water from NTMWD	4,626	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Kaufman		Kaufman	Trinity	Continue purchasing water from NTMWD	1,170	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Kemp		Kaufman	Trinity	Water Treatment Plant Expansion in 2010	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District	Oak Grove		Kaufman	Trinity	Continue purchasing water from Kaufman (NTMWD)	77	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Terrell		Kaufman	Trinity	Water Treatment Plant Expansion in 2010	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Terrell		Kaufman	Trinity	Water Treatment Plant Expansion in 2020	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Terrell		Kaufman	Trinity	Water Treatment Plant Expansion in 2050	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District	County-Other		Kaufman	Sabine	Continue purchasing water from NTMWD	109	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	County-Other		Kaufman	Trinity	Continue purchasing water from NTMWD	3,394	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	County-Other		Kaufman	Trinity	Terrell (Lake Tawakoni)	330	High	$0	$489	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District	Manufacturing		Kaufman	Trinity	Continue purchasing water from NTMWD	153	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Manufacturing		Kaufman	Trinity	Terrell (Lake Tawakoni)	75	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Steam Electric Power		Kaufman	Trinity	Reuse from Garland	15,694	High	$18,497,000	$267	Moderate	Low	Low	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	Mining		Kaufman	Trinity	Add new well & overdraft Woodbine Aquifer in 2000	21	Low	$163,000	$630	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Mining		Kaufman	Trinity	Begin purchasing water from TRWD	135	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Irrigation		Kaufman	Trinity	Additional Irrigation Local Supply	397	High	$0	$163	Low	Low	Low	Consistent	Consistent
Navarro County														
	Corsicana		Navarro	Trinity	Install pipeline from Richland-Chambers Reservoir to Corsicana after 2030	13,650	High	$12,875,000	$94	Low	Low	Low	Consistent	Consistent
	Corsicana		Navarro	Trinity	Water treatment plant expansion in 2020	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Corsicana		Navarro	Trinity	Water treatment plant expansion in 2040	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Mining		Navarro	Trinity	Add new well in Carrizo-Wilcox Aquifer	50	High	$44,000	$49	Low	Low	Low	Consistent	Consistent
	Mining		Navarro	Trinity	Add new well in Nacatoch Aquifer	50	High	$32,000	$72	Low	Low	Low	Consistent	Consistent
Parker County														
	Aledo		Parker	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	17	Low	$0	$48	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Aledo		Parker	Trinity	Begin purchasing TRWD water thru Weatherford	1,059	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Annetta		Parker	Trinity	Add new well & overdraft Other Aaquifer thru 2010.	18	Low	$374,000	$239	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Annetta		Parker	Trinity	Begin purchasing TRWD water thru Weatherford	1,157	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Azle	P	Parker	Trinity	Continue purchasing water from TRWD	159	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Briar	P	Parker	Trinity	Continue purchasing water from Community WSC (TRWD)	52	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Hudson Oaks		Parker	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	39	Low	$0	$44	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Hudson Oaks		Parker	Trinity	Begin purchasing water from TRWD	2,802	High	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Reno		Parker	Trinity	Continue purchasing water from Springtown (TRWD)	161	High	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Springtown		Parker	Trinity	Continue purchasing water from TRWD	266	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Springtown		Parker	Trinity	Water Treatment Plant Expansion in 2010	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent

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	Springtown		Parker	Trinity	Water Treatment Plant Expansion in 2030	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Weatherford		Parker	Trinity	Overdraft Lake Weatherford in 2000	1,972	Low	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Weatherford		Parker	Trinity	Construct pipeline to Lake Benbrook (TRWD) by 2010	19,938	High	$0	$0	Low-Moderate	Low	Low	Consistent	Consistent
	Weatherford		Parker	Brazos	Overdraft Lake Weatherford in 2000	93	Low	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Weatherford		Parker	Brazos	Construct pipeline to Lake Benbrook (TRWD) by 2010	1,040	High	$0	$0	Low-Moderate	Low	Low	Consistent	Consistent
	Weatherford		Parker	Trinity	Pipeline from Lake Benbrook	0	High	$9,000,000	$343	Low	Low	Low	Consistent	Consistent
	Weatherford		Parker	Trinity	Parallel Pipeline from Lake Benbrook	0	High	$13,375,000	$357	Low	Low	Low	Consistent	Consistent
	Weatherford		Parker	Trinity	Treated water transmission lines to Southest Parker County Phase I	0	High	$3,582,000	$583	Low	Low	Low	Consistent	Consistent
	Weatherford		Parker	Trinity	Treated water transmission lines to Southest Parker County Phase II	0	High	$3,582,000	$583	Low	Low	Low	Consistent	Consistent
	Weatherford		Parker	Trinity	Water Treatment Plant Expansion	0	High	$27,221,000	$368	Low	Low	Low	Consistent	Consistent
	Willow Park		Parker	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	36	Low	$0	$48	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Willow Park		Parker	Trinity	Begin purchasing TRWD water thru Weatherford	3,813	High	$0	$0	Low	Low	Low	Consistent	Consistent
	County-Other		Parker	Trinity	Add new well & overdraft Trinity Aquifer through 2010.	616	Low	$3,737,000	$239	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	County-Other		Parker	Trinity	Continue purchasing water from Walnut Creek SUD (TRWD)	4,353	High	$0	$0	Low	Low	Low	Consistent	Consistent
	County-Other		Parker	Brazos	Add new well & overdraft Trinity Aquifer through 2010.	272	Low	$935,000	$239	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	County-Other		Parker	Brazos	Continue purchasing water from Walnut Creek SUD (TRWD)	2,155	High	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Manufacturing		Parker	Trinity	Surface water from Lake Benbrook (TRWD).	259	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Manufacturing		Parker	Brazos	Add new well & overdraft Trinity Aquifer through 2010.	21	High	$49,000	$68	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Manufacturing		Parker	Brazos	Begin purchasing water from TRWD (thru Weatherford)	142	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Steam Electric Power		Parker	Trinity	Weatherford reuse (pipeline from Benbrook)	3,000	High	$1,947,000	$1,947,000	Low-Moderate	Low	Low	Consistent	Consistent
	Steam Electric Power		Parker	Trinity	Weatherford indirect reuse (pipeline from Benbrook)	3,000	High	$1,947,000	$1,947,000	Low-Moderate	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Parker	Trinity	Begin purchasing water from TRWD (thru Weatherford) (pipeline from Benbrook)	3,000	High	$5,821,000	$5,821,000	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent

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Tarrant Regional Water District	Steam Electric Power		Parker	Trinity	Begin purchasing water from TRWD (thru Weatherford) (pipeline from Benbrook)	3,000	High	$5,821,000	$5,821,000	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Mining		Parker	Trinity	Add new well & overdraft Trinity Aquifer through 2000.	15	Low	$49,000	$101	Low	Low	Low	Consistent	Consistent
	Mining		Parker	Trinity	Reallocate Trinity Aquifer (new well)	30	Moderate	$0	$101	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Mining		Parker	Trinity	Begin purchasing water from TRWD	43	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Mining		Parker	Trinity	Add diversions from Other Local Supply	40	Moderate	$0	$200	Low	Low	Low	Consistent	Consistent
	Mining		Parker	Brazos	Increase diversions from Other local Supply	2,990	Moderate	$0	$200	Low	Low	Low	Consistent	Consistent
Rockwall County														
Dallas	Dallas	P	Rockwall	Trinity	Continue purchasing water from DWU	7	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Heath		Rockwall	Trinity	Continue purchasing water from RCH WSC (thru Rockwall from NTMWD)	1,894	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Rockwall		Rockwall	Trinity	Continue purchasing water from NTMWD	15,414	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Rowlett	P	Rockwall	Trinity	Continue purchasing water from NTMWD	4,809	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Royse City	P	Rockwall	Sabine	Continue purchasing water from NTMWD	3,637	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Wylie	P	Rockwall	Trinity	Continue purchasing water from NTMWD	9	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	County-Other		Rockwall	Sabine	Increase supply from NTMWD	276	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	County-Other		Rockwall	Trinity	Increase supply from NTMWD	324	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Manufacturing		Rockwall	Trinity	Increase supply from NTMWD	4	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Steam Electric Power		Rockwall	Sabine	NTMWD inidrect reuse	6,000	High	$4,795,000	$321	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Tarrant County														

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Tarrant Regional Water District	Arlington		Tarrant	Trinity	Continue purchasing water from TRWD	23,474	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Arlington		Tarrant	Trinity	Water Treatment Plant Expansion	N/A	High	$25,665,000	$215	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Azle	P	Tarrant	Trinity	Continue purchasing water from TRWD	916	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Bedford		Tarrant	Trinity	Continue purchasing water from TRA (TRWD)	3,515	High	$0	$0	See TRA and TRWD above	See TRA and TRWD above	See TRA and TRWD above	Consistent	Consistent
	Benbrook		Tarrant	Trinity	Water Treatment Plant Expansion in 2020	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Benbrook		Tarrant	Trinity	Water Treatment Plant Expansion in 2040	0	High	$1,406,000	$446	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Blue Mound		Tarrant	Trinity	Continue purchasing water from Tecon (TRWD)	97	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Briar	P	Tarrant	Trinity	Continue purchasing water from Community WSC (TRWD)	258	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth	Burleson		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Burleson		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	892	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	Colleyville		Tarrant	Trinity	Continue purchasing water from TRA (TRWD)	9,384	High	$0	$0	See TRA and TRWD above	See TRA and TRWD above	See TRA and TRWD above	Consistent	Consistent
Fort Worth	Crowley		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Crowley		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	2,958	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Dalworthington Gard.		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Dalworthington Gard.		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	1,704	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Edgecliff		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Edgecliff		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	924	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	Euless		Tarrant	Trinity	Continue purchasing water from TRA (TRWD)	11,114	High	$0	$0	See TRA and TRWD above	See TRA and TRWD above	See TRA and TRWD above	Consistent	Consistent
Fort Worth	Everman		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Fort Worth	Everman		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	1,028	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Forest Hill		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Forest Hill		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	3,257	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Tarrant Regional Water District	Fort Worth		Tarrant	Trinity	Continue purchasing water from TRWD	43,914	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Dallas	Grand Prairie	P	Tarrant	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Grand Prairie	P	Tarrant	Trinity	Continue purchasing water from DWU	11,125	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Fort Worth	Grand Prairie	P	Tarrant	Trinity	Continue purchasing water from Fort Worth	561	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	Grapevine	P	Tarrant	Trinity	Continue purchasing water from TRA (TRWD)	1,385	High	$0	$0	See TRA and TRWD above	See TRA and TRWD above	See TRA and TRWD above	Consistent	Consistent
	Grapevine	P	Tarrant	Trinity	Direct reuse	1,495	High	$4,003,000	$331	Low-Moderate	Low	Low	Consistent	Consistent
Dallas	Grapevine	P	Tarrant	Trinity	Begin purchasing water from DWU	1,997	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Fort Worth	Haltom City		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Haltom City		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	11,439	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Haslet		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Haslet		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	700	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Hurst		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Hurst		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	11,344	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Keller		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Keller		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD). NETCREW	15,480	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	Kennedale		Tarrant	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	1,018	High	$1,319,000	$274	Low	Low	Low	Consistent	Consistent
Fort Worth	Kennedale		Tarrant	Trinity	Begin purchasing water from Fort Worth (TRWD)	2,358	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Kennedale		Tarrant	Trinity	Begin purchasing water from Arlington (Fort Worth)	2,358	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Lake Worth Village		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Lake Worth Village		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	1,404	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Tarrant Regional Water District	Mansfield	P	Tarrant	Trinity	Continue purchasing water from TRWD	4,657	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Mansfield	P	Tarrant	Trinity	Water Treatment Plant Expansion by 2010	0	High	$14,063,000	$264	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Mansfield	P	Tarrant	Trinity	Water Treatment Plant Expansion by 2040	0	High	$15,469,000	$249	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth	North Richland Hills		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	North Richland Hills		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	16,090	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	North Richland Hills		Tarrant	Trinity	Continue purchasing water from TRA (TRWD)	727	High	$0	$0	See TRA and TRWD above	See TRA and TRWD above	See TRA and TRWD above	Consistent	Consistent
	Pantego		Tarrant	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	400	Low	$0	$82	Low	Low	Low	Consistent	Consistent
Fort Worth	Pantego		Tarrant	Trinity	Begin purchasing water from Fort Worth (TRWD)	517	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Pantego		Tarrant	Trinity	Begin purchasin water from Arlington (Fort Worth)	517	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
	Pelican Bay		Tarrant	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	167	Low	$655,000	$299	Low	Low	Low	Consistent	Consistent
	Pelican Bay		Tarrant	Trinity	Reallocate Trinity Aquifer (new well)	240	Moderate	$0	$299	Low	Low	Low	Consistent	Consistent
	Pelican Bay		Tarrant	Trinity	Reallocate Trinity Aquifer (existing well)	160	Moderate	$0	$82	Low	Low	Low	Consistent	Consistent
Fort Worth	Richland Hills		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Richland Hills		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	3,634	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Tarrant Regional Water District	River Oaks		Tarrant	Trinity	Continue purchasing water from TRWD	266	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth	Saginaw		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Saginaw		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	5,230	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Sansom Park Village		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Sansom Park Village		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	857	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Southlake	P	Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Southlake	P	Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD). NETCREW	22,270	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Watauga		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Watauga		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	7,760	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Westworth Village		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Westworth Village		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	512	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	White Settlement		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	White Settlement		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	3,312	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	County-Other		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	County-Other		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	24,407	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	County-Other		Tarrant	Trinity	TRA Indirect Reuse (Denton Creek Plant)	2,500	High	$1,326,000	$1,326,000	See TRA above	See TRA above	See TRA above	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	County-Other		Tarrant	Trinity	Northeast Tarrant County Regional Water System (from Fort Worth to Keller, Roanoke, Southlake, Trophy Club, Westlake/Lake Turner MUDs)	0	High	$9,824,000	N/A	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Manufacturing		Tarrant	Trinity	Continue purchasing water from TRWD	16,980	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth	Manufacturing		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Manufacturing		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	7,297	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Tarrant	Trinity	Continue purchasing water from TRWD	3,393	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth	Steam Electric Power		Tarrant	Trinity	Fort Worth reuse	2,600	High	$2,909,000	#######	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Wise County														
	Alvord		Wise	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	14	Low	$177,000	$224	Low	Low	Low	Consistent	Consistent
	Alvord		Wise	Trinity	Reallocate Trinity Aquifer (new well)	80	Moderate	$0	$224	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Alvord		Wise	Trinity	Begin purchasing water from TRWD	73	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Aurora		Wise	Trinity	Add new well & overdraft Trinity Aquifer thru 2000.	32	Low	$177,000	$224	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Aurora		Wise	Trinity	Begin purchasing water from Walnut Creek SUD (TRWD)	278	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Boyd		Wise	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	58	Low	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Boyd		Wise	Trinity	Begin purchasing water from Walnut Creek SUD (TRWD)	627	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Briar	P	Wise	Trinity	Continue purchasing water from Community WSC (TRWD)	58	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Bridgeport		Wise	Trinity	Continue purchasing water from TRWD	360	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Bridgeport		Wise	Trinity	Water treatment plant expansion in 2000	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Bridgeport		Wise	Trinity	Water treatment plant expansion in 2030	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Chico		Wise	Trinity	Continue purchasing water from West Wise WSC (TRWD)	41	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Tarrant Regional Water District	Decatur		Wise	Trinity	Continue purchasing water from Wise County WSC (TRWD)	400	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Decatur		Wise	Trinity	Water treatment plant expansion in 2010	0	Low	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Decatur		Wise	Trinity	Water treatment plant expansion in 2050	0	Low	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Newark		Wise	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	44	Low	$190,000	$141	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Newark		Wise	Trinity	Begin purchasing water from Walnut Creek SUD (TRWD)	358	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Rhome		Wise	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	33	Low	$0	$44	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Rhome		Wise	Trinity	Begin purchasing water from Walnut Creek SUD (TRWD)	301	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	County-Other		Wise	Trinity	Continue purchasing water from TRWD	6,443	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	County-Other		Wise	Trinity	Purchase water from UTRWD (Lake Chapman)	221	Low	$0	$0	See UTRWD Cost	See UTRWD Cost	See UTRWD Cost	Consistent	Consistent
	County-Other		Wise	Trinity	Purchase water from UTRWD (Reuse)	199	Low	$0	$0	See UTRWD Cost	See UTRWD Cost	See UTRWD Cost	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2000 Community WSC	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2020 Community WSC	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2010 Walnut Creek SUD	0	High	$14,977,000	$277	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2020 Walnut Creek SUD	0	High	$4,993,000	$404	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2030 Walnut Creek SUD	0	High	$4,993,000	$404	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2040 Walnut Creek SUD	0	High	$4,993,000	$404	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2050 Walnut Creek SUD	0	High	$4,993,000	$404	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Wise	Trinity	TRWD contract for 4,256 AF/Y with Duke	4,256	High	$7,918,000	$475	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Wise	Trinity	Renew Duke Contract with TRWD	4,256	High	$0	$475	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Wise	Trinity	TRWD contract for 3,548 AF/Y with Tractebel	3,548	High	$7,027,000	$484	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Tarrant Regional Water District	Steam Electric Power		Wise	Trinity	Renew Tractebel Contract with TRWD	3,548	High	$0	$484	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Wise	Trinity	Purchase water from TRWD	3,396	High	$6,793,000	$485	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent

Note:
* UTRWD's present contract with DWU is limited to a total of 10 MGD to UTRWD for cities not specifically named in the contract. DWU has made no commitment for future service to cities not specifically named in the contract, and future serve will require future city council action.

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Major Water Providers and Other Water Suppliers														
Dallas				Trinity	Return flows above lakes	50,000	Low	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Additional Temporary Overdraft	22,000	Moderate	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Extend Elm Fork Term Permit	10,000	High	$500,000	$4	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Lake Fork Connection	120,000	High	$288,000,000	$228	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Lake Palestine Connection	111,500	High	$332,600,000	$278	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Marvin Nichols I (Phase I)	56,000	High	$220,796,000	$375	High	Low	High	Consistent	Consistent
Dallas				Trinity	Marvin Nichols I (Phase II)	56,000	High	$131,530,000	$258	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Indirect Reuse	68,300	High	$124,000,000	$171	Moderate	Low	Moderate	Consistent	Consistent
Dallas				Trinity	Additional Return Flows (Alternative after 2030)	50,000	High	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Additional Indirect Reuse (Alternative after 2030)	50,000	High	$42,333,000	$266	Moderate	Low	Low	Consistent	Consistent
Dallas				Trinity	Water Treatment Plant Expansions	0	High	$107,134,000	$166	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Water Treatment Plant Expansions	0	High	$153,351,000	$280	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Water Treatment Plant Expansions	0	High	$67,369,000	$169	Low	Low	Low	Consistent	Consistent
Dallas				Trinity	Water Treatment Plant Expansions in 2040	0	High	$67,369,000	$169	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Cedar Creek/Richland-Chambers Pipeline Expansion (Phase I)	110,000	High	$24,681,000	$145	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Cedar Creek/Richland-Chambers Pipeline Expansion (Phase II)	0	High	$233,967,000	N/A	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Indirect Reuse from the Trinity River (Phase I)	63,000	High	$34,294,000	$237	Moderate	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Indirect Reuse from the Trinity River (Phase II)	52,500	High	$40,874,000	$255	Moderate	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Marvin Nichols I (Phase I)	78,000	High	$402,081,000	$509	High	Low	High	Consistent	Consistent
Tarrant Regional Water District				Trinity	Marvin Nichols I (Phase II)	78,000	High	$271,285,000	$385	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	West Fork Connection	0	High	$60,539,000	N/A	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Oklahoma water (Alternative after 2030)	12,000	High	$99,931,000	$1,095	Moderate	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Lake Texoma (Alternative after 2030)	25,000	High	$75,580,000	$280	Moderate	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Lake Tehuacana (Alternative after 2030)	68,300	High	$213,351,000	$240	Moderate	Low	Low	Consistent	Consistent
Tarrant Regional Water District				Trinity	Freestone County Groundwater	25,000	Moderate	$123,794,000	$737	Low-High	Moderate	Low	Consistent	Consistent
North Texas Municipal Water District					Additional Indirect Reuse	35,872	High	$1,000,000	$2	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Additional Lake Texoma	10,000	High	$5,286,000	$78	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Oklahoma water	50,000	High	$68,777,000	$441	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Lower Bois d'Arc Creek Lake	98,000	High	$167,324,000	$157	Moderate	Low	Moderate	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
North Texas Municipal Water District					Marvin Nichols I (Phase I)	81,650	High	$259,218,000	$289	High	Low	High	Consistent	Consistent
North Texas Municipal Water District					Marvin Nichols I (Phase II)	81,650	High	$132,387,000	$176	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Substantial Additional Lake Texoma water (Alternative after 2030)	50,000	High	$238,477,000	$638	Moderate	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Extend Texoma Pipeline (Alternative after 2030)	6,700	High	$51,927,000	$572	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Water Treatment Plant Expansions in 2010	0	High	$194,409,000	$189	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Water Treatment Plant Expansions in 2020	0	High	$67,592,000	$145	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Water Treatment Plant Expansions in 2030	0	High	$187,240,000	$263	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Water Treatment Plant Expansions in 2040	0	High	$168,490,000	$246	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District					Water Treatment Plant Expansions in 2050	0	High	$183,724,000	$331	Low	Low	Low	Consistent	Consistent
Fort Worth				Trinity	Purchase water from TRWD	213,816	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth				Trinity	Direct Reuse	2,600	High	$2,909,000	$344	Low	Low	Low	Consistent	Consistent
Fort Worth				Trinity	Water Treatment Plant Expansions in 2000	0	High	$27,300,000	$170	Low	Low	Low	Consistent	Consistent
Fort Worth				Trinity	Water Treatment Plant Expansions in 2010	0	High	$82,096,000	$188	Low	Low	Low	Consistent	Consistent
Fort Worth				Trinity	Water Treatment Plant Expansions in 2030	0	High	$52,113,000	$194	Low	Low	Low	Consistent	Consistent
Fort Worth				Trinity	Water Treatment Plant Expansions in 2050	0	High	$59,966,000	$237	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Purchase water from TRWD	42,808	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority				Trinity	Water Treatment Plant Expansion Phase I	0	High	$17,595,000	$233	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Water Treatment Plant Expansion Phase II	0	High	$17,595,000	$233	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Water Treatment Plant Expansion Phase III	0	High	$17,595,000	$233	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Ellis County Project	0	High	$22,958,000	$316	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Las Colinas Direct Reuse	7,000	Moderate	$5,493,000	$241	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Joe Pool Indirect Reuse - Phase I	14,000	Moderate	$5,875,000	$220	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Joe Pool Indirect Reuse - Phase II	14,000	Moderate	$6,031,000	$222	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Mountain Creek Indirect Reuse	3,000	Moderate	$2,015,000	$252	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Ellis County Direct Reuse (Ten Mile Creek)	20,000	Moderate	$22,958,000	$316	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Denton County Indirect Reuse	5,000	Moderate	$2,653,000	$232	Low	Low	Low	Consistent	Consistent

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Trinity River Authority				Trinity	Tarrant County Indirect Reuse	2,500	Moderate	$1,326,000	$232	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Grapevine Lake Indirect Reuse Phase I	8,000	Moderate	$1,000,000	$172	Low	Low	Low	Consistent	Consistent
Trinity River Authority				Trinity	Grapevine Lake Indirect Reuse Phase II	8,000	Moderate	$1,304,000	$163	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Lake Chapman	15,000	High	$0	$0	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Buy Lake Chapman water in 2050 from City of Commerce	3,700	High	$0	$0	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Indirect reuse of Chapman water	14,200	High	$1,000,000	$168	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Expand water treatment plant & transmission capacity by 2010	0	High	$79,479,000	$522	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Expand water treatment plant & transmission capacity by 2020	0	High	$123,776,000	$314	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Expand water treatment plant & transmission capacity by 2030	0	High	$99,969,000	$369	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Expand water treatment plant & transmission capacity by 2040	0	High	$99,969,000	$369	Low	Low	Low	Consistent	Consistent
Upper Trinity Regional Water District					Expand water treatment plant & transmission capacity by 2050	0	High	$75,964,000	$609	Low	Low	Low	Consistent	Consistent
Collin County														
North Texas Municipal Water District	Allen		Collin	Trinity	Continue purchasing water from NTMWD	21,407	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Blue Ridge		Collin	Trinity	Add new wells & overdraft Woodbine Aquifer thru 2010.	1	Low	$260,000	$344	Low	Low	Low	Consistent	Consistent
	Blue Ridge		Collin	Trinity	Reallocate Woodbine Aquifer (new well)	28	Moderate	$0	$344	Low	Low	Low	Consistent	Consistent
	Celina		Collin	Trinity	Overdraft Trinity Aquife rin 2000	108	Low	$0	$71	Low	Low	Low	Consistent	Consistent
	Celina		Collin	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	1,456	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Celina		Collin	Trinity	Begin purchasing water from UTRWD (reuse)	1,386	High	$0	$0	Moderate	Low	Low	Consistent	Consistent
Dallas	Celina		Collin	Trinity	Begin purchasing water from UTRWD (DWU)	6,276	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Dallas	P	Collin	Trinity	Continue purchasing water from DWU	2,880	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Fairview		Collin	Trinity	Continue purchasing water from NTMWD	1,155	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Farmersville		Collin	Trinity	Continue purchasing water from NTMWD	764	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Frisco	P	Collin	Trinity	Continue purchasing water from NTMWD	53,646	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Garland	P	Collin	Trinity	Continue purchasing water from NTMWD	5	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent

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North Texas Municipal Water District	Lucas		Collin	Trinity	Continue purchasing water from NTMWD	984	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	McKinney		Collin	Trinity	Continue purchasing water from NTMWD	54,674	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Melissa		Collin	Trinity	Continue purchasing water from Norht Collins WSC (NTMWD)	91	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Murphy		Collin	Trinity	Continue purchasing water from NTMWD	2,392	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	New Hope		Collin	Trinity	Continue purchasing water from North Collins WSC (NTMWD)	59	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Parker		Collin	Trinity	Continue purchasing water from NTMWD	6,827	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Plano	P	Collin	Trinity	Continue purchasing water from NTMWD	50,335	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Princeton		Collin	Trinity	Continue purchasing water from NTMWD	742	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Prosper		Collin	Trinity	Overdraft Woodbine Aquifer in 2000	188	Low	$0	$71	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District	Prosper		Collin	Trinity	Begin purchasing water from NTMWD	3,178	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Prosper		Collin	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	921	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Prosper		Collin	Trinity	Begin purchasing water from UTRWD (reuse)	910	High	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas	Prosper		Collin	Trinity	Begin purchasing water from UTRWD (DWU)	2,022	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Richardson	P	Collin	Trinity	Continue purchasing water from NTMWD	3,280	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal V	Royse City	P	Collin	Sabine	Continue purchasing water from NTMWD	123	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Sachse	P	Collin	Trinity	Continue purchasing water from NTMWD	102	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Wylie	P	Collin	Trinity	Continue purchasing water from NTMWD	6,936	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	County-Other		Collin	Sabine	Continue purchasing water from NTMWD	1,185	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	County-Other		Collin	Trinity	Continue purchasing water from NTMWD	19,553	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Manufacturing		Collin	Trinity	Continue purchasing water from NTMWD	2,458	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Steam Electric Power		Collin	Trinity	Continue purchasing water from NTMWD	8,437	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Steam Electric Power		Collin	Trinity	NTMWD Reuse	7,200	High	$14,111,000	$342	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Cooke County														

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	Gainesville		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	942	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Gainesville		Cooke	Trinity	1 MGD pipeline from Moss Lake Phase I	561	High	$2,566,000	$976	Low	Low	Low	Consistent	Consistent
	Gainesville		Cooke	Trinity	1 MGD pipeline from Moss Lake Phase II	561	High	$1,371,000	$789	Low	Low	Low	Consistent	Consistent
	Gainesville		Cooke	Trinity	Parallel pipeline for Cooke County Water Supply Project	2,602	High	$26,785,000	$964	Low	Low	Low	Consistent	Consistent
	Lindsay		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	28	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Lindsay		Cooke	Trinity	Cooke County Water Supply Project	97	High	$0	$1,209	Low	Low	Low	Consistent	Consistent
	Muenster		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	90	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Muenster		Cooke	Trinity	Lake Muenster	446	High	$11,023,000	$1,807	Low-Moderate	Low	Low	Consistent	Consistent
	Valley View		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	30	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Valley View		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (new wells)	24	Low	$160,000	$581	Low	Low	Low	Consistent	Consistent
	Valley View		Cooke	Trinity	Reallocate Trinity Aquifer (existing wells)	30	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent
	Valley View		Cooke	Trinity	Reallocate Trinity Aquifer (new well)	48	Moderate	$0	$581	Low	Low	Low	Consistent	Consistent
	Valley View		Cooke	Trinity	Purchase water from UTRWD (Lake Chapman)	57	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Valley View		Cooke	Trinity	Purchase water from UTRWD (reuse)	56	High	$0	$0	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Red	Overdraft Trinity Aquifer in Red Basin in 2000 (existing wells)	86	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Red	Overdraft Trinity Aquifer in Red Basin in 2000 (new wells)	24	Low	$318,000	$1,296	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Red	Reallocate Trinity Aquifer in Red Basin (existing wells)	86	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Red	Reallocate Trinity Aquifer in Red Basin (new well)	24	Moderate	$0	$1,296	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Overdraft Trinity Aquifer in Trinity Basin in 2000 (existing wells)	631	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Reallocate Trinity Aquifer in Trinity Basin (existing wells)	503	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Add new well in Woodbine Aquifer in Trinity Basin	141	Moderate	$1,186,000	$734	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Cooke County Water Supply Project	558	High	$0	$1,209	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Purchase water from UTRWD (Lake Chapman)	714	High	$0	$0	Low	Low	Low	Consistent	Consistent
	County-Other		Cooke	Trinity	Purchase water from UTRWD (Reuse)	544	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Manufacturing		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	147	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Manufacturing		Cooke	Trinity	Moss Lake	260	High	$0	$1,209	Low	Low	Low	Consistent	Consistent
	Manufacturing		Cooke	Trinity	Muenster Lake	204	High	$0	$0	Low-Moderate	Low	Low	Consistent	Consistent
	Mining		Cooke	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	89	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Irrigation		Cooke	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	39	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Irrigation		Cooke	Red	Reallocate Trinity Aquifer (existing wells)	44	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent
	Livestock		Cooke	Red	Overdraft Trinity Aquifer in Red Basinin 2000 (existing wells)	105	Low	$0	$42	Low	Low	Low	Consistent	Consistent

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	Livestock		Cooke	Red	Reallocate Trinity Aquifer in Red Basin (existing wells)	146	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent
	Livestock		Cooke	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	270	Low	$0	$42	Low	Low	Low	Consistent	Consistent
	Livestock		Cooke	Trinity	Reallocate Trinity Aquifer in Trinity Basin (existing wells)	348	Moderate	$0	$42	Low	Low	Low	Consistent	Consistent
	Livestock		Cooke	Trinity	Overdraft Trinity Aquifer in Trinity Basin in 2000 (new well)	8	Moderate	$157,000	$1,627	Low	Low	Low	Consistent	Consistent
	Livestock		Cooke	Trinity	Reallocate Trinity Aquifer in Trinity Basin (new well)	8	Moderate	$0	$1,627	Low	Low	Low	Consistent	Consistent
Dallas County														
Dallas	Addison		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Addison		Dallas	Trinity	Continue purchasing water from DWU	15,291	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Balch Springs		Dallas	Trinity	Renew DWU Contract with Dallas County WCID #6	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Balch Springs		Dallas	Trinity	Continue purchasing water from Dallas County WCID #6 (DWU)	4,638	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Carrollton	P	Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Carrollton	P	Dallas	Trinity	Continue purchasing water from DWU	18,549	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Cedar Hill	P	Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Cedar Hill	P	Dallas	Trinity	Continue purchasing water from DWU	19,836	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Cockrell Hill		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Cockrell Hill		Dallas	Trinity	Continue purchasing water from DWU	891	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Combine	P	Dallas	Trinity	Continue purchasing water from Combine WSC (DWU)	34	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Coppell		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Coppell		Dallas	Trinity	Continue purchasing water from DWU	18,326	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Dallas	P	Dallas	Trinity	Continue purchasing water from DWU	69,400	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	De Soto		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	De Soto		Dallas	Trinity	Continue purchasing water from DWU	20,208	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Duncanville		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Duncanville		Dallas	Trinity	Continue purchasing water from DWU	11,803	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Farmers Branch		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Farmers Branch		Dallas	Trinity	Continue purchasing water from DWU	17,704	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Garland	P	Dallas	Trinity	Continue purchasing water from NTMWD	23,412	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Dallas	Glenn Heights	P	Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Glenn Heights	P	Dallas	Trinity	Continue purchasing water from DWU	1,553	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Grand Prairie	P	Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent

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Dallas	Grand Prairie	P	Dallas	Trinity	Continue purchasing water from DWU	19,813	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Grapevine	P	Dallas	Trinity	Begin purchasing water from DWU	10	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Grapevine	P	Dallas	Trinity	Direct Reuse	10	High	$0	$0	Moderate	Low	Low	Consistent	Consistent
Dallas	Hutchins		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Hutchins		Dallas	Trinity	Continue purchasing water from DWU	2,385	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Irving		Dallas	Trinity	Lake Chapman	50,200	High	$97,500,000	$147	Low	Low	Low	Consistent	Consistent
	Irving		Dallas	Trinity	Indirect Reuse (alternative after 2030)	24,000	Moderate	$29,076,000	$292	Low	Low	Low	Consistent	Consistent
	Irving		Dallas	Trinity	Participant in Marvin Nichols I Reservoir (Phase I)	20,000	High	$48,904,000	$48,904,000	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Irving		Dallas	Trinity	Participant in Marvin Nichols I Reservoir (Phase II)	5,000	High	$29,152,000	$29,152,000	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Irving		Dallas	Trinity	Continue purchasing water from DWU	5,931	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Irving		Dallas	Trinity	Purchase water from Oklahoma (alternative strategy)	25,000	High	$112,974,000	$112,974,000	Low	Low	Low	Consistent	Consistent
Dallas	Lancaster		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lancaster		Dallas	Trinity	Continue purchasing water from DWU	6,599	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lewisville	P	Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lewisville	P	Dallas	Trinity	Continue purchasing water from DWU	599	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Mesquite		Dallas	Trinity	Continue purchasing water from NTMWD	23,011	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Dallas	Ovilla	P	Dallas	Trinity	Renew DWU Contract with Cedar Hill	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Ovilla	P	Dallas	Trinity	Continue purchasing water from Cedar Hill (DWU)	143	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Richardson	P	Dallas	Trinity	Continue purchasing water from NTMWD	18,190	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Rowlett	P	Dallas	Trinity	Continue purchasing water from NTMWD	8,870	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Sachse	P	Dallas	Trinity	Continue purchasing water from NTMWD	3,128	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Dallas	Seagoville		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Seagoville		Dallas	Trinity	Continue purchasing water from DWU	4,794	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Sunnyvale		Dallas	Trinity	Continue purchasing water from NTMWD	1,465	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Wilmer		Dallas	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	136	Low	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas	Wilmer		Dallas	Trinity	Begin purchasing water from DWU	376	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	County-Other		Dallas	Trinity	Continue purchasing water from DWU	7,100	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	County-Other		Dallas	Trinity	Increase supply from DWU	31,000	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	County-Other		Dallas	Trinity	New Dallas County (Marvin Nichols I -Phase I)	12,000	High	$80,646,000	$374	High	Low	Low	Consistent	Consistent
	County-Other		Dallas	Trinity	New Dallas County (Marvin Nichols I - Phase II)	27,000	High	$49,191,000	$255	Low	Low	Low	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Trinity River Authority	County-Other		Dallas	Trinity	TRA/Las Colinas Direct Reuse	7,000	High	$5,493,000	$241	Low	Low	Low	Consistent	Consistent
Trinity River Authority	County-Other		Dallas	Trinity	TRA Reuse - Phase I (Joe Pool) (Indirect)	14,000	High	$51,765,000	$291	Low	Low	Low	Consistent	Consistent
Trinity River Authority	County-Other		Dallas	Trinity	TRA Reuse - Phase II (Joe Pool) (Indirect)	14,000	High	$41,213,000	$236	Low	Low	Low	Consistent	Consistent
Trinity River Authority	County-Other		Dallas	Trinity	TRA Reuse - Phase I (Grapevine) (Indirect)	8,000	High	$38,701,000	$377	Low	Low	Low	Consistent	Consistent
Trinity River Authority	County-Other		Dallas	Trinity	TRA Reuse - Phase II (Grapevine) (Indirect)	8,000	High	$29,967,000	$298	Low	Low	Low	Consistent	Consistent
	County-Other		Dallas	Trinity	New water treatment plant (Dallas County Other)	0	High	$34,980,000	$263	Low	Low	Low	Consistent	Consistent
	County-Other		Dallas	Trinity	Expand water treatment plant (Dallas County Other)	0	High	$44,974,000	$198	Low	Low	Low	Consistent	Consistent
Dallas	Manufacturing		Dallas	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Manufacturing		Dallas	Trinity	Continue purchasing water from DWU	12,644	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Manufacturing		Dallas	Trinity	Irving (DWU)	350	High	$0	$0	See Irving and Dallas above	See Irving and Dallas above	See Irving and Dallas above	Consistent	Consistent
	Manufacturing		Dallas	Trinity	Irving (Chapman)	2,925	High	$0	$0	See Irving above	See Irving above	See Irving above	Consistent	Consistent
North Texas Municipal Water District	Manufacturing		Dallas	Trinity	Continue purchasing water from NTMWD	1,935	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Dallas	Steam Electric Power		Dallas	Trinity	Continue purchasing water from DWU	3,390	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Steam Electric Power		Dallas	Trinity	Renew DWU Contract for TXU's Northlake Plant	9,550	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Steam Electric Power		Dallas	Trinity	Renew DWU contract for TXU's Hubbard Plant	3,000	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Steam Electric Power		Dallas	Trinity	Continue purchasing water from NTMWD	186	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Trinity River Authority	Steam Electric Power		Dallas	Trinity	TRA/Mountain Creek Reuse (Indirect)	3,000	High	$6,808,000	$245	Low	Low	Low	Consistent	Consistent
	Mining		Dallas	Trinity	Add new wells & overdraft Trinity Aquifer thru 2010.	1,859	Low	$1,372,000	$299	Low	Low	Low	Consistent	Consistent
Dallas	Mining		Dallas	Trinity	Begin purchasing water from DWU	5,580	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Denton County														
	Argyle		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	483	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Argyle		Denton	Trinity	Purchase water from UTRWD (reuse)	477	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Argyle		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Argyle		Denton	Trinity	Continue purchasing water from UTRWD (DWU)	4,465	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Aubrey		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	205	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Aubrey		Denton	Trinity	Purchase water from UTRWD (reuse)	195	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Aubrey		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Aubrey		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	928	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Bartonville		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Bartonville		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	348	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	Bartonville		Denton	Trinity	Purchase water from UTRWD (reuse)	344	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Bartonville		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	3,003	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Carrollton	P	Denton	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Carrollton	P	Denton	Trinity	Continue purchasing water from DWU	17,725	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Copper Canyon		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Copper Canyon		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	216	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Copper Canyon		Denton	Trinity	Purchase water from UTRWD (reuse)	214	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Copper Canyon		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	1,682	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Corinth		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	1,509	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Corinth		Denton	Trinity	Purchase water from UTRWD (reuse)	1,433	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Corinth		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Corinth		Denton	Trinity	Continue purchasing water from UTRWD (DWU)	4,862	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Crossroads		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	494	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Crossroads		Denton	Trinity	Purchase water from UTRWD (reuse)	469	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Crossroads		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Crossroads		Denton	Trinity	(*) Continue purchasing water from Mustang WSC (UTRWD from DWU)	2,242	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Dallas	P	Denton	Trinity	Continue purchasing water from DWU	2,114	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Denton		Denton	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Denton		Denton	Trinity	Continue purchasing water from DWU	39,512	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Denton		Denton	Trinity	Expand water treatment plant in 2000	0	High	$29,983,000	$276	Low	Low	Low	Consistent	Consistent
	Denton		Denton	Trinity	Expand water treatment plant in 2020	0	High	$29,983,000	$211	Low	Low	Low	Consistent	Consistent
	Denton		Denton	Trinity	Expand water treatment plant in 2040	0	High	$29,983,000	$211	Low	Low	Low	Consistent	Consistent
Dallas	Double Oak		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Double Oak		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	194	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Double Oak		Denton	Trinity	Purchase water from UTRWD (reuse)	192	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Double Oak		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	1,045	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Flower Mound		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Flower Mound		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	3,469	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Flower Mound		Denton	Trinity	Purchase water from UTRWD (reuse)	3,430	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Flower Mound		Denton	Trinity	Continue purchasing water from UTRWD (DWU)	28,951	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Flower Mound		Denton	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Dallas	Flower Mound		Denton	Trinity	Continue purchasing water from DWU	8,968	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Frisco	P	Denton	Trinity	Continue purchasing water from NTMWD	459	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Hebron		Denton	Trinity	Overdraft Woodbine Aquifer in 2000	200	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Hebron		Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	558	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Hebron		Denton	Trinity	Begin purchasing water from UTRWD (reuse)	552	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Hebron		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	590	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Hickory Creek		Denton	Trinity	Purchase water from Lake Cities MUD (UTRWD Lake Chapman)	279	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Hickory Creek		Denton	Trinity	Purchase water from UTRWD (reuse)	265	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Hickory Creek		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Hickory Creek		Denton	Trinity	Continue purchasing water from Lake Cities MUA (UTRWD from DWU)	1,163	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Highland Village		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	998	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Highland Village		Denton	Trinity	Purchase water from UTRWD (reuse)	986	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Highland Village		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Highland Village		Denton	Trinity	Continue purchasing water from UTRWD (DWU)	2,528	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Justin		Denton	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	180	Low	$0	$79	Low	Low	Low	Consistent	Consistent
	Justin		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	516	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Justin		Denton	Trinity	Purchase water from UTRWD (reuse)	510	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Justin		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	2,798	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Krugerville		Denton	Trinity	Add new wells & overdraft Trinity Aquifer in 2000.	77	Low	$547,000	$217	Low	Low	Low	Consistent	Consistent
	Krugerville		Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	223	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Krugerville		Denton	Trinity	Begin purchasing water from UTRWD (reuse)	220	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Krugerville		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	274	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Krum		Denton	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	264	Low	$0	$79	Low	Low	Low	Consistent	Consistent
	Krum		Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	694	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Krum		Denton	Trinity	Begin purchasing water from UTRWD (reuse)	686	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Krum		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	882	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Lake Dallas		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	347	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Lake Dallas		Denton	Trinity	Purchase water from UTRWD (reuse)	339	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Lake Dallas		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lake Dallas		Denton	Trinity	Continue purchasing water from Lake Cities MUA (UTRWD from DWU)	1,252	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	Lewisville	P	Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	4,954	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Lewisville	P	Denton	Trinity	Begin purchasing water from UTRWD (reuse)	4,712	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Lewisville	P	Denton	Trinity	Begin purchasing water from UTRWD (DWU)	10,765	High	$0	$0	Low	Low	Low	Consistent	Consistent
Dallas	Lewisville	P	Denton	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lewisville	P	Denton	Trinity	Continue purchasing water from DWU	28,025	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Lincoln Park		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	64	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Lincoln Park		Denton	Trinity	Purchase water from UTRWD (reuse)	61	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Lincoln Park		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Lincoln Park		Denton	Trinity	(*) Continue purchasing water from Mustange WSC (UTRWD from DWU)	289	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Little Elm		Denton	Trinity	Add new well & overdraft Woodbine Aquifer in 2000.	234	High	$1,309,000	$102	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District	Little Elm		Denton	Trinity	Begin purchasing water from NTMWD	2,180	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Fort Worth	Northlake		Denton	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Northlake		Denton	Trinity	Continue purchasing water from Fort Worth (TRWD)	7,070	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
	Northlake		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	467	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Northlake		Denton	Trinity	Purchase water from UTRWD (reuse)	445	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Northlake		Denton	Trinity	(*) Purchase water from UTRWD (DWU)	2,761	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Oak Point		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	326	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Oak Point		Denton	Trinity	Purchase water from UTRWD (reuse)	310	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Oak Point		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Oak Point		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	1,383	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Pilot Point		Denton	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	279	Low	$0	$79	Low	Low	Low	Consistent	Consistent
	Pilot Point		Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	846	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Pilot Point		Denton	Trinity	Begin purchasing water from UTRWD (reuse)	837	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Pilot Point		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	1,107	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Plano	P	Denton	Trinity	Continue purchasing water from NTMWD	32	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Ponder		Denton	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	350	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Ponder		Denton	Trinity	Begin purchasing water from UTRWD (reuse)	333	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Ponder		Denton	Trinity	(*) Begin purchasing water from UTRWD (DWU)	1,497	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Fort Worth	Roanoke		Denton	Trinity	Renew Fort Worth Contract with Trophy Club #1	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Fort Worth	Roanoke		Denton	Trinity	Continue purchasing water from Trophy Club #1 (Fort Worth from TRWD)	1,291	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
	Sanger		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	1,508	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Sanger		Denton	Trinity	Purchase water from UTRWD (reuse)	1,435	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Sanger		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Sanger		Denton	Trinity	(*) Continue purchasing water from Denton (UTRWD).	2,878	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Shady Shores		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	146	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Shady Shores		Denton	Trinity	Purchase water from UTRWD (reuse)	139	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Shady Shores		Denton	Trinity	Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Shady Shores		Denton	Trinity	Continue purchasing water from Lake Cities MUA (UTRWD from DWU)	543	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Fort Worth	Southlake	P	Denton	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Southlake	P	Denton	Trinity	Continue purchasing water from Fort Worth (TRWD)	1,076	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Dallas	The Colony		Denton	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	The Colony		Denton	Trinity	Continue purchasing water from DWU	11,696	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Fort Worth	Trophy Club		Denton	Trinity	Renew Fort Worth Contract with Trophy Club #1	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Trophy Club		Denton	Trinity	Continue purchasing water from Trophy Club #1 (Fort Worth from TRWD)	9,092	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	County-Other		Denton	Trinity	TRA Indirect Reuse (Denton Creek)	5,000	High	$2,653,000	$2,653,000	See TRA above	See TRA above	See TRA above	Consistent	Consistent
Fort Worth	County-Other		Denton	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	County-Other		Denton	Trinity	Continue purchasing water from Fort Worth (TRWD)	5,729	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
	County-Other		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	4,722	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	County-Other		Denton	Trinity	Purchase water from UTRWD (reuse)	4,488	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	County-Other		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	County-Other		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	21,454	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Manufacturing		Denton	Trinity	Purchase water from UTRWD (Lake Chapman)	275	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
	Manufacturing		Denton	Trinity	Purchase water from UTRWD (reuse)	261	High	$0	$0	See UTRWD above	See UTRWD above	See UTRWD above	Consistent	Consistent
Dallas	Manufacturing		Denton	Trinity	(*) Renew DWU Contract with UTRWD	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Manufacturing		Denton	Trinity	(*) Continue purchasing water from UTRWD (DWU)	1,244	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Mining		Denton	Trinity	Increase Other Local Supply	16	Moderate	$0	$200	Low	Low	Low	Consistent	Consistent
	Steam Electric Power		Denton	Trinity	Indirect Reuse	5,500	High	$9,315,000	$319	Low	Low	Low	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Ellis County														
Dallas	Cedar Hill	P	Ellis	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Cedar Hill	P	Ellis	Trinity	Continue purchasing water from DWU	53	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Tarrant Regional Water District	Ennis		Ellis	Trinity	Begin purchasing water from TRA (TRWD)	4,204	High	$9,182,000	$977	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Ferris		Ellis	Trinity	TRA Ellis County Water Supply Project - Easterly Subsystem	807	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Dallas	Glenn Heights	P	Ellis	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Glenn Heights	P	Ellis	Trinity	Continue purchasing water from DWU	311	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Grand Prairie	P	Ellis	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Grand Prairie	P	Ellis	Trinity	Continue purchasing water from DWU	43	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Italy		Ellis	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	37	High	$0	$82	Low	Low	Low	Consistent	Consistent
Trinity River Authority	Italy		Ellis	Trinity	TRA Ellis County Water Supply Project - Southerly Subsystem	579	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Mansfield	P	Ellis	Trinity	Continue purchasing water from TRWD	127	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Maypearl		Ellis	Trinity	Add new well & overdraft Woodbine Aquifer in 2000 (new well)	81	Low	$228,000	$309	Low	Low	Low	Consistent	Consistent
Trinity River Authority	Maypearl		Ellis	Trinity	TRA Ellis County Water Supply Project - Westerly Subsystem	415	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Midlothian		Ellis	Trinity	TRA Ellis County Water Supply Project	1,825	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Midlothian		Ellis	Trinity	Midlothian pipeline expansion	0	High	$847,000	$404	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Midlothian		Ellis	Trinity	Midlothian WTP expansion	0	High	$5,203,000	$566	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Milford		Ellis	Trinity	Add new well and overdraft Woodbine Aquifer in 2000	81	High	$228,000	$309	Low	Low	Low	Consistent	Consistent
	Milford		Ellis	Trinity	Continue to obtain surface water from Files Valley WSC (Aquilla Creek)	95	High	$0	$489	Low	Low	Low	Consistent	Consistent
Dallas	Oak Leaf	P	Ellis	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Oak Leaf	P	Ellis	Trinity	Continue purchasing water from DWU	339	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Ovilla	P	Ellis	Trinity	Renew DWU Contract with Cedar Hill	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Ovilla	P	Ellis	Trinity	Continue purchasing water from Cedar Hill (DWU)	1,144	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
	Palmer		Ellis	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	83	Low	$0	$70	Low	Low	Low	Consistent	Consistent
Trinity River Authority	Palmer		Ellis	Trinity	TRA Ellis County Water Supply Project - Easterly Subsystem	390	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Pecan Hill		Ellis	Trinity	New contract with Rockett SUD	59	High	$0	$489	Low	Low	Low	Consistent	Consistent
	Red Oak		Ellis	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	196	Low	$0	$70	Low	Low	Low	Consistent	Consistent
Trinity River Authority	Red Oak		Ellis	Trinity	TRA Ellis County Water Supply Project - Easterly Subsystem	2,108	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent

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Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Trinity River Authority	Waxahachie		Ellis	Trinity	TRA Ellis County Water Supply Project - Raw Water Subsystem	5,219	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	County-Other		Ellis	Trinity	TRA Ellis County Water Supply Project	8,687	High	$65,945,000	$655	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Manufacturing		Ellis	Trinity	Ellis County Water Supply Project	146	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Manufacturing		Ellis	Trinity	Ellis County Water Supply Project	10	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Manufacturing		Ellis	Trinity	Ellis County Water Supply Project	1,152	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Manufacturing		Ellis	Trinity	Ellis County Water Supply Project	359	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Manufacturing		Ellis	Trinity	Ellis County Water Supply Project	89	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Steam Electric Power		Ellis	Trinity	Existing 3 MGD contract with Ennis; supplied by wastewater (indirect)	2,463	High	$22,958,000	$316	Moderate	Low	Low	Consistent	Consistent
	Steam Electric Power		Ellis	Trinity	Existing 3 MGD contract with Ennis; supplied by Lake Bardwell	1,541	High	$0	$490	Moderate	Low	Low	Consistent	Consistent
	Steam Electric Power		Ellis	Trinity	Joe Pool Lake Indirect Reuse	34	High	$0	$0	Low	Low	Low	Consistent	Consistent
Trinity River Authority	Steam Electric Power		Ellis	Trinity	Reuse from TRA Ten Mile Creek plant	20,000	High	$22,958,000	$316	Low	Low	Low	Consistent	Consistent
Fannin County														
	Bonham		Fannin	Red	Fannin County Water Supply Project	500	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Honey Grove		Fannin	Sulphur	Fannin County Water Supply Project	27	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Honey Grove		Fannin	Red	Fannin County Water Supply Project	501	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Leonard		Fannin	Sulphur	Fannin County Water Supply Project	37	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Leonard		Fannin	Trinity	Fannin County Water Supply Project	328	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Savoy		Fannin	Red	Fannin County Water Supply Project	126	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	Trenton		Fannin	Trinity	Fannin County Water Supply Project	175	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	County-Other		Fannin	Red	Fannin County Water Supply Project	1,836	High	$52,358,000	$1,200	Moderate	Low	Low	Consistent	Consistent
	County-Other		Fannin	Sulphur	Fannin County Water Supply Project	561	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	County-Other		Fannin	Trinity	Fannin County Water Supply Project	64	High	$0	$1,200	Moderate	Low	Low	Consistent	Consistent
	County-Other		Fannin	Red	Add new well in Trinity Aquifer	72	High	$252,000	$346	Low	Low	Low	Consistent	Consistent
	County-Other		Fannin	Red	Add new well in Woodbine Aquifer	13	High	$243,000	$925	Low	Low	Low	Consistent	Consistent
	County-Other		Fannin	Red	Upper Bois d'Arc Creek Reservoir (Alternative after 2030)	26,904	High	$89,654,000	$324	Moderate	Low	Low	Not Consistent	Consistent
	County-Other		Fannin	Red	Ralph Hall Reservoir (Alternative after 2030)	30,500	Moderate	$155,530,000	$451	Moderate	Low	Low	Not Consistent	Not Consistent
Freestone County														
	Fairfield		Freestone	Trinity	Add new well in Carrizo-Wilcox Aquifer	95	High	$178,000	$192	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Fairfield		Freestone	Trinity	Begin purchasing water from TRWD	128	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent

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Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Trinity River Authority	Fairfield		Freestone	Trinity	Begin purchasing water from TRA (TRWD)	128	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Wortham		Freestone	Trinity	Purchase water from Mexia	335	High	$0	$489	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Wortham		Freestone	Trinity	Begin purchasing water from TRWD	531	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Freestone	Trinity	Calpine contract with TRWD	5,602	High	$4,989,000	$332	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Freestone	Trinity	Purchase additional water from TRWD (Plant 1)	5,109	High	$4,914,000	$338	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Freestone	Trinity	Purchase additional water from TRWD (Plant 2)	5,109	High	$4,914,000	$338	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Grayson County														
	Bells		Grayson	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	24	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Bells		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	24	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Bells		Grayson	Red	Grayson County Water Supply Project	135	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Collinsville		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	52	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Collinsville		Grayson	Trinity	Grayson County Water Supply Project	123	Low	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Gunter		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	61	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Gunter		Grayson	Trinity	Grayson County Water Supply Project	164	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Howe		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	142	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Howe		Grayson	Red	Grayson County Water Supply Project	238	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Howe		Grayson	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	29	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Howe		Grayson	Trinity	Grayson County Water Supply Project	60	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Luella		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	57	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Luella		Grayson	Red	Add new well & overdraft Woodbine Aquifer in 2000	8	Low	$152,000	$1,563	Low	Low	Low	Consistent	Consistent
	Luella		Grayson	Red	Grayson County Water Supply Project	82	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Pottsboro		Grayson	Red	Pottsboro acquires water right in Lake Texoma & Denison provides treatment.	3,000	High	$990,000	$521	Low	Low	Low	Consistent	Consistent
	Pottsboro		Grayson	Red	Grayson County Water Supply Project	198	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Southmayd		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	35	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Southmayd		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (new well)	128	Low	$439,000	$349	Low	Low	Low	Consistent	Consistent
	Southmayd		Grayson	Red	Grayson County Water Supply Project	143	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Tioga		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	23	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Tioga		Grayson	Trinity	Grayson County Water Supply Project	86	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Tom Bean		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	110	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Tom Bean		Grayson	Red	Grayson County Water Supply Project	150	Low	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Van Alstyne		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	58	Low	$0	$94	Low	Low	Low	Consistent	Consistent

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Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	Van Alstyne		Grayson	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	34	High	$0	$87	Low	Low	Low	Consistent	Consistent
	Van Alstyne		Grayson	Trinity	Add new well & overdraft Woodbine Aquifer in 2000	40	Low	$215,000	$963	Low	Low	Low	Consistent	Consistent
	Van Alstyne		Grayson	Trinity	Grayson County Water Supply Project	1,132	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Whitesboro		Grayson	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	511	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Whitesboro		Grayson	Red	Grayson County Water Supply Project	593	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Whitesboro		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	14	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Whitesboro		Grayson	Trinity	Grayson County Water Supply Project	25	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Whitewright		Grayson	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	138	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Whitewright		Grayson	Red	Reallocate Woodbine Aquifer (existing wells)	67	Moderate	$0	$87	Low	Low	Low	Consistent	Consistent
	Whitewright		Grayson	Red	Reallocate Trinity Aquifer (new well)	121	Moderate	$577,000	$524	Low	Low	Low	Consistent	Consistent
	Whitewright		Grayson	Red	Grayson County Water Supply Project	211	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	County-Other		Grayson	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	795	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	County-Other		Grayson	Red	Overdraft Trinity Aquifer in 2000 (new well)	805	Low	$835,000	$280	Low	Low	Low	Consistent	Consistent
	County-Other		Grayson	Red	Reallocate Trinity Aquifer (new well)	805	Moderate	$0	$280	Low	Low	Low	Consistent	Consistent
	County-Other		Grayson	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	356	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	County-Other		Grayson	Red	Grayson County Water Supply Project	970	High	$94,316,000	$1,687	Low	Low	Low	Consistent	Consistent
	County-Other		Grayson	Trinity	Grayson County Water Supply Project	981	High	$0	$1,687	Low	Low	Low	Consistent	Consistent
	Manufacturing		Grayson	Red	Purchase from Sherman	3,795	High	$0	$489	Low	Low	Low	Consistent	Consistent
	Manufacturing		Grayson	Trinity	Purchase from Sherman	8	High	$0	$489	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	101	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Overdraft Trinity Aquifer in 2000 (new well)	242	Low	$519,000	$249	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Reallocate Trinity Aquifer (existing wells)	57	Moderate	$0	$94	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Add new well in Trinity Aquifer & reallocate (new wells)	483	Low	$513,000	$249	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Add new well & overdraft Woodbine Aquifer in 2000 (new well)	322	Low	$528,000	$232	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Red	Reallocate Woodbine Aquifer (new well)	322	Moderate	$0	$232	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	208	Low	$0	$94	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Overdraft Trinity Aquifer in 2000 (new well)	81	Low	$214,000	$266	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Reallocate Trinity Aquifer (existing wells)	125	Moderate	$0	$94	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Reallocate Trinity Aquifer (new well)	81	Moderate	$0	$266	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	145	Low	$0	$87	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Reallocate Woodbine Aquifer (existing wells)	130	Moderate	$0	$87	Low	Low	Low	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	Mining		Grayson	Red	Indirect Reuse from Denton WWTP	384	Moderate	$0	$163	Low	Low	Low	Consistent	Consistent
	Mining		Grayson	Trinity	Indirect Reuse from Sherman WWTP	199	Moderate	$0	$163	Low	Low	Low	Consistent	Consistent
	Irrigation		Grayson	Trinity	Reallocate Trinity Aquifer (existing wells)	542	High	$0	$94	Low	Low	Low	Consistent	Consistent
Henderson County														
	Malakoff		Henderson	Trinity	Add new well in Carrizo-Wilcox Aquifer & overdraft in 2000	9	High	$281,000	$145	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Malakoff		Henderson	Trinity	Pipeline to TRWD to begin purchasing water from TRWD (potential contract 560 ac-ft/yr)	563	High	$7,809,000	$1,435	Low	Low	Low	Consistent	Consistent
Jack County														
	Bryson		Jack	Brazos	Pipeline to connect Bryson to Lake Jacksboro (Option after 2030)	250	High	$2,522,000	$2,522,000	Low	Low	Low	Consistent	Consistent
Kaufman County														
Dallas	Combine	P	Kaufman	Trinity	Continue purchasing water from Combine WSC (DWU)	119	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Crandall		Kaufman	Trinity	Continue purchasing water from Kaufman Four One (NTMWD)	566	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Dallas	Dallas	P	Kaufman	Trinity	Continue purchasing water from DWU	2	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Forney		Kaufman	Trinity	Continue purchasing water from NTMWD	4,626	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Kaufman		Kaufman	Trinity	Continue purchasing water from NTMWD	1,170	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Kemp		Kaufman	Trinity	Water Treatment Plant Expansion in 2010	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District	Oak Grove		Kaufman	Trinity	Continue purchasing water from Kaufman (NTMWD)	77	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Terrell		Kaufman	Trinity	Water Treatment Plant Expansion in 2010	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Terrell		Kaufman	Trinity	Water Treatment Plant Expansion in 2020	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Terrell		Kaufman	Trinity	Water Treatment Plant Expansion in 2050	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District	County-Other		Kaufman	Sabine	Continue purchasing water from NTMWD	109	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	County-Other		Kaufman	Trinity	Continue purchasing water from NTMWD	3,394	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	County-Other		Kaufman	Trinity	Terrell (Lake Tawakoni)	330	High	$0	$489	Low	Low	Low	Consistent	Consistent
North Texas Municipal Water District	Manufacturing		Kaufman	Trinity	Continue purchasing water from NTMWD	153	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
	Manufacturing		Kaufman	Trinity	Terrell (Lake Tawakoni)	75	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Steam Electric Power		Kaufman	Trinity	Reuse from Garland	15,694	High	$18,497,000	$267	Moderate	Low	Low	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	Mining		Kaufman	Trinity	Add new well & overdraft Woodbine Aquifer in 2000	21	Low	$163,000	$630	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Mining		Kaufman	Trinity	Begin purchasing water from TRWD	135	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Irrigation		Kaufman	Trinity	Additional Irrigation Local Supply	397	High	$0	$163	Low	Low	Low	Consistent	Consistent
Navarro County														
	Corsicana		Navarro	Trinity	Install pipeline from Richland-Chambers Reservoir to Corsicana after 2030	13,650	High	$12,875,000	$94	Low	Low	Low	Consistent	Consistent
	Corsicana		Navarro	Trinity	Water treatment plant expansion in 2020	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Corsicana		Navarro	Trinity	Water treatment plant expansion in 2040	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Mining		Navarro	Trinity	Add new well in Carrizo-Wilcox Aquifer	50	High	$44,000	$49	Low	Low	Low	Consistent	Consistent
	Mining		Navarro	Trinity	Add new well in Nacatoch Aquifer	50	High	$32,000	$72	Low	Low	Low	Consistent	Consistent
Parker County														
	Aledo		Parker	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	17	Low	$0	$48	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Aledo		Parker	Trinity	Begin purchasing TRWD water thru Weatherford	1,059	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Annetta		Parker	Trinity	Add new well & overdraft Other Aaquifer thru 2010.	18	Low	$374,000	$239	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Annetta		Parker	Trinity	Begin purchasing TRWD water thru Weatherford	1,157	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Azle	P	Parker	Trinity	Continue purchasing water from TRWD	159	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Briar	P	Parker	Trinity	Continue purchasing water from Community WSC (TRWD)	52	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Hudson Oaks		Parker	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	39	Low	$0	$44	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Hudson Oaks		Parker	Trinity	Begin purchasing water from TRWD	2,802	High	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Reno		Parker	Trinity	Continue purchasing water from Springtown (TRWD)	161	High	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Springtown		Parker	Trinity	Continue purchasing water from TRWD	266	High	$0	$0	Low	Low	Low	Consistent	Consistent
	Springtown		Parker	Trinity	Water Treatment Plant Expansion in 2010	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Springtown		Parker	Trinity	Water Treatment Plant Expansion in 2030	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Weatherford		Parker	Trinity	Overdraft Lake Weatherford in 2000	1,972	Low	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Weatherford		Parker	Trinity	Construct pipeline to Lake Benbrook (TRWD) by 2010	19,938	High	$0	$0	Low-Moderate	Low	Low	Consistent	Consistent
	Weatherford		Parker	Brazos	Overdraft Lake Weatherford in 2000	93	Low	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Weatherford		Parker	Brazos	Construct pipeline to Lake Benbrook (TRWD) by 2010	1,040	High	$0	$0	Low-Moderate	Low	Low	Consistent	Consistent
	Weatherford		Parker	Trinity	Pipeline from Lake Benbrook	0	High	$9,000,000	$343	Low	Low	Low	Consistent	Consistent
	Weatherford		Parker	Trinity	Parallel Pipeline from Lake Benbrook	0	High	$13,375,000	$357	Low	Low	Low	Consistent	Consistent
	Weatherford		Parker	Trinity	Treated water transmission lines to Southest Parker County Phase I	0	High	$3,582,000	$583	Low	Low	Low	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
	Weatherford		Parker	Trinity	Treated water transmission lines to Southest Parker County Phase II	0	High	$3,582,000	$583	Low	Low	Low	Consistent	Consistent
	Weatherford		Parker	Trinity	Water Treatment Plant Expansion	0	High	$27,221,000	$368	Low	Low	Low	Consistent	Consistent
	Willow Park		Parker	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	36	Low	$0	$48	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Willow Park		Parker	Trinity	Begin purchasing TRWD water thru Weatherford	3,813	High	$0	$0	Low	Low	Low	Consistent	Consistent
	County-Other		Parker	Trinity	Add new well & overdraft Trinity Aquifer through 2010.	616	Low	$3,737,000	$239	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	County-Other		Parker	Trinity	Continue purchasing water from Walnut Creek SUD (TRWD)	4,353	High	$0	$0	Low	Low	Low	Consistent	Consistent
	County-Other		Parker	Brazos	Add new well & overdraft Trinity Aquifer through 2010.	272	Low	$935,000	$239	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	County-Other		Parker	Brazos	Continue purchasing water from Walnut Creek SUD (TRWD)	2,155	High	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Manufacturing		Parker	Trinity	Surface water from Lake Benbrook (TRWD).	259	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Manufacturing		Parker	Brazos	Add new well & overdraft Trinity Aquifer through 2010.	21	High	$49,000	$68	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Manufacturing		Parker	Brazos	Begin purchasing water from TRWD (thru Weatherford)	142	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Steam Electric Power		Parker	Trinity	Weatherford reuse (pipeline from Benbrook)	3,000	High	$1,947,000	$1,947,000	Low-Moderate	Low	Low	Consistent	Consistent
	Steam Electric Power		Parker	Trinity	Weatherford indirect reuse (pipeline from Benbrook)	3,000	High	$1,947,000	$1,947,000	Low-Moderate	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Parker	Trinity	Begin purchasing water from TRWD (thru Weatherford) (pipeline from Benbrook)	3,000	High	$5,821,000	$5,821,000	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Parker	Trinity	Begin purchasing water from TRWD (thru Weatherford) (pipeline from Benbrook)	3,000	High	$5,821,000	$5,821,000	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Mining		Parker	Trinity	Add new well & overdraft Trinity Aquifer through 2000.	15	Low	$49,000	$101	Low	Low	Low	Consistent	Consistent
	Mining		Parker	Trinity	Reallocate Trinity Aquifer (new well)	30	Moderate	$0	$101	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Mining		Parker	Trinity	Begin purchasing water from TRWD	43	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Mining		Parker	Trinity	Add diversions from Other Local Supply	40	Moderate	$0	$200	Low	Low	Low	Consistent	Consistent
	Mining		Parker	Brazos	Increase diversions from Other local Supply	2,990	Moderate	$0	$200	Low	Low	Low	Consistent	Consistent
Rockwall County														
Dallas	Dallas	P	Rockwall	Trinity	Continue purchasing water from DWU	7	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
North Texas Municipal Water District	Heath		Rockwall	Trinity	Continue purchasing water from RCH WSC (thru Rockwall from NTMWD)	1,894	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Rockwall		Rockwall	Trinity	Continue purchasing water from NTMWD	15,414	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Rowlett	P	Rockwall	Trinity	Continue purchasing water from NTMWD	4,809	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Royse City	P	Rockwall	Sabine	Continue purchasing water from NTMWD	3,637	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent

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Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
North Texas Municipal Water District	Wylie	P	Rockwall	Trinity	Continue purchasing water from NTMWD	9	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	County-Other		Rockwall	Sabine	Increase supply from NTMWD	276	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	County-Other		Rockwall	Trinity	Increase supply from NTMWD	324	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Manufacturing		Rockwall	Trinity	Increase supply from NTMWD	4	High	$0	$0	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
North Texas Municipal Water District	Steam Electric Power		Rockwall	Sabine	NTMWD inidrect reuse	6,000	High	$4,795,000	$321	See NTMWD above	See NTMWD above	See NTMWD above	Consistent	Consistent
Tarrant County														
Tarrant Regional Water District	Arlington		Tarrant	Trinity	Continue purchasing water from TRWD	23,474	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Arlington		Tarrant	Trinity	Water Treatment Plant Expansion	N/A	High	$25,665,000	$215	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Azle	P	Tarrant	Trinity	Continue purchasing water from TRWD	916	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Trinity River Authority	Bedford		Tarrant	Trinity	Continue purchasing water from TRA (TRWD)	3,515	High	$0	$0	See TRA and TRWD above	See TRA and TRWD above	See TRA and TRWD above	Consistent	Consistent
	Benbrook		Tarrant	Trinity	Water Treatment Plant Expansion in 2020	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Benbrook		Tarrant	Trinity	Water Treatment Plant Expansion in 2040	0	High	$1,406,000	$446	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Blue Mound		Tarrant	Trinity	Continue purchasing water from Tecon (TRWD)	97	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Briar	P	Tarrant	Trinity	Continue purchasing water from Community WSC (TRWD)	258	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth	Burleson		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Burleson		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	892	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	Colleyville		Tarrant	Trinity	Continue purchasing water from TRA (TRWD)	9,384	High	$0	$0	See TRA and TRWD above	See TRA and TRWD above	See TRA and TRWD above	Consistent	Consistent
Fort Worth	Crowley		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Crowley		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	2,958	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Dalworthington Gard.		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Dalworthington Gard.		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	1,704	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Edgecliff		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Edgecliff		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	924	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	Euless		Tarrant	Trinity	Continue purchasing water from TRA (TRWD)	11,114	High	$0	$0	See TRA and TRWD above	See TRA and TRWD above	See TRA and TRWD above	Consistent	Consistent

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Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Fort Worth	Everman		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Everman		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	1,028	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Forest Hill		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Forest Hill		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	3,257	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Tarrant Regional Water District	Fort Worth		Tarrant	Trinity	Continue purchasing water from TRWD	43,914	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Dallas	Grand Prairie	P	Tarrant	Trinity	Renew DWU contract	0	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Dallas	Grand Prairie	P	Tarrant	Trinity	Continue purchasing water from DWU	11,125	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Fort Worth	Grand Prairie	P	Tarrant	Trinity	Continue purchasing water from Fort Worth	561	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	Grapevine	P	Tarrant	Trinity	Continue purchasing water from TRA (TRWD)	1,385	High	$0	$0	See TRA and TRWD above	See TRA and TRWD above	See TRA and TRWD above	Consistent	Consistent
	Grapevine	P	Tarrant	Trinity	Direct reuse	1,495	High	$4,003,000	$331	Low-Moderate	Low	Low	Consistent	Consistent
Dallas	Grapevine	P	Tarrant	Trinity	Begin purchasing water from DWU	1,997	High	$0	$0	See Dallas above	See Dallas above	See Dallas above	Consistent	Consistent
Fort Worth	Haltom City		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Haltom City		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	11,439	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Haslet		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Haslet		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	700	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Hurst		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Hurst		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	11,344	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Keller		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Keller		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD). NETCREW	15,480	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
	Kennedale		Tarrant	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	1,018	High	$1,319,000	$274	Low	Low	Low	Consistent	Consistent
Fort Worth	Kennedale		Tarrant	Trinity	Begin purchasing water from Fort Worth (TRWD)	2,358	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Kennedale		Tarrant	Trinity	Begin purchasing water from Arlington (Fort Worth)	2,358	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Lake Worth Village		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Lake Worth Village		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	1,404	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent

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Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Tarrant Regional Water District	Mansfield	P	Tarrant	Trinity	Continue purchasing water from TRWD	4,657	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Mansfield	P	Tarrant	Trinity	Water Treatment Plant Expansion by 2010	0	High	$14,063,000	$264	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Mansfield	P	Tarrant	Trinity	Water Treatment Plant Expansion by 2040	0	High	$15,469,000	$249	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth	North Richland Hills		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	North Richland Hills		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	16,090	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	North Richland Hills		Tarrant	Trinity	Continue purchasing water from TRA (TRWD)	727	High	$0	$0	See TRA and TRWD above	See TRA and TRWD above	See TRA and TRWD above	Consistent	Consistent
	Pantego		Tarrant	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	400	Low	$0	$82	Low	Low	Low	Consistent	Consistent
Fort Worth	Pantego		Tarrant	Trinity	Begin purchasing water from Fort Worth (TRWD)	517	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Pantego		Tarrant	Trinity	Begin purchasin water from Arlington (Fort Worth)	517	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
	Pelican Bay		Tarrant	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	167	Low	$655,000	$299	Low	Low	Low	Consistent	Consistent
	Pelican Bay		Tarrant	Trinity	Reallocate Trinity Aquifer (new well)	240	Moderate	$0	$299	Low	Low	Low	Consistent	Consistent
	Pelican Bay		Tarrant	Trinity	Reallocate Trinity Aquifer (existing well)	160	Moderate	$0	$82	Low	Low	Low	Consistent	Consistent
Fort Worth	Richland Hills		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Richland Hills		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	3,634	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Tarrant Regional Water District	River Oaks		Tarrant	Trinity	Continue purchasing water from TRWD	266	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth	Saginaw		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Saginaw		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	5,230	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Sansom Park Village		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Sansom Park Village		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	857	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Southlake	P	Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Southlake	P	Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD). NETCREW	22,270	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Watauga		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Watauga		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	7,760	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Westworth Village		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Fort Worth	Westworth Village		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	512	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	White Settlement		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	White Settlement		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	3,312	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	County-Other		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	County-Other		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	24,407	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Trinity River Authority	County-Other		Tarrant	Trinity	TRA Indirect Reuse (Denton Creek Plant)	2,500	High	$1,326,000	$1,326,000	See TRA above	See TRA above	See TRA above	Consistent	Consistent
	County-Other		Tarrant	Trinity	Northeast Tarrant County Regional Water System (from Fort Worth to Keller, Roanoke, Southlake, Trophy Club, Westlake/Lake Turner MUDs)	0	High	$9,824,000	N/A	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Manufacturing		Tarrant	Trinity	Continue purchasing water from TRWD	16,980	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth	Manufacturing		Tarrant	Trinity	Renew Fort Worth Contract	0	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Fort Worth	Manufacturing		Tarrant	Trinity	Continue purchasing water from Fort Worth (TRWD)	7,297	High	$0	$0	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Tarrant	Trinity	Continue purchasing water from TRWD	3,393	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Fort Worth	Steam Electric Power		Tarrant	Trinity	Fort Worth reuse	2,600	High	$2,909,000	$2,909,000	See Fort Worth and TRWD above	See Fort Worth and TRWD above	See Fort Worth and TRWD above	Consistent	Consistent
Wise County														
	Alvord		Wise	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	14	Low	$177,000	$224	Low	Low	Low	Consistent	Consistent
	Alvord		Wise	Trinity	Reallocate Trinity Aquifer (new well)	80	Moderate	$0	$224	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Alvord		Wise	Trinity	Begin purchasing water from TRWD	73	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Aurora		Wise	Trinity	Add new well & overdraft Trinity Aquifer thru 2000.	32	Low	$177,000	$224	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Aurora		Wise	Trinity	Begin purchasing water from Walnut Creek SUD (TRWD)	278	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Boyd		Wise	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	58	Low	$0	$0	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Boyd		Wise	Trinity	Begin purchasing water from Walnut Creek SUD (TRWD)	627	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Briar	P	Wise	Trinity	Continue purchasing water from Community WSC (TRWD)	58	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Bridgeport		Wise	Trinity	Continue purchasing water from TRWD	360	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Bridgeport		Wise	Trinity	Water treatment plant expansion in 2000	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Bridgeport		Wise	Trinity	Water treatment plant expansion in 2030	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent

Table P-2
Evaluation of Alternatives for Water Management Strategies in Region C

Major Water Provider Name (If Applicable)	Water User Group Name	Partial	County Name	Basin Name	Strategy	Maximum Quantity of Water Made Available (Acre-Feet per Year)	Reliability of Supply	Total Capital Cost	Highest Unit Cost ($ per Acre-Foot)	Environmental Impacts	Impacts on Water Resources and Other Water Management Strategies	Impacts on Agriculture and Natural Resources	Consistency with Supplier Plans	Consistency with Other Regions
Tarrant Regional Water District	Chico		Wise	Trinity	Continue purchasing water from West Wise WSC (TRWD)	41	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Decatur		Wise	Trinity	Continue purchasing water from Wise County WSC (TRWD)	400	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Decatur		Wise	Trinity	Water treatment plant expansion in 2010	0	Low	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Decatur		Wise	Trinity	Water treatment plant expansion in 2050	0	Low	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	Newark		Wise	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	44	Low	$190,000	$141	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Newark		Wise	Trinity	Begin purchasing water from Walnut Creek SUD (TRWD)	358	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	Rhome		Wise	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	33	Low	$0	$44	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Rhome		Wise	Trinity	Begin purchasing water from Walnut Creek SUD (TRWD)	301	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	County-Other		Wise	Trinity	Continue purchasing water from TRWD	6,443	High	$0	$0	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
	County-Other		Wise	Trinity	Purchase water from UTRWD (Lake Chapman)	221	Low	$0	$0	See UTRWD Cost	See UTRWD Cost	See UTRWD Cost	Consistent	Consistent
	County-Other		Wise	Trinity	Purchase water from UTRWD (Reuse)	199	Low	$0	$0	See UTRWD Cost	See UTRWD Cost	See UTRWD Cost	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2000 Community WSC	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2020 Community WSC	0	High	$2,813,000	$446	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2010 Walnut Creek SUD	0	High	$14,977,000	$277	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2020 Walnut Creek SUD	0	High	$4,993,000	$404	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2030 Walnut Creek SUD	0	High	$4,993,000	$404	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2040 Walnut Creek SUD	0	High	$4,993,000	$404	Low	Low	Low	Consistent	Consistent
	County-Other		Wise	Trinity	Water treatment plant expansion in 2050 Walnut Creek SUD	0	High	$4,993,000	$404	Low	Low	Low	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Wise	Trinity	TRWD contract for 4,256 AF/Y with Duke	4,256	High	$7,918,000	$475	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Wise	Trinity	Renew Duke Contract with TRWD	4,256	High	$0	$475	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Wise	Trinity	TRWD contract for 3,548 AF/Y with Tractebel	3,548	High	$7,027,000	$484	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Wise	Trinity	Renew Tractebel Contract with TRWD	3,548	High	$0	$484	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent
Tarrant Regional Water District	Steam Electric Power		Wise	Trinity	Purchase water from TRWD	3,396	High	$6,793,000	$485	See TRWD above	See TRWD above	See TRWD above	Consistent	Consistent

Note:
* UTRWD's present contract with DWU is limited to a total of 10 MGD to UTRWD for cities not specifically named in the contract. DWU has made no commitment for future service to cities not specifically named in the contract, and future serve will require future city council action.

APPENDIX Q

ENVIRONMENTAL EVALUATION

APPENDIX Q
ENVIRONMENTAL EVALUATION

This appendix addresses environmental issues associated with Region C water management strategies. Categories of environmental issues evaluated include:

- Instream flows;
- Bay and estuary flows;
- Wildlife habitat
- Cultural resources;
- Wetlands; and
- Water quality.

Environmental Assessment Tables

Table Q-1 lists the general strategies that are defined in Senate Bill 1. These strategies range from fully adoptable to impracticable for implementation in region C. Table Q-1 has been structured to display those strategies that have been recommended in Region C. In some cases the strategy involves a major construction component that has environmental issues in itself. For example, pipelines and pump stations are necessary to implement several of the strategies. Table Q-1 includes these components and provides an assessment for them as well as the strategy itself. Table Q-2 lists regional water management strategies contemplated for Region C and the associated environmental issues. Table Q-3 lists the environmental issues for water management strategies associated with major water providers and other regional suppliers. Table Q-4 lists the environmental issues for water management strategies associated with each water user group in Region C. Rankings are provided in each table, shown as low, moderate, high, or a combination of low, moderate or high. This ranking system is based on the degree of difficulty necessary to either avoid the specific environmental issue or to mitigate it. Where appropriate a narrative explanation has been provided in the tables to provide additional information. More specific information on reservoir sites was referenced from documents and studies performed for the planned sites. These sources are found as (21),

(22), (39), (63), (64), (65), (70) and (71) in Appendix A, List of References, for the Region C Plan.

The tables do not include any discussion of effects that can logically be considered as low or non-existent. An example of a low effect is an administrative action such as renewal of existing water supply contracts. Another example is installation of a new well when sufficient groundwater supply exists.

General Strategies

Table Q-1 contains environmental impacts of general strategies that are feasible for Region C:

- New Water Supply Development
  Reservoir Construction
  Adding a New Well
  Pipeline and Pump Station Construction;
- Connecting to Existing Sources
- Interbasin Transfers
- Reservoir System Operations
  Overdrafting Reservoirs
  Temporary Aquifer Overdrafting;
- Reuse of Wastewater
- Desalination
- Water Conservation
- Emergency Management and Drought Response
- Reallocation to New Uses
- Water Management Strategies in Current State Water Plan
- Brush Control

The following strategies were not included in Tables Q-1 through Q-4 as having specific project identification or applicability at this time:

Voluntary Transfer of Water Rights
Voluntary Subordination of Water Rights
Control of Naturally Occurring Chlorides
Precipitation Enhancement
Water Right Cancellation

Aquifer Storage and Recovery

An assessment of the various General Strategies, or their individual components, is provided below.

New Supply Development

Reservoir Construction

In general, reservoir construction can result in changes in the following environmental conditions.

Instream Flows: Construction of a reservoir will result in a change in downstream flow conditions. The environmental effect, both positive and negative, will be assessed during the reservoir permitting process. Mitigation of negative effects, such as maintaining instream flow conditions, will be a component of the permit(s) provisions.

Bay - Estuary Flows: Construction of a reservoir may change the flow pattern that enters downstream bays and estuaries. The projections for bay and estuary needs are subject to refinement as site-specific data is gathered regarding water quality conditions and fishery production. Sources of inflow to bays and estuaries include gaged and ungaged streams within contributing basins.

Wildlife Habitat: Construction of a reservoir creates a new wildlife habitat for fisheries and other aquatic animals. The inundation of lowland stream channels and riparian corridors will result in changing the nature of the aquatic and terrestrial habitat.

Cultural Resources A reservoir may impact cultural resources by the construction of the dam and spillway or inundation of certain areas. Impacts on cultural resources will be minimized during the design and construction process and will be mitigated during the permitting process

Wetlands Wetlands may be impacted both within the impoundment area and downstream of the dam. Oftentimes significant areas are altered.

Water Quality Reservoirs can affect the quality of water by changing from a riverine environment of varying flow regimes to a pool environment. The resulting water quality depends to a large degree on the characteristics of the upstream drainage area (i.e.,

non-point discharge sources and wastewater return flows.) Additionally, the physical characteristics and hydrology of the reservoir has an effect on water quality conditions. A reservoir can serve to improve water quality by removing and reducing pollutants such as sediments with their attached chemical constituents. Ponded water within the reservoir can also result in an increase in algae and macrophyte levels, a naturally occurring process that can be stimulated by nutrients (i.e., phosphorous and nitrogen). Water quality within reservoirs can be managed to a large degree by watershed management programs. Actions for controlling the water quality conditions to ensure the quality is suitable for its intended use will be dictated by the Texas Natural Resource Conservation Commission Water Quality Standards.

Adding New Wells

The addition of new wells is recommended in those cases where sustainable groundwater is available within the aquifers that underlie the region. Environmental impacts of groundwater wells are minor and are usually limited to the construction of pipelines and pump stations. Since groundwater wells are an alternative to surface water use, the strategy of adding wells represents an avoidance of environmental conflicts with developing surface water resources.

Pipeline and Pump Station Construction (a major component of Reservoir Construction, Interbasin Transfers, Reuse projects and Groundwater projects)

Careful selection of pipeline routes and construction methodology for stream crossings can limit the environmental issues associated with pipelines and pump stations. The preferred route for pipelines is along existing road right-of-ways or in existing rights-of ways for other utility systems. Whereas this does not obviate the need for consideration of environmental study of the proposed route, it does locate the construction in areas where other construction has already taken place. Where pipelines are planned for areas where no other utilities or roadways exist, or where economics favor other alignments, there is usually a choice of possible alignments, such that the pipeline can be routed around areas where known cultural resources exist, or where a critical wildlife habitat is known. Stream crossings can be selected based on careful investigation of habitat and aquatic environment within the reach. If conflicts exist that

cannot be resolved by relocating the crossing, other construction techniques, such as tunneling can be used to limit intrusion into the streambed and riparian corridor.

Connecting to Existing Sources

The principal component of connecting to existing sources is pipeline and pump station construction. The strategy provides for the use of reserves that are currently available. In the case of reservoirs the use will have some effect on the stage-frequency of the lake level and the number of spills from the reservoir.

Interbasin Transfer

Depending on location, interbasin transfer and interstate transfer of water can affect instream flows, bays and estuary flows, wildlife habitat and cultural resources and water quality. In general there is a decrease in flows in the basin of origin while the flows in the receiving basin are increased, by at least the amount the return flows are released to the streams. Water quality issues may arise related to organisms from one basin being imported to another. In the case of Region C all proposed interbasin transfers are from basins from which water is currently being imported. Other issues include the regulatory difficulty in affecting interbasin transfers.

Reservoir System Operations

Overdrafting Reservoirs

Operating a series of reservoirs as a system can maximize the yield from the reservoirs. Often this is accomplished by overdrafting reservoirs at the lowest portion of the basin, or overdrafting the reservoirs that are in areas of higher annual rainfall. Overdrafting a reservoir increases available storage and results in a decrease in downstream spills. Lower lake levels associated with overdrafting could have an effect on wildlife habitat by changing the littoral zone of the lake. Finally, lower lake volumes could have a water quality impact on the lake.

Temporary Aquifer Overdrafting

Overdrafting aquifers as a strategy can only be contemplated for short-term duration until alternate supplies can be obtained. Overdrafting can have adverse effects, such as localized surface subsidence, loss of flows to springs, permanent loss of reservoir capacity, and impact on yields of neighboring wells. The actual impact may have only minimal effect on the above factors and must be determined on a case-by-case basis. In those cases where resolution of additional supplies might be a lengthy process, establishment of groundwater conservation districts may be considered for managing groundwater supplies on a district-wide basis.

Water Reclamation and Reuse

The reuse of reclaimed water (i.e., treated wastewater) is a water management strategy that can be a significant supply source for meeting water demands. Reclaimed water has historically been used for irrigation and certain industrial purposes. The use of reclaimed water for supplementing water supplies is currently being pursued within Region C as well as across the country. The practice of water reclamation and reuse serves as an effective water conservation measure.

The quality of reclaimed water has to satisfy the Texas Natural Resource Conservation Commission (TNRCC) rules and regulations for it to be suitable for irrigation purposes. Additionally, the water quality of reclaimed water for supplementing water supplies must result in the quality of a blend of reclaimed water and natural water meeting Safe Drinking Water Standards for potable use.

In addition to the water quality issues sited above, the potential effect on instream flows has to be assessed. The use of reclaimed water may alter the instream flows. However, this effect on instream flow is projected to be offset by population growth and resulting wastewater return flows in Region C. The environmental issue will be addressed during the water reuse permitting process.

Desalination

Raw water supplies from the Red River and within Lake Texoma are being evaluated as appropriate strategies. Because of the chloride concentration in the water, desalination will be necessary to make the water potable. This will result in a waste stream with concentrated chloride and dissolved solids constituents. In that the waste stream will not be suitable for discharging into nearby water courses, the disposal of the waste stream will require special evaluation as to options which might be feasible.

Water Conservation

Water Conservation has been made part of all strategies. Water User Group demand figures reflect the decreased per capita consumption. Actual per capita usage must be evaluated over the years to determine whether conservation goals are being achieved or whether more active public awareness/information programs or other strategies should be instituted.

Reallocation of Reservoir Storage to New Uses - Reallocation of Groundwater

In some counties where the available groundwater is fully allocated to meet current water demands, the implementation of surface water strategies is expected to free up groundwater at various times during the planning period. The groundwater made available can be reallocated to other uses with no attendant environmental impacts.

Water Management Strategies in Current Water Plan –Contract Renewal

The strategies selected follow the projects in the current Water Plan. "Contract Renewal" has been identified with that strategy. There are no direct environmental impacts due to water user groups renewing contracts with a water supplier. In general, the individual contract user demands are aggregated into a single demand on the part of the supplier. The environmental impacts are associated with the total project. In the case of a surface water supplier, the project will have been permitted by the state. Conditions established for operations, such as releases to sustain instream flows, will be part of the permit.

Brush Control

Brush control is not adopted as a regional strategy, however, it is recognized that brush control has local application, particularly in livestock operations. Brush control will serve to improve the amount of instream flow by increasing the amount of rainfall runoff that reaches the stream; however, it will result in a loss of habitat for wildlife. Brush control projects will require assessments on a site-specific basis.

Regional Strategies

The greatest potential for environmental changes are generally associated with water management strategies that might be adopted by the major water providers (Dallas Water Utilities (DWU), North Texas Municipal Water District (NTMWD), Tarrant Regional Water District (TRWD), the City of Fort Worth, and the Trinity River Authority (TRA), and by regional suppliers, such as the Upper Trinity Regional Water District (UTRWD). Water management strategies by such entities include:

- Construction of new water supply reservoirs;
- Construction of pump stations and pipelines;
- Water reclamation and reuse;
- Interbasin transfer of water;
- Interstate transfer of water; and
- System operation of reservoirs (including overdrafting).

Regional strategies are shown in Tables Q-2 and Q-3.

Subregional Strategies

A number of water management strategies for Region C involve local entities acting individually or in cooperation with the regional water suppliers shown in Table Q-3. The specific local strategies are summarized in Table Q-4.

The environmental issues associated with the local strategies are generally presented in the Tables Q-1, Q-2 and Q-3 for General Strategies and Regional Strategies. If that is the case the assessments are not repeated in Table Q-4. Only assessments unique to a specific local strategy are presented in Table Q-4. Other than typical water supply projects the local strategies also include:

- Reuse of reclaimed wastewater for cooling at steam electric power plants;
- Increased diversions from local reservoirs;
- Overdrafting of local reservoirs;
- Reuse of reclaimed wastewater for golf course irrigation; and
- Conversion of water from one type of use to another (i.e. Mining to Manufacturing).

Table Q-1
Environmental Issues for General Strategies for Water Management

Strategy	Strategy Components	Level of Difficulty to Address Environmental Issues (1)								Issues to be Addressed and Resolved During Planning and Design (See narrative section of Appendix for additional considerations)
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
NEW SUPPLY DEVELOPMENT	Reservoir Construction	M	L - M	M - H	L - H	L - H	L - M		M - H	**Instream Flows.** Loss of instream flows in the impounded section. Alteration of flow frequency below the dam, including possible dampening of high flows and more reliable low flow periods. **Bay and Estuary Flows** will be altered by the amount of water diverted from the reservoir and increased evaporation losses. **Wildlife Habitat** will be affected to the extent that impoundment will cover stream and riparian corridors**.** Unique species may have critical habitats changed**. Cultural Resources** will be subjected to permanent inundation or relocation during construction of the dam and appurtenances. **Wetlands** will be permanently altered in the impoundment area and may be affected downstream. **Water Quality** issues range from effects of nutrient accumulation to sedimentation depending on watershed management practices. Changes in downstream flow regime could also affect water quality.
	Add Groundwater Wells)	L	L	L	L	L	L		L	This strategy is feasible when sustainable groundwater is available. **Instream Flows** are indirectly increased by the return flows from groundwater use in municipal and industrial applications. Depending on the type of well field, a large, area-wide system
	Pipeline and Pump Station Construction	L	L	L	L	L	L		L	**Wildlife Habitat and Cultural Resources** will need to be assessed with respect to pipeline alignment and location and manner of stream crossings so that the effect on wildlife habitat and cultural resources can be minimized during the route selection and design.
INTERBASIN TRANSFER	Interbasin transfer	L	L	L - M	L	L	L - H	L - H	L - H	**Instream Flows** in the receiving water, if discharge is to a stream, will be increased which may cause changes in the steam bottom and bank configuration. Flows in the donor water system will be reduced. **Wildlife Habita**t will be affected by either the diminution of flows in the donor system and increase inflows in the recipient system. **Bays and Estuaries** below the donor water systems will have a reduction in the amount of flows. Bays and estuaries below the receiving waters will have an increase in the amount of flow. **Other**: Regulatory issues will have to be addressed in accomplishing interbasin transfer.
	Pipeline and Pump Station Construction									See Pipeline and Pump Station Construction above.
	New Supply Development or Connect to Existing Sources									See Reservoir Construction or Add Groundwater Well(s) above

Strategy	Strategy Components	Level of Difficulty to Address Environmental Issues (1)								Issues to be Addressed and Resolved During Planning and Design (See narrative section of Appendix for additional considerations)
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
CONNECT TO EXISTING SOURCES	Utilize storage in existing reservoirs	L - M	L - M	L	L	L	L		L	**Instream and Bays and Estuaries Flows:** The diversion of stored water to other uses will reduce the number of spills from the reservoir that have been historically experienced.
	Pipeline and Pump Station Construction									See Pipeline and Pump Station Construction above.
REALLOCATION OF STORAGE TO OTHER USES	Reservoirs									No impacts other than change in user or category of user
	Groundwater	L - M	L	L	L	L	L		L	**Instream Flows** : Depending on the project, a large, area-wide well field system could affect spring flow and base flow to streams.
RESERVOIR SYSTEM OPERATIONS	Temporary Overdrafting of Reservoirs	M	L	L	L	L	M		L - M	**Instream Flows** : Reservoir overdraft would increase available storage which could result in a decrease in the frequency of downstream spills. **Wildlife Habitat:** Lower lake levels could have an effect on wildlife habitat by changing the littoral zone of the lake. **Water Quality**: Reduced lake water volumes could affect water quality.
	Temporary Aquifer Overdrafting	L - M	L	L	L	L	L		L	**Instream Flows** may be affected by reduction in spring flows where the aquifer is hydraulically connected to springs.
REUSE OF WASTEWATER	Reuse	L - H	L	L	L	L	L - M		L - M	**Instream Flows** may be affected by the reduction in return flows that here-to-fore were returned to the streams. Any reduction will be offset to some degree by the increase in total return flows related to population growth in the upstream areas. **Bays and Estuarie**s effects, if any, must be assessed in accordance with State of Texas guidelines.
	Pipeline and Pump Station Construction									See Pipeline and Pump Station Construction above.
DESALINATION	Desalination	L	L	L	L	L	L-H		L	**Water Quality:** Desalination will result in a waste stream with high dissolved solids and chloride concentrations that most likely can not be discharged to receiving streams and will require alternative disposal options such as deep well injcection or landfilling . Desalination, if accomplished, would require importation from other basins, or groundwater sources. Therefore, there would be no dimunition of existing stream flow nor effects to habitat.
WATER CONSERVATION	Water Conservation	L	L	L	L	L	L	M	L	**Other:** Water conservation is included in all strategies. Periodic confirmation of conservation results are necessary to gauge progress. Increased public awareness measures may be required.

Strategy	Strategy Components	Level of Difficulty to Address Environmental Issues (1)								Issues to be Addressed and Resolved During Planning and Design (See narrative section of Appendix for additional considerations)
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
WATER MANAGEMENT STRATEGIES - TEXAS WATER PLAN	Contract Renewal	L	L	L	L	L	L		L	
BRUSH CONTROL	Adopted for as local strategy	L	L	L	L	L	L		L	Brush control will tend to increase instream flows and decrease wildlife habitat.

Table Q-2
Environmental Issues for Region C Water Management Strategies
Selected Regional Water Supply Projects

Entity	County	Basin	Project	Level of Dificulty to Address Environmental Issues (1)								Issues to be Addressed and Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
DWU, NTMWD, TRWD			Marvin Nichols I Reservoir Site & Connecting Pipeline/Pump Station(s)	M	L	H	M-H	H	L		H	See comments on Reservoir Construction and Interbasin Transfers in Table 1. **Instream Flows and Wildlife Habitat:** The proposed reservoir will inundate approximately 62,100 acres, including a portion of the Sulphur River Bottom West/Cuckoo Pond bottomland hardwood area (USFWS Priority I area). **Water Quality** issues include inundating oil and gas wells and lignite deposits/mines.
	Fannin		Ralph Hall Reservoir Site	M	L	M	L-M	M	L	M	M	See comments on Reservoir Construction and Interbasin Transfer in Table 1. **Other:** One of the purposes of Ralph Hall Reservoir is to address erosion problems along the North Fork of the Sulphur River. There is some potential for conflict with the Caddo National Grasslands in southern Fannin County.
	Fannin		Upper Bois d'Arc Creek Reservoir Site	M	L	M	L - M	M	L		M	See comments on Reservoir Construction and Interbasin Transfer in Table 1.
DWU, NTMWD, TRWD			Marvin Nichols II Reservoir Site	M	L	H	M - H	H	L	M		See comments on Reservoir Construction and Interbasin Transfer in Table 1. **Instream Flows and Wildlife Habitat** will be affected to some degree since the reservoir will inundate parts of the White Oak Creek Wildlife Management Area, lowland stream channels, bottomland hardwoods (including the White Oak bottomland hardwoods, A USFWS Priority 1 area) and wetland areas.
DWU, NTMWD, TRWD			George Parkhouse I Reservoir Site	M	L	H	L - M	H	L		M - H	See comments on Reservoir Construction and Interbasin Transfer in Table 1. **Wildlife Habitat**: Some of the mitigation areas associated with the Lake Chapman project will be inundated.
DWU, NTMWD, TRWD			George Parkhouse II Reservoir Site	M	L	H	M - H	H	M		M - H	See comments on Reservoir Construction in Table 1.
Water User Groups in Cooke County	Cooke	Red, Trinity	Cooke County Regional Supply System (Treatment and Pipeline)	L	L	L	L	L	L		L	See comments for Pipeline and Pump Station Construction in Table 1
Water User Groups in Cooke County	Grayson	Red, Trinity	Grayson County South Regional Supply System (Treatment and Pipeline) with Raw Water Source from Lake Texoma	L	L	L	L	L	M		L	See comments for Pipeline and Pump Station Construction in Table 1. **Water Quality**: This alternative will require desalination and disposal of a brine waste stream.
Pottsboro, Grayson County-Other	Grayson	Red	Grayson County North Regional Supply System (Treatment and Pipeline) with Raw Water Source from Lake Texoma	L	L	L	L	L	M		L	See comments for Pipeline and Pump Station Construction in Table 1. **Water Quality**: This alternative will require desalination and disposal of a brine waste stream.

Table Q-3
Environmental Issues for Region C Water Management Strategies
Major Water Providers and Other Regional Suppliers

Entity	Project	Level of Difficulty to Address Environmental Issues (1)								Issues to be Addressed and Resolved During Planning and Design
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
NTMWD	Additional Reuse of Water from Wilson Creek WWTP	L	L	L	L	L	M		L	See Reuse from Table 1. **Water Quality:** The wastewater treatment level and effects of additional discharge of treated wastewater into Lake Lavon must be assessed.
NTMWD	Increase Water Supply from Lake Texoma	L	L	L	L	L	M	L	M	See Pipeline and Pump Station Construction and Interbasin Transfer from Table 1. **Instream Flows** of Sister Grove creek will be increased with attendant effects on streambank morphology. **Water Quality** issues related to the raw water quality of Lake Texoma water will require evaluation as to blending with other sources and treatment options.
NTMWD	Oklahoma Water: Pipeline and Pump Stations to Transport Water from Oklahoma to Chapman Lake	L	L	L	L	L	L	L	L	See Pipeline and Pump Station Construction and Interbasin Transfers from Table 1.
NTMWD	Lower Bois d'Arc Creek Reservoir Site & Connecting Pipeline/Pump Station(s)	M	L	M - H	L - M	M - H	L	L	M	See comments for Reservoir Construction, Pipeline and Pump Station Construction, and Interbasin Transfer in table 1. **Wildlife Habitat:** The Bois D'arc Creek bottomland hardwoods area will be inundated. **Other:** The Caddo National Grasslands is located immediately downstream of the area
NTMWD	Marvin Nichols I Reservoir Site & Connecting Pipeline/Pump Station(s)									See Marvin Nichols I Reservoir project in Table 2
NTMWD	Treated Water Transmission System	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction in Table 1.
NTMWD	Substantial Additional Water from Lake Texoma & Connecting Pipeline/Pump Station(s)	L	L	L	L	L	M - H	L	L - M	See comments on Pipeline and Pump Station Construction and Interbasin Transfer in Table 1. **Instream Flows** of Sister Grove creek will be increased with attendant effects on streambank morphology. **Water Quality** issues related to the raw water quality of Lake Texoma water will require evaluation as to blending with other sources and treatment options. Disposal options for brine generated in any desalination project will require evaluation.
NTMWD	Extend Texoma Pipeline from Headwaters of Sister Grove Creek to Lake Lavon.	L	L	L	L	L	L		L	See comments for Pipeline and Pump Station Construction in Table 1. **Instream flows and Wildlife Habitat**. Extension of the pipeline alongside Sister Grove Creek will return the creek to its antecedent condition.
TRWD	Cedar Creek/Richland-Chambers pipeline capacity	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table 1. Construction may be limited to existing pump station expansion

Entity	Project	Level of Difficulty to Address Environmental Issues (1)								Issues to be Addressed and Resolved During Planning and Design
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
TRWD	Reuse from Trinity River. Diversion of Water Through Constructed Wetlands and into Cedar Creek and Richland-Chambers Lakes.	M	L	L	L	L	M		M	See Reuse from Table 1. **Wetlands** will be enhanced as a result of the project**. Water Quality** issues of this strategy are currently being evaluated.
TRWD	Marvin Nichols I Reservoir Site & connecting pipeline/pump station(s)									See Marvin Nichols I Reservoir project in Table 2
TRWD	Oklahoma Water & Connecting Pipeline/Pump Station(s)	M	L	L	L	L	L		L - M	See Pipeline and Pump Station Construction in Table 1. **Instream Flows and Wildlife Habitat:** The effects of discharge into receiving streams regarding the streambank morphology and existing habitat vis-à-vis pipeline lengths and discharge points requires evaluation.
TRWD	West Fork Connection: Pipeline Between Lake Benbrook and Eagle Mountain Lake to Allow Coordinated Operation of East and West Portions of TRWD system.	L	L	L	L	L	L		L	See comments for Pipeline and Pump Station Construction in Table 1. Impacts of system operation are in the process of being studied.
TRWD	Lake Tehuacana	M	L	M - H	M	M - H	L	L - M	M	See comments on Reservoir Construction in Table 1. **Instream Flows and Wildlife Habitat and Wetlands:** Lake Tehuacana would inundate several thousand acres, including mixed bottomland hardwood forest and mixed post oak forest . Mitigation lands will require assessment. **Other**: Natural and mineral resource conflicts may require assessment.
TRWD	Red River/Lake Texoma Water & Connecting Pipeline/Pump Station(s)	M	L	L	L	L	H	L	M	See comments on Pipeline and Pump Station Construction and Interbasin Transfers in Table 1. **Instream Flows** of the upper West Fork of the Trinity River will be increased depending on the location of the pipeline discharge point The increase in stream flow will affect the streambank morphology. **Water Qualit**y issues related to the raw water quality of Red River water will require evaluation as to blending with other sources and treatment options. Disposal options for brine generated in any desalination project will require evaluation.
TRWD	Freestone County Groundwater & Connecting Pipeline/Pump Station(s); Water Transported to Richland-Chambers Reservoir.	L	L	L	L	L	L	M - H	L - H	See Pipeline and Pump Station Construction in Table 1. **Other:** Local groundwater use may be affected. Geohydrology assessments are required to quantify effects
DWU	Renew expiring contracts	L	L	L	L	L	L		L	See Contract Renewal in Table 1
DWU	Existing Return Flows above DWU Lakes	L	L	L	L	L	L		L	See Reuse in Table 1

Entity	Project	Level of Difficulty to Address Environmental Issues (1)								Issues to be Addressed and Resolved During Planning and Design
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
DWU	Additional Temporary Overdraft of Lake Tawakoni and Lake Ray Hubbard	L	L	L	L	L	L	M	L	See Temporary Overdrafting of Reservoirs in Table 1. **Other**: Reservoirs could be depleted during extended droughts.
DWU	Extend Elm Fork Permit	L	L	L	L	L	L	L	L	
DWU	Lake Fork Connection	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction and Interbasin Transfer in Table 1.
DWU	Lake Palestine Connection	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction and Interbasin Transfer in Table 1.
DWU	Marvin Nichols I Reservoir Site & Connecting Pipeline/Pump Station(s)									See Marvin Nichols I Reservoir project in Table 2
DWU	Southside WWTP Reuse and Necessary Pipelines and Pump Stations.	M	L	L	L	L	M		M	See Reuse from Table 1. **Water Quality:** The wastewater treatment level and effects of additional discharge of treated wastewater into Lake Ray Hubbard must be assessed.
DWU	Additional Return Flows to DWU Lakes.	L	L	L	L	L	L		L	See Reuse in Table 1
DWU	Additional Reuse	L	L	L	L	L	M		M	See Reuse in Table 1
Fort Worth	Renew Expiring Contracts	L	L	L	L	L	L		L	See Contract Renewal in Table 1
Fort Worth	Proportion of TRWD projects									See TRWD Strategies in Table 2
TRA	Proportion of TRWD projects									See TRWD Strategies in Table 2
TRA	Reuse Project (Dallas, Denton,Ellis, and Tarrant Counties)	L - M	L	L	L	L	L - M		L	See Reuse in Table 1
TRA	Ellis County Project	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction in Table 1. **Cultural Resources:** An initial study in connection with this alternative indicated no National Register of Historic Places/State Archeological Landmarks; however, some historic farm sites, prison/poor farm site, school site and prehistoric litter sites were found in the general vicinity of pipeline routes.
UTRWD	Connect to Lake Chapman by Pipeline, Transporting Water to Doe Creek above Lake Lewisville for Release into Lake Lewisville	M	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction and Interbasin Transfer in Table 1. **Instream Flows:** Completing the Lake Chapman connection would result in stored water being diverted from Lake Chapman and the Sulphur River system, resulting in a decrease in downstream spills/flows. Effects of increased flow into Doe Creek are being evaluated in the design of the pipeline.
UTRWD	Reuse of Lake Chapman Water	L	L	L	L	L	L		L	See Reuse in Table 1. **Instream Flows:** Since the source of the raw water is from the Sulphur River basin, the reuse of the water will have no effect on instream flows in the Trinity Basin.

Table Q-4
Environmental Impacts of Region C Water Management Strategies
Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Allen	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Blue Ridge	Collin	Trinity	Overdraft Woodbine Aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Blue Ridge	Collin	Trinity	Reallocate Woodbine Aquifer (2020-2050)	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Celina	Collin	Trinity	New UTRWD (DWU) customer									See UTRWD strategies in Table Q-3
Celina	Collin	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Celina	Collin	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Dallas	Collin	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Fairview	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Farmersville	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Frisco	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Garland	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Lucas	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
McKinney	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Melissa	Collin	Trinity	Current NTMWD (thru North Collins WSC) customer									See NTMWD strategies in Table Q-3
Murphy	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
New Hope	Collin	Trinity	Current NTMWD (thru North Collins WSC) customer									See NTMWD strategies in Table Q-3
Parker	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Plano	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Princeton	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Prosper	Collin	Trinity	Overdraft Woodbine Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Prosper	Collin	Trinity	In 2010, new NTMWD customer									See NTMWD strategies in Table Q-3
Prosper	Collin	Trinity	New UTRWD (DWU) customer									See UTRWD strategies in Table Q-3
Prosper	Collin	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Prosper	Collin	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Richardson	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Royse City	Collin	Sabine	Current NTMWD customer									See NTMWD strategies in Table Q-3
Sachse	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Wylie	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
County-Other	Collin	Sabine	Current NTMWD customer									See NTMWD strategies in Table Q-3
County-Other	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Manufacturing	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Collin	Trinity	Reuse	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Gainesville	Cooke		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Gainesville	Cooke		Complete 1 MGD pipeline from Moss Lake by 2000	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction in Table Q-1. Instream Flows and Wildlife Habitat. Completing the Moss Lake pipelines would result in additional waters being diverted from Moss Lake causing decrease in downstream flows and greater fluctuations in the lake elevations.
Gainesville	Cooke		Cooke County Regional Supply System by 2010, Including Construction of a Parallel Pipeline to Moss Lake	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table Q-1. Instream Flows: Increased diversion of water from the lake will reduce the frequency of spills.
Lindsay	Cooke		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Lindsay	Cooke		Cooke County Regional Supply System by 2010, Including Construction of a Parallel Pipeline to Moss Lake	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table Q-1. Instream Flows: Increased diversion of water from the lake will reduce the frequency of spills.
Muenster	Cooke		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Muenster	Cooke		Construct Muenster Lake by 2010	M	L	L - M	L - M	L - M	L		L - M	See comments on Reservoir Construction in Table Q-1. Instream Flows in Brushy Elm Creek below the dam will be altered. The effect on the Elm Fork of the Trinity River, further downstream will be marginal. Wildlife Habitat and Cultural Resources issues will require assessment, both at the reservoir site and downstream
Valley View	Cooke		Overdraft Trinity Aquifer, 2000-2010 and Add New Wells by 2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Valley View	Cooke		New UTRWD customer by 2030									See UTRWD strategies in Table Q-3
County-Other	Cooke		Overdraft Trinity Aquifer, 2000-2010, Add New Wells and Utilize Unaccounted for Annual Recharge	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
County-Other	Cooke		Cooke County Regional Supply System by 2010, Including Construction of a Parallel Pipeline to Moss Lake	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table Q-1. Instream Flows: Increased diversion of water from the lake will reduce the frequency of spills.
County-Other	Cooke		Acquire water from UTRWD by 2030									See UTRWD strategies in Table Q-3
Manufacturing	Cooke		Continue to be supplied by Gainesville									See Gainesville strategies
Manufacturing	Cooke		Continue to be supplied by Muenster									See Muenster strategies
Mining	Cooke		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Irrigation	Cooke		Overdraft Trinity Aquifer, 2000-2010 and Add New Wells by 2010, Utilize Unaccounted for Annual Effective Recharge	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Livestock	Cooke		Overdraft Trinity Aquifer, 2000-2010 and Add New Wells by 2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Addison	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Balch Springs	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Carrollton	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Cedar Hill	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Cockrell Hill	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Combine	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Coppell	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Dallas	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
DeSoto	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Duncanville	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Farmers Branch	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Garland	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Glenn Heights	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Grand Prairie	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Grapevine	Dallas	Trinity	New DWU customer									See DWU strategies in Table Q-3
Grapevine	Dallas	Trinity	Reuse									See Grapevine in Tarrant County
Hutchins	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Irving	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Irving	Dallas	Trinity	Connect to Chapman Lake, transporting water to Lake Lewisville, releasing the water into Doe Creek above the lake, thence releasing from Lake Lewisville to the Elm Fork Trinity River for delivery to Irving.	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction and Interbasin Transfer in Table Q-1. Instream Flows: Completing the Chapman Lake connection would result in stored water being diverted from Chapman Lake and the Sulphur River system, resulting in a decrease in downstream spills/flows. Effects of increased flow into Doe Creek are being evaluated in the design of the pipeline. Flow in the Elm Fork of the Trinity River below Lake Lewisville to the City of Dallas intake point in Carrollton would be increased by the amount of the City of Irving's daily releases.
Irving	Dallas	Trinity	Connect to Marvin Nichols I Lake, transporting water to Lake Lewisville, releasing the water into Doe Creek above the lake, thence releasing from Lake Lewisville to the Elm Fork Trinity River for delivery to Irving.	L	L	L	L	L	L		L	See comments on Marvin Nichols Reservir in Table Q-2 and Construction and Interbasin Transfer in Table Q-1. Similar impacts as enumerated in Connecting to Capman Lake as shown above
Irving	Dallas	Trinity	Oklahoma Water: Pipeline and Pump Stations to Transport Water from Oklahoma to Lewisville Lake	L	L	L	L	L	L		L	See commnets for NTMWD; Oklahoma Water in Table Q-3
Irving	Dallas	Trinity	Reuse	L	L	L	L	L	L		L	See Reuse in Table Q-1.
Lancaster	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Lewisville	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Mesquite	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Ovilla	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Richardson	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Rowlett	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Sachse	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Seagoville	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Sunnyvale	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Wilmer	Dallas	Trinity	Overdraft aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Wilmer	Dallas	Trinity	New DWU customer									See DWU strategies in Table Q-3
County-Other	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
County-Other	Dallas	Trinity	Buy from DWU									See DWU strategies in Table Q-3
County-Other	Dallas	Trinity	Reuse from TRA CRWS for Landscape Irrigation	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1.
County-Other	Dallas	Trinity	Reuse from TRA CRWS , Joe Pool Lake for municipal supply	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1.

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
County-Other	Dallas	Trinity	Reuse from TRA Denton Creek WTP, Grapevine Lake for municipal supply	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1.
Manufacturing	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Manufacturing	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Steam Electric Power	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Dallas	Trinity	Reuse (DWU)	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Steam Electric Power	Dallas	Trinity	Reuse (TRA)	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Mining	Dallas	Trinity	Overdraft Trinity Aquifer thru 2010 and Add New Well									See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Mining	Dallas	Trinity	Reallocate Trinity Aquifer	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Mining	Dallas	Trinity	New DWU customer									See DWU strategies in Table Q-3
Argyle	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Argyle	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Argyle	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Aubrey	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Aubrey	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Aubrey	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Aubrey	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Aubrey	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Bartonville	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Bartonville	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Bartonville	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Carrollton	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Copper Canyon	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Copper Canyon	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Copper Canyon	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Corinth	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Corinth	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Corinth	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Crossroads	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Crossroads	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Crossroads	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Dallas	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Denton	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Denton	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Denton	Denton	Trinity	Current TRWD Customer (thru DWU)									See DWU and UTRWD strategies in Table Q-3
Denton	Denton	Trinity	Reuse Chapman Lake water delivered to Denton									Strategy currently being developed
Double Oak	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Double Oak	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Double Oak	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Flower Mound	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Flower Mound	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Flower Mound	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Flower Mound	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Frisco	Denton	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Hebron	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Hebron	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Hebron	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Hickory Creek	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Hickory Creek	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Hickory Creek	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Highland Village	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Highland Village	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Highland Village	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Justin	Denton	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Justin	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Justin	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Krugerville	Denton	Trinity	Overdraft Trinity Aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Krugerville	Denton	Trinity	New DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Krugerville	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Krugerville	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Krum	Denton	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Krum	Denton	Trinity	New DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Krum	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Krum	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Lake Dallas	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Lake Dallas	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Lake Dallas	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Lewisville	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Lewisville	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Lincoln Park	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Lincoln Park	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Lincoln Park	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Little Elm	Denton	Trinity	Overdraft Woodbine Aquifer in 2000 and Add New Well									See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Little Elm	Denton	Trinity	New DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Little Elm	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Little Elm	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Northlake	Denton	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Northlake	Denton	Trinity	Current TRWD Customer									See TRWD strategies in Table Q-3
Oak Point	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Oak Point	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Oak Point	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Pilot Point	Denton	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Pilot Point	Denton	Trinity	New DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Pilot Point	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Pilot Point	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Plano	Denton	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Ponder	Denton	Trinity	New DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Ponder	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Ponder	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Roanoke	Denton	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Sanger	Denton	Trinity	Current DWU customer (thru UTRWD thru Denton)									See DWU and UTRWD strategies in Table Q-3
Sanger	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Sanger	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Shady Shores	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Shady Shores	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Shady Shores	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Southlake	Denton	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
The Colony	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Trophy Club	Denton	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
County-Other	Denton	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
County-Other	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
County-Other	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
County-Other	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
County-Other	Denton	Trinity	Reuse (TRA), Landscape irrigation	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1.
Manufacturing	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Manufacturing	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Manufacturing	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Steam Electric Power	Denton	Trinity	Reuse	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges.
Cedar Hill	Ellis	Trinity	Renew contract with DWU									See Contract Renewal in Table Q-1. See DWU strategies in Table Q-3
Ennis	Ellis	Trinity	TRA Ellis County Water Supply Project by 2010									See TRA strategies in Table Q-3
Ferris	Ellis	Trinity	TRA Ellis County Water Supply Project by 2020									See TRA strategies in Table Q-3
Glenn Heights	Ellis	Trinity	Renew contract with DWU									See Contract Renewal in Table Q-1. See DWU strategies in Table Q-3
Grand Prairie	Ellis	Trinity	Renew contract with DWU									See Contract Renewal in Table Q-1. See DWU strategies in Table Q-3
Italy	Ellis	Trinity	Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Italy	Ellis	Trinity	TRA Ellis County Water Supply Project by 2010									See TRA strategies in Table Q-3
Italy	Ellis	Trinity	Additional supply from TRA Ellis County Water Supply Project by 2050									See TRA strategies in Table Q-3
Mansfield	Ellis	Trinity	Obtain additional water from TRWD by 2010									See TRWD strategies in Table Q-3
Maypearl	Ellis	Trinity	Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Maypearl	Ellis	Trinity	TRA Ellis County Water Supply Project by 2010									See TRA strategies in Table Q-3

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Midlothian	Ellis	Trinity	TRA Ellis County Water Supply Project by 2020									See TRA strategies in Table Q-3
Midlothian	Ellis	Trinity	Additional supply from TRA Ellis County Water Supply Project by 2030									See TRA strategies in Table Q-3
Milford	Ellis	Trinity	Overdraft Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Milford	Ellis	Trinity	Acquire surface water from Italy (via TRA) by 2010.	L	L	L	L	L	L		L	
Milford	Ellis	Trinity	Additional surface water from Files Valley WSC by 2000.	L	L	L	L	L	L		L	
Oak Leaf	Ellis	Trinity	Renew contract with DWU									See Contract Renewal in Table Q-1. See DWU strategies in Table Q-3
Ovilla	Ellis	Trinity	Contract for water from DWU									See DWU strategies in Table Q-3
Palmer	Ellis	Trinity	Overdraft Woodbine Aquifer, 2000-2010									See Temporary Aquifer Overdrafting in Table Q-1
Palmer	Ellis	Trinity	TRA Ellis County Water Supply Project by 2010									See TRA strategies in Table Q-3
Pecan Hill	Ellis	Trinity	Contract for supply from Rockett SUD by 2000	L	L	L	L	L	L		L	
Red Oak	Ellis	Trinity	Overdraft Woodbine Aquifer, 2000-2010									See Temporary Aquifer Overdrafting in Table Q-1
Red Oak	Ellis	Trinity	TRA Ellis County Water Supply Project by 2010									See TRA strategies in Table Q-3
Waxahachie	Ellis	Trinity	TRA Ellis County Water Supply Project by 2050									See TRA strategies in Table Q-3
County-Other	Ellis	Trinity	TRA Ellis County Water Supply Project by 2030									See TRA strategies in Table Q-3
Manufacturing	Ellis	Trinity	Continue to obtain supply from current sources: Ennis, Ferris, Midlothian, Waxahachie, County-Other; see strategies for these entities									See Contract Renewal in Table Q-1 (Ennis, Ferris, Midlothian, Waxahachie, County-Other)
Steam Electric Power	Ellis	Trinity	Reuse of wastewater from Ennis WWTP by Tractebel plant by 2010	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Instream Flows: Cummings Creek below the treatment plant will be Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Steam Electric Power	Ellis	Trinity	Ennis to supplement above reuse with water from Lake Bardwell (to Tractebel)	L	L	L	L	L	L		L	Instream Flows: Use water for consumptive use will reduce the number and frequency of spills from the lake. Water Quality: Water temperature in the near vicinity of the discharge
Steam Electric Power	Ellis	Trinity	Midlothian supply to ANP plant from Joe Pool Lake	L	L	L	L	L	L		L	Minor quantities involved
Steam Electric Power	Ellis	Trinity	Reuse from TRA Ten Mile Creek WWTP by 2010	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Instream Flows: Discharge to Ten Mile Creek will be reduced. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
County-Other	Fannin	Trinity	Additional wells from Trinity or Woodbine Aquifers	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Bonham	Fannin	Red	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
Honey Grove	Fannin	Sulphur	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Honey Grove	Fannin	Red	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
Leonard	Fannin	Sulphur	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
Leonard	Fannin	Trinity	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
Savoy	Fannin	Red	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
Trenton	Fannin	Trinity	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
County-Other	Fannin	Trinity	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
County-Other	Fannin	Trinity	Upper Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Reservoir Construction and Pipeline and Pump Stations in Table Q-1
County-Other	Fannin	Trinity	Ralph Hall Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Reservoir Construction and Pipeline and Pump Stations in Table Q-1
Fairfield	Freestone	Trinity	Add new well									See Add New Well in Table Q-1
Fairfield	Freestone	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Fairfield	Freestone	Trinity	New TRWD customer (thru TRA)									See TRWD and TRA strategies in Table Q-3
Wortham	Freestone	Trinity	Contract for water from L. Mexia, Pipeline is in place.	L	L	L	L	L	L		L	
Wortham	Freestone	Trinity	New TRWD Customer after 2010	L	L	L	L	L	L		L	See TRWD strategies in Table Q-3
Steam Electric Power	Freestone	Trinity	Calpine (formerly Entergy) contract with TRWD. New customer.	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction in Table Q-1.
Steam Electric Power	Freestone	Trinity	New TRWD customer	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction in Table Q-1.
Steam Electric Power	Freestone	Trinity	Additional Carrizo-Wilcox Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Bells	Grayson		Overdraft both the Trinity and the Woodbine Aquifers, 2000-2010.	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Bells	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Collinsville	Grayson		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Collinsville	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Gunter	Grayson		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Gunter	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Howe	Grayson		Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Howe	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Luella	Grayson		Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Luella	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Pottsboro	Grayson		Grayson County North Regional Supply System by 2020									See Grayson County North Regional Supply System in Table Q-3

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Sherman	Grayson		Grayson County South Regional Supply System by 2030									See Grayson County South Regional Supply System in Table Q-3
Southmayd	Grayson		Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Southmayd	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Tioga	Grayson		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Tioga	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Tom Bean	Grayson		Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Tom Bean	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Van Alstyne	Grayson		Overdraft both the Trinity and the Woodbine Aquifers, 2000-2010.	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Van Alstyne	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Whitesboro	Grayson		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Whitesboro	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Whitewright	Grayson		Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Whitewright	Grayson		New wells in the Trinity and Woodbine Aquifers, 2010-2030	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Whitewright	Grayson		Grayson County South Regional Supply System by 2030									See Grayson County South Regional Supply System in Table Q-3
County-Other	Grayson		Overdraft both the Trinity and the Woodbine Aquifers, 2000-2010.	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
County-Other	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
County-Other	Grayson		Grayson County North Regional Supply System by 2010									See Grayson County North Regional Supply System in Table Q-3
Manufacturing	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Mining	Grayson		Overdraft both the Trinity and the Woodbine Aquifers, 2000-2010, Add New Wells 2010, 2030	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Irrigation	Grayson		Add Trinity wells by 2010	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Malakoff	Henderson		Contract with TRWD for water from Cedar Creek Reservoir									See Pipeline and Pump Station Construction in Table Q-1
Combine	Kaufman	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Crandall	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Dallas	Kaufman	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Forney	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Kaufman	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Oak Grove	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
County Other	Kaufman	Sabine	Current NTMWD customer									See NTMWD strategies in Table Q-3
County Other	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
County Other	Kaufman	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
County Other	Kaufman	Trinity	Additional water from Terrell (Lake Tawakoni)									

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Manufacturing	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Kaufman	Trinity	Reuse from Garland	L - M	L	L	L	L	L - M		L - M	See comments on Reuse and Pipeline and Pump Station Construction in Table Q-1. Instream Flows: Diverting treated wastewater from the Garland Duck Creek WWTP for use as steam electric cooling water at the Cobisa plant near Forney would result in a reduction of instream flows in Duck Creek downstream of the WWTP. Water Quality: There will be a return pipeline from the Cobisa plant to the WWTP, and the process is expected to concentrate pollutants in the wastewater discharge from the WWTP.
Mining	Kaufman	Trinity	Overdraft Woodbine in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Mining	Kaufman	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Irrigation	Kaufman	Trinity	Overdraft Nacatoch aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Irrigation	Kaufman	Trinity	Transfer Nacatoch groundwater from livestock to irrigation use (Reallocation)	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Irrigation	Kaufman	Trinity	New TRWD Customer									See TRWD strategies in Table Q-3
Corsicana	Navarro	Trinity	Construct parallel pipeline to Richland Chambers after 2030 to use own water rights.	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table Q-1
Mining	Navarro	Trinity	Add new well in Carrizo-Wilcox Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Mining	Navarro	Trinity	Add new well in Nacatoch Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Aledo	Parker	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Aledo	Parker	Trinity	New TRWD customer (thru Weatherford)									See TRWD strategies in Table Q-3
Annetta	Parker	Trinity	Add new well in Other Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Annetta	Parker	Trinity	Overdraft other aquifer thru 2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Annetta	Parker	Trinity	New TRWD customer (thru Weatherford)									See TRWD strategies in Table Q-3
Azle	Parker	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Briar	Parker	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Hudson Oaks	Parker	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Hudson Oaks	Parker	Trinity	New TRWD customer (thru Weatherford)									See TRWD strategies in Table Q-3
Reno	Parker	Trinity	Current TRWD customer (thru Springtown)									See TRWD strategies in Table Q-3
Springtown	Parker	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Weatherford	Parker	Trinity	Overdraft Lake Weatherford in 2000	L	L	L	L	L	L - M		L - M	See Temporary Overdrafting of Reservoirs in Table Q-1.
Weatherford	Parker	Trinity	Current TRWD customer. Construct Pipeline to Lake Benbrook by 2010									See TRWD strategies in Table Q-3
Weatherford	Parker	Brazos	Overdraft Lake Weatherford in 2000	L	L	L	L	L	L - M		L - M	See Weatherford in the Trinity Basin
Weatherford	Parker	Brazos	Current TRWD customer. Construct Pipeline to Lake Benbrook by 2010									See TRWD strategies in Table Q-3
Willow Park	Parker	Trinity	Overdraft Trinity Aquifer in 2000									See Temporary Aquifer Overdrafting in Table Q-1
Willow Park	Parker	Trinity	New TRWD customer (thru Weatherford)									See TRWD strategies in Table Q-3
County-Other	Parker	Trinity	Overdraft Trinity Aquifer thru 2010 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
County-Other	Parker	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
County-Other	Parker	Brazos	Overdraft Trinity Aquifer thru 2010 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
County-Other	Parker	Brazos	Current TRWD customer									See TRWD strategies in Table Q-3

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Manufacturing	Parker	Trinity	New TRWD customer from Lake Benbrook									See TRWD strategies in Table Q-3
Manufacturing	Parker	Brazos	Add new well in Trinity Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Manufacturing	Parker	Brazos	Overdraft Trinity Aquifer thru 2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Manufacturing	Parker	Brazos	New TRWD customer (thru Weatherford)									See TRWD strategies in Table Q-3
Steam Electric Power	Parker	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Steam Electric Power	Parker	Trinity	Weatherford Reuse; Discharge from Weatherford WWTP to Lake Weatherford (pipeline) for Use by Plant at Lake.	M	L	L	L	L	M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges. The steam electric plant would discharge to Lake Weatherford, causing increased temperature and pollutant loading of the lake.
Mining	Parker	Trinity	Overdraft Trinity Aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Mining	Parker	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Mining	Parker	Trinity	Increase Diversions from Other Local Supply	L	L	L	L	L	L		L	
Mining	Parker	Brazos	Increase diversions from Other Local Supply	L	L	L	L	L	L		L	
Mining	Parker	Brazos	New TRWD customer									See TRWD strategies in Table Q-3
Dallas	Rockwall	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Heath	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Rockwall	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Rowlett	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Royse City	Rockwall	Sabine	Current NTMWD customer									See NTMWD strategies in Table Q-3
Wylie	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
County-Other	Rockwall	Sabine	Current NTMWD customer									See NTMWD strategies in Table Q-3
County-Other	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Manufacturing	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Rockwall	Sabine	Reuse	L - M	L	L	L	L	M		M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Arlington	Tarrant	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Azle	Tarrant	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Bedford	Tarrant	Trinity	Current TRA customer									See TRA strategies in Table Q-3
Blue Mound	Tarrant	Trinity	Current TRWD customer (thru Tecon)									See TRWD strategies in Table Q-3
Briar	Tarrant	Trinity	Current TRWD customer (thru Community WSC)									See TRWD strategies in Table Q-3
Burleson	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Colleyville	Tarrant	Trinity	Current TRA customer									See TRWD strategies in Table Q-3
Crowley	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Dalworthington Gard.	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Edgecliff	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Euless	Tarrant	Trinity	Current TRA customer									See TRWD strategies in Table Q-3
Everman	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Forest Hill	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Fort Worth	Tarrant	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Grand Prairie	Tarrant	Trinity	Current DWU customer									See DWU strategies in Table Q-3

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Grand Prairie	Tarrant	Trinity	Current TRWD customer (thru TRA thru Fort Worth)									See TRWD strategies in Table Q-3
Grapevine	Tarrant	Trinity	Current TRA customer									See TRA strategies in Table Q-3
Grapevine	Tarrant	Trinity	New DWU customer									See DWU strategies in Table Q-3
Grapevine	Tarrant	Trinity	Direct Reuse for Golf Course Irrigation	L	L	L	L	L	L		L	See Reuse in Table Q-1.
Haltom City	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Haslet	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Hurst	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Keller	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Kennedale	Tarrant	Trinity	Overdraft Trinity Aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Kennedale	Tarrant	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Lake Worth Village	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Mansfield	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
North Richland Hills	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
North Richland Hills	Tarrant	Trinity	Current TRA customer									See TRA strategies in Table Q-3
Pantego	Tarrant	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Pantego	Tarrant	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Pantego	Tarrant	Trinity	Reallocate Trinity Aquifer	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Pelican Bay	Tarrant	Trinity	Overdraft Trinity Aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Pelican Bay	Tarrant	Trinity	Reallocate Trinity Aquifer	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Pelican Bay	Tarrant	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Richland Hills	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
River Oaks	Tarrant	Trinity	Current TRWD Customer									See TRWD strategies in Table Q-3
Saginaw	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Sansom Park Village	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Southlake	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Watauga	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Westworth Village	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
White Settlement	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
County-Other	Tarrant	Trinity	Current TRWD customer (thru Fort Worth & TRA)									See TRWD strategies in Table Q-3
County-Other	Tarrant	Trinity	Current TRA customer									See TRA strategies in Table Q-3
County-Other	Tarrant	Trinity	Current Fort Worth customer									See TRWD Strategies in Table Q-3
County-Other	Tarrant	Trinity	Reuse (TRA) for landscape irrigation	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1.
Manufacturing	Tarrant	Trinity	Current TRWD customer (thru Fort Worth)									See TRWD strategies in Table Q-3
Manufacturing	Tarrant	Trinity	Current TRA customer									See TRA strategies in Table Q-3
Manufacturing	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Steam Electric Power	Tarrant	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Steam Electric Power	Tarrant	Trinity	Reuse	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Alvord	Wise	Trinity	Add new well in Trinity Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Alvord	Wise	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Alvord	Wise	Trinity	Reallocate Trinity Aquifer	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Alvord	Wise	Trinity	Purchase surface water from Decatur									See Decatur strategies
Alvord	Wise	Trinity	Construct pipeline to Decatur	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table Q-1
Aurora	Wise	Trinity	Add new well in Other Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Aurora	Wise	Trinity	Overdraft other aquifer thru 2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Aurora	Wise	Trinity	New TRWD customer (thru Walnut Creek SUD)									See TRWD strategies in Table Q-3
Boyd	Wise	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Boyd	Wise	Trinity	New TRWD customer (thru Walnut Creek SUD)									See TRWD strategies in Table Q-3
Briar	Wise	Trinity	Current TRWD customer (thru Community WSC)									See TRWD strategies in Table Q-3
Briar	Wise	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Bridgeport	Wise	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Chico	Wise	Trinity	Current TRWD customer (thru West Wise WSC)									See TRWD strategies in Table Q-3
Decatur	Wise	Trinity	Current TRWD customer (thru Wise County WSC)									See TRWD strategies in Table Q-3
Newark	Wise	Trinity	Add new well in Trinity Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Newark	Wise	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Newark	Wise	Trinity	New TRWD customer (thru Walnut Creek SUD)									See TRWD strategies in Table Q-3
Rhome	Wise	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Rhome	Wise	Trinity	New TRWD customer (thru Walnut Creek SUD)									See TRWD strategies in Table Q-3
County-Other	Wise	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Manufacturing	Wise	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Manufacturing	Wise	Trinity	Convert local mining water to manufacturing water	L	L	L	L	L	L		L	
Manufacturing	Wise	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Steam Electric Power	Wise	Trinity	New TRWD contract with Duke									See TRWD strategies in Table Q-3
Steam Electric Power	Wise	Trinity	New TRWD contract with Tractebel									See TRWD strategies in Table Q-3
Steam Electric Power	Wise	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Steam Electric Power	Wise	Trinity	Reuse	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges

Table Q-1

Environmental Issues for General Strategies for Water Management

Strategy	Strategy Components	Level of Difficulty to Address Environmental Issues (1)								Issues to be Addressed and Resolved During Planning and Design (See narrative section of Appendix for additional considerations)
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
NEW SUPPLY DEVELOPMENT	Reservoir Construction	M	L - M	M - H	L - H	L - H	L - M		M - H	**Instream Flows.** Loss of instream flows in the impounded section. Alteration of flow frequency below the dam, including possible dampening of high flows and more reliable low flow periods. **Bay and Estuary Flows** will be altered by the amount of water diverted from the reservoir and increased evaporation losses. **Wildlife Habitat** will be affected to the extent that impoundment will cover stream and riparian corridors**.** Unique species may have critical habitats changed**. Cultural Resources** will be subjected to permanent inundation or relocation during construction of the dam and appurtenances. **Wetlands** will be permanently altered in the impoundment area and may be affected downstream. **Water Quality** issues range from effects of nutrient accumulation to sedimentation depending on watershed management practices. Changes in downstream flow regime could also affect water quality.
	Add Groundwater Wells)	L	L	L	L	L	L		L	This strategy is feasible when sustainable groundwater is available. **Instream Flows** are indirectly increased by the return flows from groundwater use in municipal and industrial applications. Depending on the type of well field, a large, area-wide system
	Pipeline and Pump Station Construction	L	L	L	L	L	L		L	**Wildlife Habitat and Cultural Resources** will need to be assessed with respect to pipeline alignment and location and manner of stream crossings so that the effect on wildlife habitat and cultural resources can be minimized during the route selection and design.
INTERBASIN TRANSFER	Interbasin transfer	L	L	L - M	L	L	L - H	L - H	L - H	**Instream Flows** in the receiving water, if discharge is to a stream, will be increased which may cause changes in the steam bottom and bank configuration. Flows in the donor water system will be reduced. **Wildlife Habita**t will be affected by either the diminution of flows in the donor system and increase inflows in the recipient system. **Bays and Estuaries** below the donor water systems will have a reduction in the amount of flows. Bays and estuaries below the receiving waters will have an increase in the amount of flow. **Other**: Regulatory issues will have to be addressed in accomplishing interbasin transfer.
	Pipeline and Pump Station Construction									See Pipeline and Pump Station Construction above.
	New Supply Development or Connect to Existing Sources									See Reservoir Construction or Add Groundwater Well(s) above
CONNECT TO EXISTING SOURCES	Utilize storage in existing reservoirs	L - M	L - M	L	L	L	L		L	**Instream and Bays and Estuaries Flows:** The diversion of stored water to other uses will reduce the number of spills from the reservoir that have been historically experienced.
	Pipeline and Pump Station Construction									See Pipeline and Pump Station Construction above.

(1) NOTE: L=Low, M=Moderate, H=High as pertains to the degree of difficulty in avoidance or mitigation for the environmental issue

Table Q-1

Environmental Issues for General Strategies for Water Management

Strategy	Strategy Components	Level of Difficulty to Address Environmental Issues (1)								Issues to be Addressed and Resolved During Planning and Design (See narrative section of Appendix for additional considerations)
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
REALLOCATION OF STORAGE TO OTHER USES	Reservoirs									No impacts other than change in user or category of user
	Groundwater	L - M	L	L	L	L	L		L	**Instream Flows**: Depending on the project, a large, area-wide well field system could affect spring flow and base flow to streams.
RESERVOIR SYSTEM OPERATIONS	Temporary Overdrafting of Reservoirs	M	L	L	L	L	M		L - M	**Instream Flows**: Reservoir overdraft would increase available storage which could result in a decrease in the frequency of downstream spills. **Wildlife Habitat:** Lower lake levels could have an effect on wildlife habitat by changing the littoral zone of the lake. **Water Quality**: Reduced lake water volumes could affect water quality.
	Temporary Aquifer Overdrafting	L - M	L	L	L	L	L		L	**Instream Flows** may be affected by reduction in spring flows where the aquifer is hydraulically connected to springs.
REUSE OF WASTEWATER	Reuse	L - H	L	L	L	L	L - M		L - M	**Instream Flows** may be affected by the reduction in return flows that here-to-fore were returned to the streams. Any reduction will be offset to some degree by the increase in total return flows related to population growth in the upstream areas. **Bays and Estuarie**s effects, if any, must be assessed in accordance with State of Texas guidelines.
	Pipeline and Pump Station Construction									See Pipeline and Pump Station Construction above.
DESALINATION	Desalination	L	L	L	L	L	L-H		L	**Water Quality:** Desalination will result in a waste stream with high dissolved solids and chloride concentrations that most likely can not be discharged to receiving streams and will require alternative disposal options such as deep well injcection or landfilling . Desalination, if accomplished, would require importation from other basins, or groundwater sources. Therefore, there would be no dimunition of existing stream flow nor effects to habitat.
WATER CONSERVATION	Water Conservation	L	L	L	L	L	L	M	L	**Other:** Water conservation is included in all strategies. Periodic confirmation of conservation results are necessary to gauge progress. Increased public awareness measures may be required.
WATER MANAGEMENT STRATEGIES - TEXAS WATER PLAN	Contract Renewal	L	L	L	L	L	L		L	
BRUSH CONTROL	Adopted for as local strategy	L	L	L	L	L	L		L	Brush control will tend to increase instream flows and decrease wildlife habitat.

(1) NOTE: L=Low, M=Moderate, H=High as pertains to the degree of difficulty in avoidance or mitigation for the environmental issue

Table Q-2
Environmental Issues for Region C Water Management Strategies
Selected Regional Water Supply Projects

Entity	County	Basin	Project	Level of Dificulty to Address Environmental Issues (1)								Issues to be Addressed and Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
DWU, NTMWD, TRWD			Marvin Nichols I Reservoir Site & Connecting Pipeline/Pump Station(s)	M	L	H	M-H	H	L		H	See comments on Reservoir Construction and Interbasin Transfers in Table 1. **Instream Flows and Wildlife Habitat:** The proposed reservoir will inundate approximately 62,100 acres, including a portion of the Sulphur River Bottom West/Cuckoo Pond bottomland hardwood area (USFWS Priority I area). **Water Quality** issues include inundating oil and gas wells and lignite deposits/mines.
	Fannin		Ralph Hall Reservoir Site	M	L	M	L-M	M	L	M	M	See comments on Reservoir Construction and Interbasin Transfer in Table 1. **Other:** One of the purposes of Ralph Hall Reservoir is to address erosion problems along the North Fork of the Sulphur River. There is some potential for conflict with the Caddo National Grasslands in southern Fannin County.
	Fannin		Upper Bois d'Arc Creek Reservoir Site	M	L	M	L - M	M	L		M	See comments on Reservoir Construction and Interbasin Transfer in Table 1.
DWU, NTMWD, TRWD			Marvin Nichols II Reservoir Site	M	L	H	M - H	H	L	M		See comments on Reservoir Construction and Interbasin Transfer in Table 1. **Instream Flows and Wildlife Habitat** will be affected to some degree since the reservoir will inundate parts of the White Oak Creek Wildlife Management Area, lowland stream channels, bottomland hardwoods (including the White Oak bottomland hardwoods, A USFWS Priority 1 area) and wetland areas.
DWU, NTMWD, TRWD			George Parkhouse I Reservoir Site	M	L	H	L - M	H	L		M - H	See comments on Reservoir Construction and Interbasin Transfer in Table 1. **Wildlife Habitat**: Some of the mitigation areas associated with the Lake Chapman project will be inundated.
DWU, NTMWD, TRWD			George Parkhouse II Reservoir Site	M	L	H	M - H	H	M		M - H	See comments on Reservoir Construction in Table 1.
Water User Groups in Cooke County	Cooke	Red, Trinity	Cooke County Regional Supply System (Treatment and Pipeline)	L	L	L	L	L	L		L	See comments for Pipeline and Pump Station Construction in Table 1
Water User Groups in Cooke County	Grayson	Red, Trinity	Grayson County South Regional Supply System (Treatment and Pipeline) with Raw Water Source from Lake Texoma	L	L	L	L	L	M		L	See comments for Pipeline and Pump Station Construction in Table 1. **Water Quality**: This alternative will require desalination and disposal of a brine waste stream.
Pottsboro, Grayson County-Other	Grayson	Red	Grayson County North Regional Supply System (Treatment and Pipeline) with Raw Water Source from Lake Texoma	L	L	L	L	L	M		L	See comments for Pipeline and Pump Station Construction in Table 1. **Water Quality**: This alternative will require desalination and disposal of a brine waste stream.

(1) Note: L=Low, M=Moderate, H=High pertains to the level of difficulty of avoidance or mitigation of any particular environmental issue.

Table Q-3
Environmental Issues for Region C Water Management Strategies
Major Water Providers and Other Regional Suppliers

Entity	Project	Level of Difficulty to Address Environmental Issues (1)								
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Issues to be Addressed and Resolved During Planning and Design
NTMWD	Additional Reuse of Water from Wilson Creek WWTP	L	L	L	L	L	M		L	See Reuse from Table 1. **Water Quality:** The wastewater treatment level and effects of additional discharge of treated wastewater into Lake Lavon must be assessed.
NTMWD	Increase Water Supply from Lake Texoma	L	L	L	L	L	M	L	M	See Pipeline and Pump Station Construction and Interbasin Transfer from Table 1. **Instream Flows** of Sister Grove creek will be increased with attendant effects on streambank morphology. **Water Quality** issues related to the raw water quality of Lake Texoma water will require evaluation as to blending with other sources and treatment options.
NTMWD	Oklahoma Water: Pipeline and Pump Stations to Transport Water from Oklahoma to Chapman Lake	L	L	L	L	L	L	L	L	See Pipeline and Pump Station Construction and Interbasin Transfers from Table 1.
NTMWD	Lower Bois d'Arc Creek Reservoir Site & Connecting Pipeline/Pump Station(s)	M	L	M - H	L - M	M - H	L	L	M	See comments for Reservoir Construction, Pipeline and Pump Station Construction, and Interbasin Transfer in table 1. **Wildlife Habitat:** The Bois D'arc Creek bottomland hardwoods area will be inundated. **Other:** The Caddo National Grasslands is located immediately downstream of the area
NTMWD	Marvin Nichols I Reservoir Site & Connecting Pipeline/Pump Station(s)									See Marvin Nichols I Reservoir project in Table 2
NTMWD	Treated Water Transmission System	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction in Table 1.
NTMWD	Substantial Additional Water from Lake Texoma & Connecting Pipeline/Pump Station(s)	L	L	L	L	L	M - H	L	L - M	See comments on Pipeline and Pump Station Construction and Interbasin Transfer in Table 1. **Instream Flows** of Sister Grove creek will be increased with attendant effects on streambank morphology. **Water Quality** issues related to the raw water quality of Lake Texoma water will require evaluation as to blending with other sources and treatment options. Disposal options for brine generated in any desalination project will require evaluation.
NTMWD	Extend Texoma Pipeline from Headwaters of Sister Grove Creek to Lake Lavon.	L	L	L	L	L	L		L	See comments for Pipeline and Pump Station Construction in Table 1. **Instream flows and Wildlife Habitat**. Extension of the pipeline alongside Sister Grove Creek will return the creek to its antecedent condition.
TRWD	Cedar Creek/Richland-Chambers pipeline capacity	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table 1. Construction may be limited to existing pump station expansion

(1) NOTE: L=Low, M=Moderate, H=High as pertains to the level of difficulty in avoidance or mitigation for any particular environmental issue

Table Q-3
Environmental Issues for Region C Water Management Strategies
Major Water Providers and Other Regional Suppliers

Entity	Project	Level of Difficulty to Address Environmental Issues (1)								
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Issues to be Addressed and Resolved During Planning and Design
TRWD	Reuse from Trinity River. Diversion of Water Through Constructed Wetlands and into Cedar Creek and Richland-Chambers Lakes.	M	L	L	L	L	M		M	See Reuse from Table 1. **Wetlands** will be enhanced as a result of the project**. Water Quality** issues of this strategy are currently being evaluated.
TRWD	Marvin Nichols I Reservoir Site & connecting pipeline/pump station(s)									See Marvin Nichols I Reservoir project in Table 2
TRWD	Oklahoma Water & Connecting Pipeline/Pump Station(s)	M	L	L	L	L	L		L - M	See Pipeline and Pump Station Construction in Table 1. **Instream Flows and Wildlife Habitat:** The effects of discharge into receiving streams regarding the streambank morphology and existing habitat vis-à-vis pipeline lengths and discharge points requires evaluation.
TRWD	West Fork Connection: Pipeline Between Lake Benbrook and Eagle Mountain Lake to Allow Coordinated Operation of East and West Portions of TRWD system.	L	L	L	L	L	L		L	See comments for Pipeline and Pump Station Construction in Table 1. Impacts of system operation are in the process of being studied.
TRWD	Lake Tehuacana	M	L	M - H	M	M - H	L	L - M	M	See comments on Reservoir Construction in Table 1. **Instream Flows and Wildlife Habitat and Wetlands:** Lake Tehuacana would inundate several thousand acres, including mixed bottomland hardwood forest and mixed post oak forest . Mitigation lands will require assessment. **Other**: Natural and mineral resource conflicts may require assessment.
TRWD	Red River/Lake Texoma Water & Connecting Pipeline/Pump Station(s)	M	L	L	L	L	H	L	M	See comments on Pipeline and Pump Station Construction and Interbasin Transfers in Table 1. **Instream Flows** of the upper West Fork of the Trinity River will be increased depending on the location of the pipeline discharge point The increase in stream flow will affect the streambank morphology. **Water Quality** issues related to the raw water quality of Red River water will require evaluation as to blending with other sources and treatment options. Disposal options for brine generated in any desalination project will require evaluation.
TRWD	Freestone County Groundwater & Connecting Pipeline/Pump Station(s); Water Transported to Richland-Chambers Reservoir.	L	L	L	L	L	L	M - H	L - H	See Pipeline and Pump Station Construction in Table 1. **Other:** Local groundwater use may be affected. Geohydrology assessments are required to quantify effects
DWU	Renew expiring contracts	L	L	L	L	L	L		L	See Contract Renewal in Table 1

(1) NOTE: L=Low, M=Moderate, H=High as pertains to the level of difficulty in avoidance or mitigation for any particular environmental issue

Table Q-3
Environmental Issues for Region C Water Management Strategies
Major Water Providers and Other Regional Suppliers

Entity	Project	Level of Difficulty to Address Environmental Issues (1)								
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Issues to be Addressed and Resolved During Planning and Design
DWU	Existing Return Flows above DWU Lakes	L	L	L	L	L	L		L	See Reuse in Table 1
DWU	Additional Temporary Overdraft of Lake Tawakoni and Lake Ray Hubbard	L	L	L	L	L	L	M	L	See Temporary Overdrafting of Reservoirs in Table 1. **Other**: Reservoirs could be depleted during extended droughts.
DWU	Extend Elm Fork Permit	L	L	L	L	L	L	L	L	
DWU	Lake Fork Connection	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction and Interbasin Transfer in Table 1.
DWU	Lake Palestine Connection	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction and Interbasin Transfer in Table 1.
DWU	Marvin Nichols I Reservoir Site & Connecting Pipeline/Pump Station(s)									See Marvin Nichols I Reservoir project in Table 2
DWU	Southside WWTP Reuse and Necessary Pipelines and Pump Stations.	M	L	L	L	L	M		M	See Reuse from Table 1. **Water Quality:** The wastewater treatment level and effects of additional discharge of treated wastewater into Lake Ray Hubbard must be assessed.
DWU	Additional Return Flows to DWU Lakes.	L	L	L	L	L	L		L	See Reuse in Table 1
DWU	Additional Reuse	L	L	L	L	L	M		M	See Reuse in Table 1
Fort Worth	Renew Expiring Contracts	L	L	L	L	L	L		L	See Contract Renewal in Table 1
Fort Worth	Proportion of TRWD projects									See TRWD Strategies in Table 2
TRA	Proportion of TRWD projects									See TRWD Strategies in Table 2
TRA	Reuse Project (Dallas, Denton,Ellis, and Tarrant Counties)	L - M	L	L	L	L	L - M		L	See Reuse in Table 1
TRA	Ellis County Project	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction in Table 1. **Cultural Resources:** An initial study in connection with this alternative indicated no National Register of Historic Places/State Archeological Landmarks; however, some historic farm sites, prison/poor farm site, school site and prehistoric litter sites were found in the general vicinity of pipeline routes.
UTRWD	Connect to Lake Chapman by Pipeline, Transporting Water to Doe Creek above Lake Lewisville for Release into Lake Lewisville	M	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction and Interbasin Transfer in Table 1. **Instream Flows:** Completing the Lake Chapman connection would result in stored water being diverted from Lake Chapman and the Sulphur River system, resulting in a decrease in downstream spills/flows. Effects of increased flow into Doe Creek are being evaluated in the design of the pipeline.

(1) NOTE: L=Low, M=Moderate, H=High as pertains to the level of difficulty in avoidance or mitigation for any particular environmental issue

Table Q-3
Environmental Issues for Region C Water Management Strategies
Major Water Providers and Other Regional Suppliers

Entity	Project	Level of Difficulty to Address Environmental Issues (1)								
		Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Issues to be Addressed and Resolved During Planning and Design
UTRWD	Reuse of Lake Chapman Water	L	L	L	L	L	L		L	See Reuse in Table 1. **Instream Flows:** Since the source of the raw water is from the Sulphur River basin, the reuse of the water will have no effect on instream flows in the Trinity Basin.

(1) NOTE: L=Low, M=Moderate, H=High as pertains to the level of difficulty in avoidance or mitigation for any particular environmental issue

Table Q-4

Environmental Impacts of Region C Water Management Strategies

Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Items to be Resolved During Planning and Design
Allen	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Blue Ridge	Collin	Trinity	Overdraft Woodbine Aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Blue Ridge	Collin	Trinity	Reallocate Woodbine Aquifer (2020-2050)	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Celina	Collin	Trinity	New UTRWD (DWU) customer									See UTRWD strategies in Table Q-3
Celina	Collin	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Celina	Collin	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Dallas	Collin	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Fairview	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Farmersville	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Frisco	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Garland	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Lucas	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
McKinney	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Melissa	Collin	Trinity	Current NTMWD (thru North Collins WSC) customer									See NTMWD strategies in Table Q-3
Murphy	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
New Hope	Collin	Trinity	Current NTMWD (thru North Collins WSC) customer									See NTMWD strategies in Table Q-3
Parker	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Plano	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Princeton	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Prosper	Collin	Trinity	Overdraft Woodbine Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Prosper	Collin	Trinity	In 2010, new NTMWD customer									See NTMWD strategies in Table Q-3
Prosper	Collin	Trinity	New UTRWD (DWU) customer									See UTRWD strategies in Table Q-3
Prosper	Collin	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Prosper	Collin	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Richardson	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Royse City	Collin	Sabine	Current NTMWD customer									See NTMWD strategies in Table Q-3
Sachse	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Wylie	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
County-Other	Collin	Sabine	Current NTMWD customer									See NTMWD strategies in Table Q-3
County-Other	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Manufacturing	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Collin	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Collin	Trinity	Reuse	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Gainesville	Cooke		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Gainesville	Cooke		Complete 1 MGD pipeline from Moss Lake by 2000	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction in Table Q-1. Instream Flows and Wildlife Habitat. Completing the Moss Lake pipelines would result in additional waters being diverted from Moss Lake causing decrease in downstream flows and greater fluctuations in the lake elevations.
Gainesville	Cooke		Cooke County Regional Supply System by 2010, Including Construction of a Parallel Pipeline to Moss Lake	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table Q-1. Instream Flows: Increased diversion of water from the lake will reduce the frequency of spills.
Lindsay	Cooke		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Lindsay	Cooke		Cooke County Regional Supply System by 2010, Including Construction of a Parallel Pipeline to Moss Lake	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table Q-1. Instream Flows: Increased diversion of water from the lake will reduce the frequency of spills.
Muenster	Cooke		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Muenster	Cooke		Construct Muenster Lake by 2010	M	L	L - M	L - M	L - M	L		L - M	See comments on Reservoir Construction in Table Q-1. Instream Flows in Brushy Elm Creek below the dam will be altered. The effect on the Elm Fork of the Trinity River, further downstream will be marginal. Wildlife Habitat and Cultural Resources issues will require assessment, both at the reservoir site and downstream

1. Entities with no issues are supplied by others. Rankings are listed in Table 3 with the supplier.

2. Rankings pertain to degree of difficulty in mitigating the issue

Table Q-4

Environmental Impacts of Region C Water Management Strategies

Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
Valley View	Cooke		Overdraft Trinity Aquifer, 2000-2010 and Add New Wells by 2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Valley View	Cooke		New UTRWD customer by 2030									See UTRWD strategies in Table Q-3
County-Other	Cooke		Overdraft Trinity Aquifer, 2000-2010, Add New Wells and Utilize Unaccounted for Annual Recharge	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
County-Other	Cooke		Cooke County Regional Supply System by 2010, Including Construction of a Parallel Pipeline to Moss Lake	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table Q-1. Instream Flows: Increased diversion of water from the lake will reduce the frequency of spills.
County-Other	Cooke		Acquire water from UTRWD by 2030									See UTRWD strategies in Table Q-3
Manufacturing	Cooke		Continue to be supplied by Gainesville									See Gainesville strategies
Manufacturing	Cooke		Continue to be supplied by Muenster									See Muenster strategies
Mining	Cooke		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Irrigation	Cooke		Overdraft Trinity Aquifer, 2000-2010 and Add New Wells by 2010, Utilize Unaccounted for Annual Effective Recharge	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Livestock	Cooke		Overdraft Trinity Aquifer, 2000-2010 and Add New Wells by 2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Addison	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Balch Springs	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Carrollton	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Cedar Hill	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Cockrell Hill	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Combine	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Coppell	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Dallas	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
DeSoto	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Duncanville	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Farmers Branch	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Garland	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Glenn Heights	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Grand Prairie	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Grapevine	Dallas	Trinity	New DWU customer									See DWU strategies in Table Q-3
Grapevine	Dallas	Trinity	Reuse									See Grapevine in Tarrant County
Hutchins	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Irving	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Irving	Dallas	Trinity	Connect to Chapman Lake, transporting water to Lake Lewisville, releasing the water into Doe Creek above the lake, thence releasing from Lake Lewisville to the Elm Fork Trinity River for delivery to Irving.	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction and Interbasin Transfer in Table Q-1. Instream Flows: Completing the Chapman Lake connection would result in stored water being diverted from Chapman Lake and the Sulphur River system, resulting in a decrease in downstream spills/flows. Effects of increased flow into Doe Creek are being evaluated in the design of the pipeline. Flow in the Elm Fork of the Trinity River below Lake Lewisville to the City of Dallas intake point in Carrollton would be increased by the amount of the City of Irving's daily releases.
Irving	Dallas	Trinity	Connect to Marvin Nichols I Lake, transporting water to Lake Lewisville, releasing the water into Doe Creek above the lake, thence releasing from Lake Lewisville to the Elm Fork Trinity River for delivery to Irving.	L	L	L	L	L	L		L	See comments on Marvin Nichols Reservir in Table Q-2 and Construction and Interbasin Transfer in Table Q-1. Similar impacts as enumerated in Connecting to Capman Lake as shown above
Irving	Dallas	Trinity	Oklahoma Water: Pipeline and Pump Stations to Transport Water from Oklahoma to Lewisville Lake	L	L	L	L	L	L		L	See commnets for NTMWD; Oklahoma Water in Table Q-3
Irving	Dallas	Trinity	Reuse	L	L	L	L	L	L		L	See Reuse in Table Q-1.

1. Entities with no issues are supplied by others. Rankings are listed in Table 3 with the supplier.

2. Rankings pertain to degree of difficulty in mitigating the issue

Table Q-4

Environmental Impacts of Region C Water Management Strategies

Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Items to be Resolved During Planning and Design
Lancaster	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Lewisville	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Mesquite	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Ovilla	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Richardson	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Rowlett	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Sachse	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Seagoville	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Sunnyvale	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Wilmer	Dallas	Trinity	Overdraft aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Wilmer	Dallas	Trinity	New DWU customer									See DWU strategies in Table Q-3
County-Other	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
County-Other	Dallas	Trinity	Buy from DWU									See DWU strategies in Table Q-3
County-Other	Dallas	Trinity	Reuse from TRA CRWS for Landscape Irrigation	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1.
County-Other	Dallas	Trinity	Reuse from TRA CRWS , Joe Pool Lake for municipal supply	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1.
County-Other	Dallas	Trinity	Reuse from TRA Denton Creek WTP, Grapevine Lake for municipal supply	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1.
Manufacturing	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Manufacturing	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Dallas	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Steam Electric Power	Dallas	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Dallas	Trinity	Reuse (DWU)	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Steam Electric Power	Dallas	Trinity	Reuse (TRA)	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Mining	Dallas	Trinity	Overdraft Trinity Aquifer thru 2010 and Add New Well									See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Mining	Dallas	Trinity	Reallocate Trinity Aquifer	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Mining	Dallas	Trinity	New DWU customer									See DWU strategies in Table Q-3
Argyle	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Argyle	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Argyle	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Aubrey	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Aubrey	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Aubrey	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Bartonville	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Bartonville	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Bartonville	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Carrollton	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Copper Canyon	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Copper Canyon	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Copper Canyon	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Corinth	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Corinth	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Corinth	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Crossroads	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Crossroads	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Crossroads	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Dallas	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Denton	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Denton	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Denton	Denton	Trinity	Current TRWD Customer (thru DWU)									See DWU and UTRWD strategies in Table Q-3

1. Entities with no issues are supplied by others. Rankings are listed in Table 3 with the supplier.

2. Rankings pertain to degree of difficulty in mitigating the issue

Table Q-4

Environmental Impacts of Region C Water Management Strategies

Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Items to be Resolved During Planning and Design
Denton	Denton	Trinity	Reuse Chapman Lake water delivered to Denton									Strategy currently being developed
Double Oak	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Double Oak	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Double Oak	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Flower Mound	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Flower Mound	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Flower Mound	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Flower Mound	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Frisco	Denton	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Hebron	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Hebron	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Hebron	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Hickory Creek	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Hickory Creek	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Hickory Creek	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Highland Village	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Highland Village	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Highland Village	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Justin	Denton	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Justin	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Justin	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Krugerville	Denton	Trinity	Overdraft Trinity Aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Krugerville	Denton	Trinity	New DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Krugerville	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Krugerville	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Krum	Denton	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Krum	Denton	Trinity	New DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Krum	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Krum	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Lake Dallas	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Lake Dallas	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Lake Dallas	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Lewisville	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Lewisville	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Lincoln Park	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Lincoln Park	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Lincoln Park	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Little Elm	Denton	Trinity	Overdraft Woodbine Aquifer in 2000 and Add New Well									See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Little Elm	Denton	Trinity	New DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Little Elm	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Little Elm	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Northlake	Denton	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Northlake	Denton	Trinity	Current TRWD Customer									See TRWD strategies in Table Q-3
Oak Point	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Oak Point	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Oak Point	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Pilot Point	Denton	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Pilot Point	Denton	Trinity	New DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Pilot Point	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Pilot Point	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Plano	Denton	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Ponder	Denton	Trinity	New DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Ponder	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Ponder	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Roanoke	Denton	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3

1. Entities with no issues are supplied by others. Rankings are listed in Table 3 with the supplier.

2. Rankings pertain to degree of difficulty in mitigating the issue

Table Q-4

Environmental Impacts of Region C Water Management Strategies

Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Items to be Resolved During Planning and Design
Sanger	Denton	Trinity	Current DWU customer (thru UTRWD thru Denton)									See DWU and UTRWD strategies in Table Q-3
Sanger	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Sanger	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Shady Shores	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Shady Shores	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Shady Shores	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Southlake	Denton	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
The Colony	Denton	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Trophy Club	Denton	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
County-Other	Denton	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
County-Other	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
County-Other	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
County-Other	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
County-Other	Denton	Trinity	Reuse (TRA), Landscape irrigation	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1.
Manufacturing	Denton	Trinity	Current DWU customer (thru UTRWD)									See DWU and UTRWD strategies in Table Q-3
Manufacturing	Denton	Trinity	New UTRWD customer (Reuse)									See UTRWD strategies in Table Q-3
Manufacturing	Denton	Trinity	New UTRWD customer (Chapman Lake)									See UTRWD strategies in Table Q-3
Steam Electric Power	Denton	Trinity	Reuse	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges.
Cedar Hill	Ellis	Trinity	Renew contract with DWU									See Contract Renewal in Table Q-1. See DWU strategies in Table Q-3
Ennis	Ellis	Trinity	TRA Ellis County Water Supply Project by 2010									See TRA strategies in Table Q-3
Ferris	Ellis	Trinity	TRA Ellis County Water Supply Project by 2020									See TRA strategies in Table Q-3
Glenn Heights	Ellis	Trinity	Renew contract with DWU									See Contract Renewal in Table Q-1. See DWU strategies in Table Q-3
Grand Prairie	Ellis	Trinity	Renew contract with DWU									See Contract Renewal in Table Q-1. See DWU strategies in Table Q-3
Italy	Ellis	Trinity	Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Italy	Ellis	Trinity	TRA Ellis County Water Supply Project by 2010									See TRA strategies in Table Q-3
Italy	Ellis	Trinity	Additional supply from TRA Ellis County Water Supply Project by 2050									See TRA strategies in Table Q-3
Mansfield	Ellis	Trinity	Obtain additional water from TRWD by 2010									See TRWD strategies in Table Q-3
Maypearl	Ellis	Trinity	Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Maypearl	Ellis	Trinity	TRA Ellis County Water Supply Project by 2010									See TRA strategies in Table Q-3
Midlothian	Ellis	Trinity	TRA Ellis County Water Supply Project by 2020									See TRA strategies in Table Q-3
Midlothian	Ellis	Trinity	Additional supply from TRA Ellis County Water Supply Project by 2030									See TRA strategies in Table Q-3
Milford	Ellis	Trinity	Overdraft Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Milford	Ellis	Trinity	Acquire surface water from Italy (via TRA) by 2010.	L	L	L	L	L	L		L	
Milford	Ellis	Trinity	Additional surface water from Files Valley WSC by 2000.	L	L	L	L	L	L		L	
Oak Leaf	Ellis	Trinity	Renew contract with DWU									See Contract Renewal in Table Q-1. See DWU strategies in Table Q-3
Ovilla	Ellis	Trinity	Contract for water from DWU									See DWU strategies in Table Q-3
Palmer	Ellis	Trinity	Overdraft Woodbine Aquifer, 2000-2010									See Temporary Aquifer Overdrafting in Table Q-1
Palmer	Ellis	Trinity	TRA Ellis County Water Supply Project by 2010									See TRA strategies in Table Q-3
Pecan Hill	Ellis	Trinity	Contract for supply from Rockett SUD by 2000	L	L	L	L	L	L		L	
Red Oak	Ellis	Trinity	Overdraft Woodbine Aquifer, 2000-2010									See Temporary Aquifer Overdrafting in Table Q-1
Red Oak	Ellis	Trinity	TRA Ellis County Water Supply Project by 2010									See TRA strategies in Table Q-3
Waxahachie	Ellis	Trinity	TRA Ellis County Water Supply Project by 2050									See TRA strategies in Table Q-3

1. Entities with no issues are supplied by others. Rankings are listed in Table 3 with the supplier.

2. Rankings pertain to degree of difficulty in mitigating the issue

Table Q-4

Environmental Impacts of Region C Water Management Strategies

Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								Items to be Resolved During Planning and Design
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	
County-Other	Ellis	Trinity	TRA Ellis County Water Supply Project by 2030									See TRA strategies in Table Q-3
Manufacturing	Ellis	Trinity	Continue to obtain supply from current sources: Ennis, Ferris, Midlothian, Waxahachie, County-Other; see strategies for these entities									See Contract Renewal in Table Q-1 (Ennis, Ferris, Midlothian, Waxahachie, County-Other)
Steam Electric Power	Ellis	Trinity	Reuse of wastewater from Ennis WWTP by Tractebel plant by 2010	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Instream Flows: Cummings Creek below the treatment plant will be Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Steam Electric Power	Ellis	Trinity	Ennis to supplement above reuse with water from Lake Bardwell (to Tractebel)	L	L	L	L	L	L		L	Instream Flows: Use water for consumptive use will reduce the number and frequency of spills from the lake. Water Quality: Water temperature in the near vicinity of the discharge
Steam Electric Power	Ellis	Trinity	Midlothian supply to ANP plant from Joe Pool Lake	L	L	L	L	L	L		L	Minor quantities involved
Steam Electric Power	Ellis	Trinity	Reuse from TRA Ten Mile Creek WWTP by 2010	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Instream Flows: Discharge to Ten Mile Creek will be reduced. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
County-Other	Fannin	Trinity	Additional wells from Trinity or Woodbine Aquifers	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Bonham	Fannin	Red	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
Honey Grove	Fannin	Sulphur	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
Honey Grove	Fannin	Red	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
Leonard	Fannin	Sulphur	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
Leonard	Fannin	Trinity	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
Savoy	Fannin	Red	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
Trenton	Fannin	Trinity	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
County-Other	Fannin	Trinity	Lower Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Lower Bois d'Arc Creek reservoir in Table Q-3, NTMWD
County-Other	Fannin	Trinity	Upper Bois d'Arc Creek Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Reservoir Construction and Pipeline and Pump Stations in Table Q-1
County-Other	Fannin	Trinity	Ralph Hall Reservoir, water treatment plant, pipelines and pump stations	M	L	M-H	L	M-H	L	L	L	See Reservoir Construction and Pipeline and Pump Stations in Table Q-1
Fairfield	Freestone	Trinity	Add new well									See Add New Well in Table Q-1
Fairfield	Freestone	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Fairfield	Freestone	Trinity	New TRWD customer (thru TRA)									See TRWD and TRA strategies in Table Q-3
Wortham	Freestone	Trinity	Contract for water from L. Mexia, Pipeline is in place.	L	L	L	L	L	L		L	
Wortham	Freestone	Trinity	New TRWD Customer after 2010	L	L	L	L	L	L		L	See TRWD strategies in Table Q-3
Steam Electric Power	Freestone	Trinity	Calpine (formerly Entergy) contract with TRWD. New customer.	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction in Table Q-1.

1. Entities with no issues are supplied by others. Rankings are listed in Table 3 with the supplier.

2. Rankings pertain to degree of difficulty in mitigating the issue

Table Q-4

Environmental Impacts of Region C Water Management Strategies

Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Items to be Resolved During Planning and Design
Steam Electric Power	Freestone	Trinity	New TRWD customer	L	L	L	L	L	L		L	See comments on Pipeline and Pump Station Construction in Table Q-1.
Steam Electric Power	Freestone	Trinity	Additional Carrizo-Wilcox Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Bells	Grayson		Overdraft both the Trinity and the Woodbine Aquifers, 2000-2010.	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Bells	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Collinsville	Grayson		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Collinsville	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Gunter	Grayson		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Gunter	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Howe	Grayson		Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Howe	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Luella	Grayson		Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Luella	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Pottsboro	Grayson		Grayson County North Regional Supply System by 2020									See Grayson County North Regional Supply System in Table Q-3
Sherman	Grayson		Grayson County South Regional Supply System by 2030									See Grayson County South Regional Supply System in Table Q-3
Southmayd	Grayson		Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Southmayd	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Tioga	Grayson		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Tioga	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Tom Bean	Grayson		Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Tom Bean	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Van Alstyne	Grayson		Overdraft both the Trinity and the Woodbine Aquifers, 2000-2010.	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Van Alstyne	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Whitesboro	Grayson		Overdraft Trinity Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Whitesboro	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Whitewright	Grayson		Overdraft Woodbine Aquifer, 2000-2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Whitewright	Grayson		New wells in the Trinity and Woodbine Aquifers, 2010-2030	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Whitewright	Grayson		Grayson County South Regional Supply System by 2030									See Grayson County South Regional Supply System in Table Q-3
County-Other	Grayson		Overdraft both the Trinity and the Woodbine Aquifers, 2000-2010.	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
County-Other	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
County-Other	Grayson		Grayson County North Regional Supply System by 2010									See Grayson County North Regional Supply System in Table Q-3
Manufacturing	Grayson		Grayson County South Regional Supply System by 2010									See Grayson County South Regional Supply System in Table Q-3
Mining	Grayson		Overdraft both the Trinity and the Woodbine Aquifers, 2000-2010, Add New Wells 2010, 2030	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Irrigation	Grayson		Add Trinity wells by 2010	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Malakoff	Henderson		Contract with TRWD for water from Cedar Creek Reservoir									See Pipeline and Pump Station Construction in Table Q-1

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2. Rankings pertain to degree of difficulty in mitigating the issue

Table Q-4

Environmental Impacts of Region C Water Management Strategies

Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Items to be Resolved During Planning and Design
Combine	Kaufman	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Crandall	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Dallas	Kaufman	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Forney	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Kaufman	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Oak Grove	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
County Other	Kaufman	Sabine	Current NTMWD customer									See NTMWD strategies in Table Q-3
County Other	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
County Other	Kaufman	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
County Other	Kaufman	Trinity	Additional water from Terrell (Lake Tawakoni)									
Manufacturing	Kaufman	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Kaufman	Trinity	Reuse from Garland	L - M	L	L	L	L	L - M		L - M	See comments on Reuse and Pipeline and Pump Station Construction in Table Q-1. Instream Flows: Diverting treated wastewater from the Garland Duck Creek WWTP for use as steam electric cooling water at the Cobisa plant near Forney would result in a reduction of instream flows in Duck Creek downstream of the WWTP. Water Quality: There will be a return pipeline from the Cobisa plant to the WWTP, and the process is expected to concentrate pollutants in the wastewater discharge from the WWTP.
Mining	Kaufman	Trinity	Overdraft Woodbine in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Mining	Kaufman	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Irrigation	Kaufman	Trinity	Overdraft Nacatoch aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Irrigation	Kaufman	Trinity	Transfer Nacatoch groundwater from livestock to irrigation use (Reallocation)	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Irrigation	Kaufman	Trinity	New TRWD Customer									See TRWD strategies in Table Q-3
Corsicana	Navarro	Trinity	Construct parallel pipeline to Richland Chambers after 2030 to use own water rights.	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table Q-1
Mining	Navarro	Trinity	Add new well in Carrizo-Wilcox Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Mining	Navarro	Trinity	Add new well in Nacatoch Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Aledo	Parker	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Aledo	Parker	Trinity	New TRWD customer (thru Weatherford)									See TRWD strategies in Table Q-3
Annetta	Parker	Trinity	Add new well in Other Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Annetta	Parker	Trinity	Overdraft other aquifer thru 2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Annetta	Parker	Trinity	New TRWD customer (thru Weatherford)									See TRWD strategies in Table Q-3
Azle	Parker	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Briar	Parker	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Hudson Oaks	Parker	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Hudson Oaks	Parker	Trinity	New TRWD customer (thru Weatherford)									See TRWD strategies in Table Q-3
Reno	Parker	Trinity	Current TRWD customer (thru Springtown)									See TRWD strategies in Table Q-3
Springtown	Parker	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Weatherford	Parker	Trinity	Overdraft Lake Weatherford in 2000	L	L	L	L	L	L - M		L - M	See Temporary Overdrafting of Reservoirs in Table Q-1.
Weatherford	Parker	Trinity	Current TRWD customer. Construct Pipeline to Lake Benbrook by 2010									See TRWD strategies in Table Q-3
Weatherford	Parker	Brazos	Overdraft Lake Weatherford in 2000	L	L	L	L	L	L - M		L - M	See Weatherford in the Trinity Basin
Weatherford	Parker	Brazos	Current TRWD customer. Construct Pipeline to Lake Benbrook by 2010									See TRWD strategies in Table Q-3
Willow Park	Parker	Trinity	Overdraft Trinity Aquifer in 2000									See Temporary Aquifer Overdrafting in Table Q-1
Willow Park	Parker	Trinity	New TRWD customer (thru Weatherford)									See TRWD strategies in Table Q-3
County-Other	Parker	Trinity	Overdraft Trinity Aquifer thru 2010 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
County-Other	Parker	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
County-Other	Parker	Brazos	Overdraft Trinity Aquifer thru 2010 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
County-Other	Parker	Brazos	Current TRWD customer									See TRWD strategies in Table Q-3

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2. Rankings pertain to degree of difficulty in mitigating the issue

Table Q-4

Environmental Impacts of Region C Water Management Strategies

Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Items to be Resolved During Planning and Design
Manufacturing	Parker	Trinity	New TRWD customer from Lake Benbrook									See TRWD strategies in Table Q-3
Manufacturing	Parker	Brazos	Add new well in Trinity Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Manufacturing	Parker	Brazos	Overdraft Trinity Aquifer thru 2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Manufacturing	Parker	Brazos	New TRWD customer (thru Weatherford)									See TRWD strategies in Table Q-3
Steam Electric Power	Parker	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Steam Electric Power	Parker	Trinity	Weatherford Reuse; Discharge from Weatherford WWTP to Lake Weatherford (pipeline) for Use by Plant at Lake.	M	L	L	L	L	M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges. The steam electric plant would discharge to Lake Weatherford, causing increased temperature and pollutant loading of the lake.
Mining	Parker	Trinity	Overdraft Trinity Aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Mining	Parker	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Mining	Parker	Trinity	Increase Diversions from Other Local Supply	L	L	L	L	L	L		L	
Mining	Parker	Brazos	Increase diversions from Other Local Supply	L	L	L	L	L	L		L	
Mining	Parker	Brazos	New TRWD customer									See TRWD strategies in Table Q-3
Dallas	Rockwall	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Heath	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Rockwall	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Rowlett	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Royse City	Rockwall	Sabine	Current NTMWD customer									See NTMWD strategies in Table Q-3
Wylie	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
County-Other	Rockwall	Sabine	Current NTMWD customer									See NTMWD strategies in Table Q-3
County-Other	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Manufacturing	Rockwall	Trinity	Current NTMWD customer									See NTMWD strategies in Table Q-3
Steam Electric Power	Rockwall	Sabine	Reuse	L - M	L	L	L	L	M		M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Arlington	Tarrant	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Azle	Tarrant	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Bedford	Tarrant	Trinity	Current TRA customer									See TRA strategies in Table Q-3
Blue Mound	Tarrant	Trinity	Current TRWD customer (thru Tecon)									See TRWD strategies in Table Q-3
Briar	Tarrant	Trinity	Current TRWD customer (thru Community WSC)									See TRWD strategies in Table Q-3
Burleson	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Colleyville	Tarrant	Trinity	Current TRA customer									See TRWD strategies in Table Q-3
Crowley	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Dalworthington Gard.	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Edgecliff	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Euless	Tarrant	Trinity	Current TRA customer									See TRWD strategies in Table Q-3
Everman	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Forest Hill	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Fort Worth	Tarrant	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Grand Prairie	Tarrant	Trinity	Current DWU customer									See DWU strategies in Table Q-3
Grand Prairie	Tarrant	Trinity	Current TRWD customer (thru TRA thru Fort Worth)									See TRWD strategies in Table Q-3
Grapevine	Tarrant	Trinity	Current TRA customer									See TRA strategies in Table Q-3
Grapevine	Tarrant	Trinity	New DWU customer									See DWU strategies in Table Q-3
Grapevine	Tarrant	Trinity	Direct Reuse for Golf Course Irrigation	L	L	L	L	L	L		L	See Reuse in Table Q-1.
Haltom City	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Haslet	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Hurst	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Keller	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Kennedale	Tarrant	Trinity	Overdraft Trinity Aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1

1. Entities with no issues are supplied by others. Rankings are listed in Table 3 with the supplier.

2. Rankings pertain to degree of difficulty in mitigating the issue

Table Q-4

Environmental Impacts of Region C Water Management Strategies

Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Items to be Resolved During Planning and Design
Kennedale	Tarrant	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Lake Worth Village	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Mansfield	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
North Richland Hills	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
North Richland Hills	Tarrant	Trinity	Current TRA customer									See TRA strategies in Table Q-3
Pantego	Tarrant	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Pantego	Tarrant	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Pantego	Tarrant	Trinity	Reallocate Trinity Aquifer	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Pelican Bay	Tarrant	Trinity	Overdraft Trinity Aquifer in 2000 and Add New Well	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting and Add New Well in Table Q-1
Pelican Bay	Tarrant	Trinity	Reallocate Trinity Aquifer	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Pelican Bay	Tarrant	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Richland Hills	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
River Oaks	Tarrant	Trinity	Current TRWD Customer									See TRWD strategies in Table Q-3
Saginaw	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Sansom Park Village	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Southlake	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Watauga	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Westworth Village	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
White Settlement	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
County-Other	Tarrant	Trinity	Current TRWD customer (thru Fort Worth & TRA)									See TRWD strategies in Table Q-3
County-Other	Tarrant	Trinity	Current TRA customer									See TRA strategies in Table Q-3
County-Other	Tarrant	Trinity	Current Fort Worth customer									See TRWD Strategies in Table Q-3
County-Other	Tarrant	Trinity	Reuse (TRA) for landscape irrigation	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1.
Manufacturing	Tarrant	Trinity	Current TRWD customer (thru Fort Worth)									See TRWD strategies in Table Q-3
Manufacturing	Tarrant	Trinity	Current TRA customer									See TRA strategies in Table Q-3
Manufacturing	Tarrant	Trinity	Current Fort Worth customer									See TRWD strategies in Table Q-3
Steam Electric Power	Tarrant	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Steam Electric Power	Tarrant	Trinity	Reuse	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges
Alvord	Wise	Trinity	Add new well in Trinity Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Alvord	Wise	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Alvord	Wise	Trinity	Reallocate Trinity Aquifer	L	L	L	L	L	L		L	See Reallocation of Groundwater in Table Q-1
Alvord	Wise	Trinity	Purchase surface water from Decatur									See Decatur strategies
Alvord	Wise	Trinity	Construct pipeline to Decatur	L	L	L	L	L	L		L	See Pipeline and Pump Station Construction in Table Q-1
Aurora	Wise	Trinity	Add new well in Other Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1
Aurora	Wise	Trinity	Overdraft other aquifer thru 2010	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Aurora	Wise	Trinity	New TRWD customer (thru Walnut Creek SUD)									See TRWD strategies in Table Q-3
Boyd	Wise	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Boyd	Wise	Trinity	New TRWD customer (thru Walnut Creek SUD)									See TRWD strategies in Table Q-3
Briar	Wise	Trinity	Current TRWD customer (thru Community WSC)									See TRWD strategies in Table Q-3
Briar	Wise	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Bridgeport	Wise	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Chico	Wise	Trinity	Current TRWD customer (thru West Wise WSC)									See TRWD strategies in Table Q-3
Decatur	Wise	Trinity	Current TRWD customer (thru Wise County WSC)									See TRWD strategies in Table Q-3
Newark	Wise	Trinity	Add new well in Trinity Aquifer	L	L	L	L	L	L		L	See Add New Well in Table Q-1

1. Entities with no issues are supplied by others. Rankings are listed in Table 3 with the supplier.

2. Rankings pertain to degree of difficulty in mitigating the issue

Table Q-4

Environmental Impacts of Region C Water Management Strategies

Water User Groups

Entity	County	Basin	Project	Level of Difficulty to Address Environmental Issues (1) (2)								
				Instream Flows	Bay and Estuary Flows	Wildlife Habitat	Cultural Resources	Wetlands	Water Quality	Other	Summary	Items to be Resolved During Planning and Design
Newark	Wise	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Newark	Wise	Trinity	New TRWD customer (thru Walnut Creek SUD)									See TRWD strategies in Table Q-3
Rhome	Wise	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Rhome	Wise	Trinity	New TRWD customer (thru Walnut Creek SUD)									See TRWD strategies in Table Q-3
County-Other	Wise	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Manufacturing	Wise	Trinity	Current TRWD customer									See TRWD strategies in Table Q-3
Manufacturing	Wise	Trinity	Convert local mining water to manufacturing water	L	L	L	L	L	L		L	
Manufacturing	Wise	Trinity	Overdraft Trinity Aquifer in 2000	L	L	L	L	L	L		L	See Temporary Aquifer Overdrafting in Table Q-1
Steam Electric Power	Wise	Trinity	New TRWD contract with Duke									See TRWD strategies in Table Q-3
Steam Electric Power	Wise	Trinity	New TRWD contract with Tractebel									See TRWD strategies in Table Q-3
Steam Electric Power	Wise	Trinity	New TRWD customer									See TRWD strategies in Table Q-3
Steam Electric Power	Wise	Trinity	Reuse	L - M	L	L	L	L	L - M		L - M	See Reuse in Table Q-1. Water Quality impacts are related to amount of water used, type of cooling system and location of intakes and discharges

1. Entities with no issues are supplied by others. Rankings are listed in Table 3 with the supplier.

2. Rankings pertain to degree of difficulty in mitigating the issue

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Table R-215	Wise County Steam Electric Transmission Systems

APPENDIX R

COST ESTIMATES

APPENDIX R
COST ESTIMATES

Introduction

The evaluation of water management strategies requires the development of cost estimates. The strategy evaluations contained in this regional plan represent preliminary overviews and should not be considered as detailed feasibility analyses. Due to the forward looking nature of these types of planning efforts, the cost estimates in this plan do not necessarily represent what actual costs may be to design, build, or operate water supply systems. Project specific analyses should be developed at the time a project is undertaken to establish a more accurate estimate.

Costs for pipelines, pump stations and water treatment facilities are based on standard unit costs that include contractors' mobilization, overhead and profit. The unit costs do not include engineering, contingency, financial and legal services, costs for land and rights-of-way, permits, environmental and archeological studies, or mitigation, all of which are added separately. Previous cost estimates were used when available.

The cost estimates include two components:

- Initial capital costs, including engineering and construction costs, and
- Average annual costs, including annual operation and maintenance costs, water purchase costs, and debt service.

Table R-1 is an example of the preferred format for capital costs.

Costs for Conveyance Systems

Conveyance systems include pipelines, pump stations, intake and outlet structures for delivering raw or treated water from one location to another.

Table R-1
Example of Preferred Cost Estimate Format

Construction Costs					
Well Field Facilities	**Size**	**Quantity**	**Unit**	**Unit Price**	**Cost**
Water Wells		12	LS	$50,000	$600,000
Transmission to Pump Station	10 in.	120,000	LF	$28	$3,360,000
					$3,960,000
Engineering and Contingencies (30%)					$1,188,000
Subtotal for Well Field Facilities					**$5,148,000**
Transmission Facilities	**Size**	**Quantity**	**Unit**	**Unit Price**	**Cost**
Pipeline	30 in.	368,860	LF	$74	$27,296,000
Right of way easements (ROW)		368,860	LF	$1	$369,000
Storage Tank at High Point	4 MG	1	LS	$746,000	$746,000
					$28,411,000
Engineering and Contingencies (30%)					$8,523,000
Subtotal for Pipeline					**$36,934,000**
	Size	**Quantity**	**Unit**	**Unit Price**	**Cost**
Pump Station at Well Field	1100 HP	1	LS	$2,510,000	$2,510,000
Storage Tank at Well Field	4 MG	1	LS	$746,000	$746,000
Booster Station	1100 HP	1	LS	$2,510,000	$2,510,000
Storage Tank at Booster Station	4 MG	1	LS	$746,000	$746,000
					$6,512,000
Engineering and Contingencies (35%)					$2,279,200

Table R-1, Continued					
Subtotal for Pump Stations					**$8,791,200**
Environmental and Archeological Studies		**Quantity**	**Unit**	**Unit Price**	**Cost**
		368,860	LF	$0.60	$221,000
Construction Total					**$50,873,200**
Interest During Construction					$3,978,000
Total Cost					**$54,851,200**
Annual Costs					
Debt Service					$3,984,880
Electricity					$1,645,000
Operation and Maintenance					$487,000
Total Annual Costs					**$6,116,880**
Unit Costs					
Per Acre-Foot					**$910**
Per 1000 gallons					**$2.79**

Determination of Pipe Size

1. First, lay out the route of the pipeline on a topographic map. Considerations in selecting a route include:

   - The shortest route is usually the best route. Draw a line between the source and the point of use and follow that line as closely as possible.
   - Avoid urban areas if possible.
   - Follow highways, rail lines, power lines or other existing easements whenever possible. Avoid petroleum product pipelines because of interference from cathodic protection.
   - Avoid conflicts where possible. Conflicts include highway and rail line crossings, major rivers and reservoirs, and large oil fields.
   - Avoid high points above the hydraulic grade line if possible.

2. Develop a profile of the route. A detailed profile is not required, but it is important to include high and low points.

3. Select a design capacity based upon the amount of water needed. If the pipeline is to be used to supply a treatment plant, the design capacity should be based upon the peak-day delivery rate. Assume a 2.0 peaking factor unless other information is available. If the pipeline is used to deliver water to terminal storage the design capacity should be from 1.25 to 1.5 times the average annual demand. If the water were used to supplement another source, the design capacity would be between 1.5 to 2.0 times the annual average demands.

4. Graph a hydraulic grade line using the Hazen-Williams equation at the design flow and a C factor of 120. Select the pipe size using the following criteria:
   - The velocity in the pipe at maximum flow should be between 4 and 6 ft/sec.
   - The head loss in the pipe should be between 1.5 and 2.5 feet/1000 feet.
   - Pipe sizes should be limited to standard diameters (i.e. the ones in the tables). However, if the pipeline is very long alternative diameters may be considered because the pipe supplier will be willing to manufacture non-standard sizes if the pipe is ordered in sufficient quantity.

5. In most cases assume that pump stations should add a maximum of 461 feet of head (200 PSI) to the HGL. Station losses of 10 feet should be assumed at each pump station. Booster pump stations should be added whenever the HGL is below 46 feet (20 PSI). If possible locate booster pump stations at topographic high points and near sources of power. Costs of pump stations are based upon number of pumps and the HP of each pump. The number of pumps is based upon the expected range of pumping. In general assume one additional pump as a backup. The amount of head required at a pump station may be converted into horsepower using the following formula:

$$HP = 0.17536 * Q_{mgd} * H_{ft} / \text{Efficiency}$$

Developing Costs for Conveyance Projects

1. Conveyance project capital and operational costs should include the items listed in Table R-2.

2. The costs of installed pipe and ROW width may be found in Table R-3. Costs are for 150-class pipe installed in rural areas. The cost with appurtenances includes items such as valves and fittings as well as a normal amount of boring under roadways. Increase costs if an unusual number of conflicts such as major highway or numerous railroad crossings are encountered. Add 20% for pipelines in urban areas. Costs might be even higher for small pipes in cities. Add 5% to 10% for shorter lengths. Additional costs should be added for obstacles such as rock excavation or forested areas. Cost should be reduced for easy pipeline conditions, such as soft soil in flat country.

Table R-2
Cost Items for Conveyance Projects

Capital Costs	
Pipelines	**Pump Stations**
Installed pipe, including appurtenances	Pumps, building and appurtenances
ROW	Storage tanks
Conflicts	Intake structures
Outlet structures	
Other Initial Costs	
Engineering	Environmental and archeological studies
Contingencies	Interest during construction
Construction Management	Mitigation
Operation and Maintenance Costs	
General O&M	Estimated annual power costs
Debt service	

Table R-3
Costs for Pipe and ROW Width

Diameter (Inches)	Base Installed Cost ($/Foot)	Cost with Appurtenances ($/Foot)	Assumed ROW Width (Feet)	Assumed Temporary Easement Width (Feet)
8	22	24	20	60
10	26	28	20	60
12	29	32	20	60
14	33	37	20	60
16	37	41	20	60
18	41	45	20	60
20	44	48	20	60
24	51	56	20	60
30	67	74	20	60
36	83	91	20	60
42	100	110	30	70
48	115	127	30	70
54	132	145	30	70
60	167	184	30	70
66	192	211	30	70
72	217	239	30	70
78	243	267	40	80
84	273	300	40	80
90	301	331	40	80
96	347	382	40	80
102	394	433	40	80
108	435	479	40	80
114	483	531	40	80
120	524	576	40	80

Notes: a. Costs based on class 150 pipe for long, rural pipelines.
b. Appurtenances assumed to be 10% of installed pipe costs.
c. For urban pipelines, add 20% to base costs and 35% to cost with appurtenances for pipes 40" or larger. Add more for smaller pipelines.
d. Adjust costs for obstacles (rock, forested areas) and easy conditions (soft soil in flat country).

3. The unit costs with appurtenances include an expected amount of conflicts such as highway and railroad crossings.

4. Pipeline easements are additional and consist of a permanent easement and a construction easement. Table R-3 gives the assumed ROW width for various sizes of pipe. It should be assumed that a permanent right-of-way is purchased for most projects.

5. Outlet structure cost is assumed to be $100,000 for most sizes of pipe.

Pump Stations

1. Table R-4 presents the costs for individual pump stations. Each pump station includes a metal building with slab, pumps, miscellaneous valving and piping, electrical and instrumentation, a motor control center and land acquisitions including an access road.

2. It is assumed that a booster pump station will require ground storage tanks. The cost of ground storage includes slab, delivery of tank, and painting or coating of the tank. The tanks should be sized hold 8 hours of pumping at peak rates. Table R-5 presents assumed costs per storage volume.

3. Costs for intake structures are estimated on a case-by-case basis.

Other Initial Costs

1. Following SB1 guidelines, it will be assumed that engineering, contingency, construction management, financial and legal costs will be 30% of construction cost for pipelines and 35% of construction costs for pump stations.

2. It will be assumed that environmental and archeological studies will be $0.57 per linear foot of pipeline for large transmission projects and $0.28 for smaller transmission projects that follow existing easements. The minimum cost for environmental and archeological studies is $25,000.

Operation and Maintenance Costs

According to SB1 guidelines operation and maintenance is assumed to be 1.0% of the construction cost of pipelines and 2.5% of the construction costs of pump stations.

Table R-4
Pump Station Costs

Horsepower	Costs
100	$ 620,000
200	$ 930,000
300	$ 1,200,000
400	$ 1,500,000
500	$ 1,700,000
600	$ 1,800,000
700	$ 1,900,000
800	$ 2,100,000
900	$ 2,200,000
1,000	$ 2,400,000
2,000	$ 3,500,000
3,000	$ 4,200,000
4,000	$ 5,100,000
5,000	$ 5,800,000
6,000	$ 6,600,000
7,000	$ 7,200,000
8,000	$ 7,800,000
9,000	$ 8,500,000
10,000	$ 9,000,000
20,000	$14,000,000
30,000	$17,000,000

Table R-5
Ground Storage Tank Costs

Size (Million Gallons)	With Roof	Without Roof
0.10	$ 75,000	
0.25	$ 100,000	
0.50	$ 156,000	
1.00	$ 275,000	$ 220,000
1.50	$ 354,000	$ 278,000
2.00	$ 432,000	$ 335,000
2.50	$ 510,000	$ 385,000
3.00	$ 589,000	$ 435,000
3.50	$ 668,000	$ 485,000
4.00	$ 746,000	$ 535,000
5.00	$ 895,000	$ 630,000
6.00	$ 1,043,000	$ 724,000

Water Treatment Plants

Costs for treatment plants are given in terms of construction costs for building new plants or expansion of existing plants. Costs are presented for conventional plants. Engineering and contingency fees are 35% of the capital cost.

Conventional Water Treatment Plants

Conventional water treatment plants are plants that use standard flocculation, sand-filtration and chlorine or ozone disinfection or similar processes to produce potable water.

Capital Costs

Table R-6 presents approximate capital costs for construction of a new water treatment plant and expansion of an existing treatment plant. The cost includes the treatment facilities, piping, clearwell storage and administrative and other buildings. The cost does not include acquisition of property, high service pump stations, or treatment studies.

Table R-6
Conventional Water Treatment Plant Costs

Plant Capacity (mgd)	New Conventional Plants	Conventional Plant Expansions
1	$ 4,000,000	$ 2,000,000
3	$ 7,300,000	$ 5,100,000
7	$ 11,500,000	$ 8,500,000
10	$ 14,000,000	$ 10,000,000
15	$ 17,500,000	$ 12,500,000
20	$ 21,000,000	$ 15,500,000
30	$ 28,000,000	$ 21,000,000
40	$ 35,000,000	$ 26,500,000
50	$ 42,000,000	$ 31,500,000
60	$ 48,750,000	$ 36,500,000
70	$ 55,500,000	$ 41,500,000
80	$ 62,000,000	$ 46,750,000
90	$ 68,000,000	$ 52,000,000
100	$ 74,750,000	$ 57,500,000

Operation and Maintenance Costs

The operation and maintenance of a conventional water treatment plant is $0.35 per 1,000 gallons for small systems (less than 6 mgd) and $0.25 per 1,000 gallons for large systems (greater than 6 mgd). These costs include chemicals, labor and electricity.

Reservoir Sites

1. Site-specific cost estimates are made for reservoir sites. The elements required for reservoir sites are included in Table R-7.

Table R-7
Cost Elements for Reservoir Sites

Capital Costs	Studies and Permitting
Embankment	Environmental and archeological studies
Spillway	Permitting
Outlet works	Engineering and contingencies
Site work	
Land	
Administrative facilities	
Supplemental pumping facilities	
Terrestrial mitigation tracts	

2. According to TWDB guidance, engineering and contingencies are 35% of construction cost, annual O&M are 1.5% of construction costs, and mitigation cost is based upon the number of acres inundated times the cost of land.
3. Archeological and environmental studies are determined based upon site-specific information.

Water Wells

1. Costs for water wells are based on the relationship developed by LBG Guyton as shown in Table R-8.
2. Construction costs developed for municipal water providers included an additional $100,000 per well for connection to the existing distribution system.

Table R-8
Cost Elements for Water Wells

Well Diameter (inches)	Typical Production Range (gpm)	Estimated Cost a=production rate (gpm), b= well depth (feet) c=1 for PWS/Industrial or 0.55 for Irrigation
6	25-150	4000 + 68a + 60bc
8	150-300	5000 + 65a + 130bc
10	300-500	6000 + 63a + 170bc
12	500-800	8000 + 60a + 210bc
16	800-2000	8000 + 60a + 300bc

3. Engineering costs were estimated at 30% of the total construction costs. Mitigation and permitting were estimated at 1% of the total construction costs, with a minimum of $10,000 per well.

4. The construction and engineering costs were annualized based on a 30 year pay-off on capital with 6% interest. Operation and maintenance costs were estimated annually and added to the debt service. The maintenance costs for the pipelines and connections with distribution systems were estimated at 1%, and the pump station maintenance was estimated at 2.5%.

5. Chemical usage for water treatment was estimated to cost $0.10 per 1,000 gallons.

6. Pumping costs were developed on an annual basis using the average depth to water data from TWDB and the average amount pumped by the entity. The assumed cost per kilowatt hour is six cents.

Annual and Life-Cycle Costs

The parameters for annual costs specified in TWDB guidance are summarized in Table R-9. Present value calculations or adjustments for inflation are not required by TWDB. Unit costs are to be presented in dollars per acre-foot. It is also recommended that values be presented in dollars per 1,000 gallons because readers may be more familiar with those units.

Table R-9
Annual Cost Assumptions

Annual Cost Element	Value
Interest rate	6% per year simple interest
Length of debt service	30 years for most projects 35 year for state participation 40 years for reservoirs
Power costs	$0.6 per kWh, may be adjusted for local conditions
O&M costs	Pipelines – 1.0% of construction Pump Stations – 2.5% of construction Dams – 1.5% of construction Water wells – see text Water treatment – $0.25-$0.35 per 1,000 gallons
Water Purchase Costs	See Table R-10

Some management strategies require the purchase of raw water, treated water, or treated wastewater. Because the Region C plan includes many hundreds of potential water purchases, it was not practical to determine an individual water purchase cost for each purchase. Instead, assumed purchase costs were based on values within current ranges. It should be emphasized that these assumed purchase costs in no way represent or are intended to limit the price to be set in future water purchases. The actual price of water will be negotiated between the buyer and the seller, depending on the details of the particular transaction. Table R-10 shows the purchase costs assumed in this study.

Table R-10
Assumed Purchase Cost for Water

Type of water	Cost Range (per 1,000 gallons)	Assumed Purchase Cost	
		(per 1,000 gallons)	(per acre-foot)
Raw Water	0.25 to $1.00	$0.75	$245
Treated Water	0.75 to $3.50	$1.50	$490
Treated Wastewater	$0.15 to $1.00	$0.50	$163

Interest during construction is estimated assuming the total estimated project cost (excluding interest during construction) would be drawn down at a constant rate per month during the construction period. Interest during construction is the total of interest accrued at the end of the construction period using an 6 percent annual interest rate on total borrowed funds, less a 4 percent rate of return on investment of unspent funds. Factors for use in cost estimating are presented in Table R-10. These factors are multiplied by the cost to build the project, including engineering, contingencies, and environmental and ecological studies. The length of construction should be verified for individual projects.

Table R-11
Factors for Interest During Construction

Construction Period	Factor
6 months	0.021667
12 months	0.041667
18 months	0.057593
24 months	0.078194
36 month construction	0.118796

Cost Estimates for Projects

The following tables (R-12 through R-215) include cost estimates for the individual projects.

APPENDIX S

TEXAS WATER DEVELOPMENT BOARD TABLE 11
POTENTIALLY FEASIBLE WATER MANAGEMENT STRATEGIES

APPENDIX S
TEXAS WATER DEVELOPMENT BOARD TABLE 11
POTENTIALLY FEASIBLE WATER MANAGEMTN STRATEGIES

Introduction

One of the tables the Texas Water Development Board requires in the development of regional water plans is TWDB Table 11, which shows the feasible strategies for meeting water shortages for each Water User Group (WUG) and Major Water Provider (MWP). TWDB Table 11 only lists water management strategies for those entities needing additional water supplies in the 50 year time period. The TWDB requires that the table include the following information [(56)]:

A. Major Water Provider Name (if applicable)
B. Water User Group Name
C. Major Water Provider Number (TWDB Alpha Number)
D. Water User Group Identifier Number
E. Regional Water Planning Letter
F. TWDB Sequence Number for Water User Group
G. TWDB City Number
H. County Number (see key before TWDB Table 11)
I. Basin Number (see key before TWDB Table 11)
J. Type of Water Supply (see key before TWDB Table 11)
K. Regional Water Planning Group of Source
L. County Number of Source (see key to counties before TWDB Table 11)
M. Basin Number of Source (see key before TWDB Table 11)
N. Specific Source Identifier (see key before TWDB Table 11)
O. Specific Source Name
P. Total Capital Cost (1999 Second Quarter Dollars)
Q-V. Total Annual Cost per Acre-Foot of Water Supply for the Years 2000-2050
W-BB. Total Supply Available from Each Strategy During the Drought of Record Conditions for the Years 2000-2050

TWDB Table 11 shows the amount of water made available by each feasible water management strategy and the associated cost for each strategy. The costs to the major water providers are found at the top of the table with the Major Water Provider projects and costs. All of the water management strategies listed in TWDB Table 11 should include the total annual costs per acre-foot of water realized by the strategy. The development of the costs is described in Appendix R.

Key to Texas Water Development Board Codes in TWDB Table 11

Major Water Provider Numbers

The TWDB assigned identification numbers for all of the entities determined to be Major Water Providers within their regions. The following are the five Major Water Providers in Region C:

160	North Texas Municipal Water District
171	Trinity River Authority
190	Tarrant Regional Water District
206800	Dallas Water Utilities
298900	City of Fort Worth

Regional Water Planning Groups

The TWDB divided the State of Texas into 16 regions in Senate Bill One (SB1) for the purpose of water planning. The following are the 16 SB1 regions:

A	Panhandle Water Planning Group
B	Region B Water Planning Group
C	Region C Water Planning Group
D	North East Texas Regional Water Planning Group
E	Far West Texas Water Planning Group
F	Region F Water Planning Group
G	Brazos G Water Planning Group
H	Region H Water Planning Group
I	East Texas Water Planning Group

J	Plateau Water Planning Group
K	Lower Colorado Water Planning Group
L	South Central Texas Water Planning Group
M	Rio Grande Water Planning Group
N	Coastal Bend Water Planning Group
O	Llano-Estacado Water Planning Group
P	Lavaca Water Planning Group

County Number Code

The Texas Water Development Board (TWDB) assigned county code numbers to every county in Texas. The following counties are included in Region C:

43	Collin
49	Cooke
57	Dallas
61	Denton
70	Ellis
74	Fannin
81	Freestone
91	Grayson
107	Henderson
119	Jack
129	Kaufman
175	Navarro
184	Parker
199	Rockwall
220	Tarrant
249	Wise

Basin Numbers

The TWDB also assigned numbers to correspond to the various river basins in Texas. The following are the river basins in Region C:

2	Red River Basin
3	Sulphur River Basin

5	Sabine River Basin
6	Neches River Basin
8	Trinity River Basin
12	Brazos River Basin

Type of Water Supply

The TWDB developed a coding system for the various water management strategies. The strategies all begin with the number 4 and are followed by one or more letters matching the description of the management strategy. The Type of Water Supply is defined in the following table:

a	Water conservation and drought response planning including water demand management
b	Reuse of wastewater
c	Expanded use or acquisition of existing supplies including systems optimization and conjunctive use of surface water and groundwater
d	Reallocation of reservoir storage to new uses
e	Voluntary redistribution of water resources including water marketing, regional water banks, sales, leases, options, subordination agreements, and financing agreements
f	Subordination of existing water rights through voluntary agreements
g	Enhancements of yields of existing sources
h	Control of naturally occurring chlorides or other minerals
i	Interbasin transfers
j	New supply development including construction and improvement of surface water resources
k	Water management strategies identified in the state water plan for the regional water planning area
l	Brush control, precipitation enhancement, ands desalinization
m	Water supply that could be made available by cancellation of water rights based on data provided by the TNRCC
n	Aquifer storage and recovery
o	Other measures
p	Renewal of existing contracts

Specific Source Identifier

The TWDB has developed an encoding theme for the various water supply sources throughout the State. Water supply systems were assigned identification numbers by the TWDB. Reservoirs and reuse projects were also assigned codes based on the number of the river basin in which they are located and the TWDB assigned location along that river or stream. The Irrigation Local Supply code is a combination of the county number and the TWDB code "996". The Livestock Local Supply and Other Local Supply begin with the basin number in which the supply is located followed by the code "997" or "999", respectively. The groundwater supplies are encoded with the county number followed by the aquifer code. The following are the specific source identifiers used in the Region C version of TWDB Table 11:

02220	Hubert H Moss Lake
020C0	Lake Texoma (NTMWD)
02230P	Lake Texoma
02240	Lake Randall
02270	Lake Bonham
02997	Livestock Local Supply (Red Basin)
02999	Other Local Supply (Red Basin)
030C0	Chapman (NTMWD)
03997	Livestock Local Supply (Sulphur Basin)
04328	Trinity Aquifer (Collin County)
04329	Woodbine Aquifer (Collin County)
043996	Irrigation Local Supply (Collin County)
04928	Trinity Aquifer (Cooke County)
049996	Irrigation Local Supply (Cooke County)
05010P	Lake Tawakoni
05722	Other Groundwater (Dallas County)
05728	Trinity Aquifer (Dallas County)
05729	Woodbine Aquifer (Dallas County)
057996	Irrigation Local Supply (Dallas County)
05997	Livestock Local Supply (Sabine Basin)
05999	Other Local Supply (Sabine Basin)
06010	Lake Athens
06122	Other Groundwater (Denton County)
06128	Trinity Aquifer (Denton County)
06129	Woodbine Aquifer (Denton County)

061996	Irrigation Local Supply (Denton County)
07022	Other Groundwater (Ellis County)
07028	Trinity Aquifer (Ellis County)
07029	Woodbine Aquifer (Ellis County)
070996	Irrigation Local Supply (Ellis County)
07422	Other Groundwater (Fannin County)
07428	Trinity Aquifer (Fannin County)
07429	Woodbine Aquifer (Fannin County)
074996	Irrigation Local Supply (Fannin County)
080C0	Lake Lavon/Reuse
08010P	Bridgeport Local Supply
08050	Lake Weatherford
08060	Lake Benbrook
08070	Lake Grapevine
08100P	Lake Ray Roberts
08110	Carrizo-Wilcox Aquifer (Freestone County)
08110P	Lake Lewisville
08120	Lake Arlington
08122	Other Groundwater (Freestone County)
08124	Queen City Aquifer (Freestone County)
08130	Joe Pool Lake
08140	Mountain Creek Lake
08180	Lake Terrell
081996	Irrigation Local Supply (Freestone County)
08200	Lake Waxahachie
08210	Lake Bardwell
08220	Lake Halbert
08230	Navarro Mills Reservoir
08290	Lost Creek/Jacksboro System
08390	Lake Trinidad
08400	Livingston (TXU-Fairfield)
08410	Forest Grove
08420	Lake Fairfield
08640	Lake Clark
086C0	West Fork less Bridgeport Local
086D0	Elm Fork/Lake Grapevine System
08190P	Cedar Creek/Richland-Chambers System
08700	Wortham Lake

08997	Livestock Local Supply
08999	Other Local Supply (Trinity Basin)
09122	Other Groundwater (Grayson County)
09128	Trinity Aquifer (Grayson County)
09129	Woodbine Aquifer (Grayson County)
091996	Irrigation Local Supply (Grayson County)
10710	Carrizo-Wilcox Aquifer Henderson County)
10722	Other Groundwater (Henderson County)
10724	Queen City Aquifer (Henderson County)
107996	Irrigation Local Supply (Henderson County)
11922	Other Groundwater (Jack County)
11928	Trinity Aquifer (Jack County)
119996	Irrigation Local Supply (Jack County)
12150	Possum Kingdom (BRA)
12160	Lake Palo Pinto
12170	Lake Mineral Wells
12860	Teague City Lake
12870	Lake Bryson
12920	Nacatoch Aquifer (Kaufman County)
12922	Other Groundwater (Kaufman County)
12929	Woodbine Aquifer (Kaufman County)
12997	Livestock Local Supply (Kaufman County)
12999	Other Local Supply (Kaufman County)
129996	Irrigation Local Supply (Kaufman County)
17510	Carrizo-Wilcox Aquifer (Navarro County)
17520	Nacatoch Aquifer (Navarro County)
17522	Other Groundwater (Navarro County)
17528	Trinity Aquifer (Navarro County)
17529	Woodbine Aquifer (Navarro County)
175996	Irrigation Local Supply (Navarro County)
18422	Other Groundwater (Parker County)
18428	Trinity Aquifer (Parker County)
18429	Woodbine Aquifer (Parker County)
184996	Irrigation Local Supply (Parker County)
19922	Other Groundwater (Rockwall County)
22022	Other Groundwater (Tarrant County)
22028	Trinity Aquifer (Tarrant County)
22029	Woodbine Aquifer (Tarrant County)

220996	Irrigation Local Supply (Tarrant County)
24922	Other Groundwater (Wise County)
24928	Trinity Aquifer (Wise County)
249996	Irrigation Local Supply (Wise County)
35081	Indirect Reuse
36055	Reuse (Grayson County)
36132	Reuse (Denton County)
36142	Reuse (Kaufman County)
36146	Reuse (Tarrant County)
36147	Reuse (Rockwall County)
36147	Reuse (Tarrant County)
A08195	Trinidad City Lake

TWDB Table 11
Potentially Feasible Water management Strategies

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
Major Water Providers and Other Water Suppliers																															
Dallas			206800		C					8	Trinity	4e1	C		8	086D0	Return flows above lakes	$0	$163	$163	$163	$163	$163	$0	50,000	40,000	30,000	20,000	10,000	0	Return flows above lakes
Dallas			206800		C					8	Trinity	4e1	C		8	086D0	Additional Temporary Overdraft	$0	$0	$0	$0	$0	$0	$0	22,000	0	0	0	0	0	Additional Temporary Overdraft
Dallas			206800		C					8	Trinity	4e1	C		8	086D0	Extend Elm Fork Term Permit	$500,000	$0	$0	$4	$4	$4	$0	0	0	10,000	10,000	10,000	10,000	Extend Elm Fork Term Permit
Dallas			206800		C					8	Trinity	4e1	D		5	05040	Lake Fork Connection	$288,000,000	$0	$228	$228	$228	$53	$53	0	120,000	120,000	120,000	120,000	120,000	Lake Fork Connection
Dallas			206800		C					8	Trinity	4e1	I		6	06020	Lake Palestine Connection	$332,600,000	$0	$0	$278	$278	$278	$58	0	0	111,500	110,900	110,200	109,600	Lake Palestine Connection
Dallas			206800		C					8	Trinity	4e1	D		3	03050	Marvin Nichols I (Phase I)	$220,796,000	$0	$0	$0	$375	$375	$375	0	0	0	56,000	56,000	56,000	Marvin Nichols I (Phase I)
Dallas			206800		C					8	Trinity	4e1	D		3	03050	Marvin Nichols I (Phase II)	$131,530,000	$0	$0	$0	$0	$0	$258	0	0	0	0	0	56,000	Marvin Nichols I (Phase II)
Dallas			206800		C					8	Trinity	4e1	C		8		Reuse	$124,000,000	$0	$0	$0	$0	$171	$171	0	0	0	0	68,300	68,300	Indirect Reuse
Dallas			206800		C					8	Trinity	4e1	C		8	086D0	Additional Return Flows	$0	$0	$0	$0	$163	$163	$163	0	0	0	50,000	50,000	50,000	Additional Return Flows (Alternative after 2030).
Dallas			206800		C					8	Trinity	4e1	C		8		Additional Reuse	$42,333,000	$0	$0	$0	$266	$266	$266	0	0	0	50,000	50,000	50,000	Additional Indirect Reuse (Alternative after 2030)
Dallas			206800		C					8	Trinity	4e1	C		8		Water Treatment Plant Expansions	$107,134,000	$0	$166	$166	$166	$81	$81	0	0	0	0	0	0	Water Treatment Plant Expansions in 2010
Dallas			206800		C					8	Trinity	4e1	C		8		Water Treatment Plant Expansions	$153,351,000	$0	$0	$280	$280	$280	$81	0	0	0	0	0	0	Water Treatment Plant Expansions in 2020
Dallas			206800		C					8	Trinity	4e1	C		8		Water Treatment Plant Expansions	$67,369,000	$0	$0	$0	$169	$169	$169	0	0	0	0	0	0	Water Treatment Plant Expansions in 2030
Dallas			206800		C					8	Trinity	4e1	C		8		Water Treatment Plant Expansions	$67,369,000	$0	$0	$0	$0	$169	$169	0	0	0	0	0	0	Water Treatment Plant Expansions in 2040
Tarrant Regional Water District			190		C					8	Trinity	4e2	C		8	086E0	Cedar Creek/Richland-Chambers Pipeline Expansion (Phase I)	$24,681,000	$0	$145	$145	$145	$129	$129	0	110,000	110,000	110,000	110,000	110,000	Cedar Creek/Richland-Chambers Pipeline Expansion (Phase I)
Tarrant Regional Water District			190		C					8	Trinity	4e2	C		8	086E0	Cedar Creek/Richland-Chambers Pipeline	$233,967,000	$0	$355	$240	$240	$93	$93	0	0	0	0	0	0	Cedar Creek/Richland-Chambers Pipeline Expansion Phase II (Brings reuse water from Trinity River up to the Metroplex)

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																	Expansion (Phase II)														
Tarrant Regional Water District			190		C					8	Trinity	4e2	C		8		Reuse from the Trinity River (Phase I)	$34,294,000	$0	$237	$237	$237	$197	$197	0	63,000	63,000	63,000	63,000	63,000	Indirect reuse from the Trinity River. (Phase I)
Tarrant Regional Water District			190		C					8	Trinity	4e2	C		8		Reuse from the Trinity River (Phase II)	$40,874, 000	$0	$0	$255	$255	$255	$198	0	0	52,500	52,500	52,500	52,500	Indirect reuse from the Trinity River. (Phase II)
Tarrant Regional Water District			190		C					8	Trinity	4e2	D		3	03050	Marvin Nichols I (Phase I)	$402,081,000	$0	$0	$0	$509	$509	$509	0	0	0	78,000	78,000	78,000	Marvin Nichols I (Phase I)
Tarrant Regional Water District			190		C					8	Trinity	4e2	D		3	03050	Marvin Nichols I (Phase II)	$271,285,000	$0	$0	$0	$0	$0	$385	0	0	0	0	0	78,000	Marvin Nichols I (Phase II)
Tarrant Regional Water District			190		C					8	Trinity	4e2	C		8	086C0	West Fork Connection	$60,539,000							0	0	0	0	0	0	West Fork Connection. Does not provide additional water, but it does provide additional flexibility within the system for 67,300 Acre-Feet/Year.
Tarrant Regional Water District			190		C					8	Trinity	4e2					Oklahoma Water	$99,931,000	$0	$0	$0	$1,095	$1,095	$1,095	0	0	0	12,000	12,000	12,000	Oklahoma water.
Tarrant Regional Water District			190		C					8	Trinity	4c	C		2	02230P	Lake Texoma	$75,580,000	$0	$0	$0	$280	$280	$280	0	0	0	25,000	25,000	25,000	Lake Texoma (Alternative after 2030)
Tarrant Regional Water District			190		C					8	Trinity	4j	C		8	08250	Lake Tehuacana	$213,351,000	$0	$0	$0	$240	$240	$240	0	0	0	68,300	68,300	68,300	Lake Tehuacana (Alternative after 2030). Cos ts are for water in the reservoir.
Tarrant Regional Water District			190		C					8	Trinity	4c	C		8	08110	Freestone County Groundwater	$123,794,000	$0	$737	$737	$737	$377	$377	0	25,000	25,000	25,000	25,000	25,000	Freestone County Groundwater (Assume built by 2010).
North Texas Municipal Water District			160		C							4e3	C		2	02230P	Additional Reuse	$1,000,000	$0	$2	$2	$2	$0	$0	0	17,936	26,904	35,872	35,872	35,872	Additional indirect reuse.
North Texas Municipal Water District			160		C							4e3	C		2	02230P	Additional Lake Texoma	$5,286,000	$0	$78	$78	$78	$43	$43	0	10,000	10,000	10,000	10,000	10,000	Additional Lake Texoma
North Texas Municipal Water District			160		C							4e3					Oklahoma water	$68,777,000	$0	$441	$441	$441	$342	$342	0	50,000	50,000	50,000	50,000	50,000	Oklahoma water
North Texas Municipal Water District			160		C							4e3	C		2		Lower Bois d'Arc Creek Lake	$167,324,000	$0	$0	$157	$157	$157	$44	0	0	98,000	98,000	98,000	98,000	Lower Bois d'Arc Creek Lake
North Texas Municipal Water District			160		C							4e3	D		3	03050	Marvin Nichols I (Phase I)	$259,218,000	$0	$0	$0	$289	$289	$289	0	0	0	81,650	81,650	81,650	Marvin Nichols I (Phase I)
North Texas Municipal Water District			160		C							4e3	D		3	03050	Marvin Nichols I (Phase II)	$132,387,000	$0	$0	$0	$0	$0	$176	0	0	0	0	0	81,650	Marvin Nichols I (Phase II)
North Texas Municipal Water District			160		C							4c	C		2	02230P	Substantial Additional Lake Texoma	$238,477,000	$0	$0	$0	$638	$638	$638	0	0	0	50,000	50,000	50,000	Substantial Additional Lake Texoma water (Alternative after 2030)
North Texas Municipal Water District			160		C							4c	C		2	02230P	Extend Texoma Pipeline	$51,927,000	$0	$0	$0	$572	$572	$572	0	0	0	6,700	6,700	6,700	Lengthen the existing pipeline from the current discharge location (stream) to Lake Lavon. (Alternative after 2030)

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North Texas Municipal Water District			160		C							4e3	C		8		Water Treatment Plant & Transmission Expansions by 2010	$194,409,000	$0	$189	$189	$189	$86	$86	0	0	0	0	0	0	Water Treatment Plant & Transmission Expansions by 2010
North Texas Municipal Water District			160		C							4e3	C		8		Water Treatment Plant & Transmission Expansions by 2020	$67,592,000	$0	$0	$145	$145	$145	$82	0	0	0	0	0	0	Water Treatment Plant & Transmission Expansions by 2020
North Texas Municipal Water District			160		C							4e3	C		8		Water Treatment Plant & Transmission Expansions by 2030	$187,240,000	$0	$0	$0	$263	$263	$263	0	0	0	0	0	0	Water Treatment Plant & Transmission Expansions by 2030
North Texas Municipal Water District			160		C							4e3	C		8		Water Treatment Plant & Transmission Expansions by 2040	$168,490,000	$0	$0	$0	$0	$246	$246	0	0	0	0	0	0	Water Treatment Plant & Transmission Expansions by 2040
North Texas Municipal Water District			160		C							4e3	C		8		Water Treatment Plant & Transmission Expansions by 2050	$183,724,000	$0	$0	$0	$0	$0	$331	0	0	0	0	0	0	Water Treatment Plant & Transmission Expansions by 2050
Fort Worth			298900		C					8	Trinity	4e2					TRWD System								0	62,973	121,408	169,040	160,245	205,013	Supply from TRWD (Included in TRWD Total)
Fort Worth			298900		C					8	Trinity	4b	C		8		Reuse	$2,909,000	$0	$344	$344	$344	$262	$262	0	500	500	1,100	2,000	2,600	Direct Reuse
Fort Worth			298900		C					8	Trinity	4e2	C		8		Water Treatment Plant Expansions	$27,300,000	$170	$170	$170	$81	$81	$81	0	0	0	0	0	0	Water Treatment Plant Expansions in 2000
Fort Worth			298900		C					8	Trinity	4e2	C		8		Water Treatment Plant Expansions	$82,096,000	$0	$188	$188	$188	$81	$81	0	0	0	0	0	0	Water Treatment Plant Expansions in 2010
Fort Worth			298900		C					8	Trinity	4e2	C		8		Water Treatment Plant Expansions	$52,113,000	$0	$0	$0	$194	$194	$194	0	0	0	0	0	0	Water Treatm ent Plant Expansions in 2030
Fort Worth			298900		C					8	Trinity	4e2	C		8		Water Treatment Plant Expansions	$59,966,000	$0	$0	$0	$0	$0	$237	0	0	0	0	0	0	Water Treatment Plant Expansions in 2050
Trinity River Authority			171		C					8	Trinity	4e2					TRWD System								0	34,722	38,791	41,776	45,021	47,910	Supply from TRWD (Included in TRWD Total)
Trinity River Authority			171		C					8	Trinity	4e2	C		8		Water Treatment Plant Expansion in 2010 (Tarrant	$17,595,000	$0	$233	$233	$233	$81	$81	0	0	0	0	0	0	Water Treatment Plant Expansion Phase I (Tarrant County customers)

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																	Co Customers)														
Trinity River Authority			171		C					8	Trinity	4e2	C		8		Water Treatment Plant Expansion in 2030 (Tarrant Co Customers)	$17,595,000	$0	$0	$0	$233	$233	$233	0	0	0	0	0	0	Water Treatment Plant Expansion Phase II (Tarrant County customers)
Trinity River Authority			171		C					8	Trinity	4e2	C		8		Water Treatment Plant Expansion in 2040 (Tarrant Co Customers)	$17,595,000	$0	$0	$0	$0	$233	$233	0	0	0	0	0	0	Water Treatment Plant Expansion Phase III (Tarrant County customers)
Trinity River Authority			171		C					8	Trinity	4e2	C		8		Ellis County Project	$65,945,000	$0	$655	$655	$655	$390	$390	0	0	0	0	0	0	Ellis County Project (Included in supply from TRWD)
Trinity River Authority			171		C					8	Trinity	4b	C		8		Las Colinas Reuse	$5,493,000	$0	$241	$241	$241	$184	$184	0	7,000	7,000	7,000	7,000	7,000	Direct reuse from effluent (landscape irrigation, Dallas County Other).
Trinity River Authority			171		C					8	Trinity	4b	C		8		Joe Pool Reuse Phase I	$5,875,000	$0	$0	$220	$220	$220	$189	0	0	7,000	14,000	14,000	14,000	Indirect reuse from effluent Phase I (Joe Pool Lake, Dallas County Other).
Trinity River Authority			171		C					8	Trinity	4b	C		8		Joe Pool Reuse Phase II	$6,031,000	$0	$0	$0	$0	$222	$222	0	0	0	0	7,000	14,000	Indirect reuse from effluent Phase II (Joe Pool Lake, Dallas County Other).
Trinity River Authority			171		C					8	Trinity	4b	C		8		Mountain Creek Reuse	$2,015,000	$0	$0	$252	$252	$252	$204	0	0	3,000	3,000	3,000	3,000	Indirect reuse from effluent (Mountain Creek, Dallas County Steam Electric).
Trinity River Authority			171		C					8	Trinity	4b	C		8		Ellis County Reuse	$22,958,000	$0	$316	$316	$316	$233	$233	0	20,000	20,000	20,000	20,000	20,000	Direct reuse from effluent (Ellis County, Ellis County Steam Electric).
Trinity River Authority			171		C					8	Trinity	4b	C		8		Denton County Reuse	$2,653,000	$0	$232	$232	$232	$194	$194	0	2,000	4,000	5,000	5,000	5,000	Indirect reuse from effluent (Denton Creek Plant, Denton County Other).
Trinity River Authority			171		C					8	Trinity	4b	C		8		Tarrant County Reuse	$1,326,000	$0	$232	$232	$232	$194	$194	0	1,000	2,000	2,500	2,500	2,500	Indirect reuse from effluent (Denton Creek Plant, Tarrant County Other).
Trinity River Authority			171		C					8	Trinity	4b	C		8		Grapevine Lake Reuse Phase I	$1,000,000	$0	$0	$172	$172	$172	$163	0	0	4,000	8,000	8,000	8,000	Indirect reuse from effluent Phase I (Grapevine Lake, Dallas County Other).
Trinity River Authority			171		C					8	Trinity	4b	C		8		Grapevine Lake Reuse Phase II		$0	$0	$0	$0	$163	$163	0	0	0	0	8,000	8,000	Indirect reuse from effluent Phase II (Grapevine Lake, Dallas County Other).
Upper Trinity Regional Water District					C					8		4c	D		3	03010	Lake Chapman								0	15,000	14,900	14,800	14,700	10,900	Lake Chapman (Costs included with Irving's cost to connect to Lake Chapman)
Upper Trinity Regional Water District					C					8		4c	D		3	03010	Lake Chapman	$0	$0	$0	$0	$0	$0	$489	0	0	0	0	0	3,700	Buy Lake Chapman water in 2050 from City of Commerce. (Costs included with Irving's cost to connect to Lake Chapman)
Upper Trinity Regional Water District					C					8		4b	D		3		Reuse	$1,000,000	$0	$168	$168	$168	$0	$0	0	14,200	14,200	14,100	14,000	13,900	Indirect reuse of Chapman water

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Upper Trinity Regional Water District					C					8		4o	C		8		Water Treatment Plant & Transmission Expansion by 2010	$79,479,000	$0	$522	$522	$522	$110	$110	0	0	0	0	0	0	Expand water treatment plant & transmission capacity by 2010
Upper Trinity Regional Water District					C					8		4o	C		8		Water Treatment Plant & Transmission Expansion by 2020	$123,776,000	$0	$0	$314	$314	$314	$100	0	0	0	0	0	0	Expand water treatment plant & transmission capacity by 2020
Upper Trinity Regional Water District					C					8		4o	C		8		Water Treatment Plant & Transmission Expansion by 2030	$99,969,000	$0	$0	$0	$369	$369	$369	0	0	0	0	0	0	Expand water treatment plant & transmission capacity by 2030
Upper Trinity Regional Water District					C					8		4o	C		8		Water Treatment Plant & Transmission Expansion by 2040	$99,969,000	$0	$0	$0	$0	$369	$369	0	0	0	0	0	0	Expand water treatment plant & transmission capacity by 2040
Upper Trinity Regional Water District					C					8		4o	C		8		Water Treatment Plant & Transmission Expansion by 2050	$75,964,000	$0	$0	$0	$0	$0	$609	0	0	0	0	0	0	Expand water treatment plant & transmission capacity by 2050
Collin County																															
North Texas Municipal Water District	Allen		160	30012000	C	12	8	43	Collin	8	Trinity	4e3					NTMWD System								0	5,412	14,119	20,014	17,732	21,407	Current NTMWD customer.
	Blue Ridge			30094000	C	94	829	43	Collin	8	Trinity	4c	C	43	8	04329	Woodbine Aquifer	$260,000	$344	$344	$0	$0	$0	$0	1	0	0	0	0	0	Add new wells & overdraft Woodbine Aquifer thru 2010.
	Blue Ridge			30094000	C	94	829	43	Collin	8	Trinity	4c	C	43	8	04329	Woodbine Aquifer	$0	$0	$0	$344	$110	$110	$110	0	15	20	25	28	28	Reallocate Woodbine Aquifer (new well)
	Celina			30154000	C	154	103	43	Collin	8	Trinity	4c	C	43	8		Trinity Aquifer		$71	$0	$0	$0	$0	$0	108	0	0	0	0	0	Overdraft Trinity Aquifer in 2000
	Celina			30154000	C	154	103	43	Collin	8	Trinity	4c	D		3	03010	UTRWD (Chapman)								0	1,214	1,456	1,210	1,393	1,383	UTRWD (Lake Chapman) new customer. See UTRWD for costs.
	Celina			30154000	C	154	103	43	Collin	8	Trinity	4b	D		3		UTRWD (Reuse)								0	1,200	1,386	1,149	1,322	1,313	UTRWD (reuse) new customer. See UTRWD for costs.
Dallas	Celina		206800	30154000	C	154	103	43	Collin	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	3,303	4,862	6,276	New UTRWD (DWU) customer. See UTRWD and DWU for costs.
Dallas	Dallas	P	206800	30227000	C	227	151	43	Collin	8	Trinity	4e1					Dallas System								1,128	2,880	1,564	0	0	143	Current DWU customer. See Dallas costs.
North Texas Municipal Water District	Fairview		160	30291000	C	291	772	43	Collin	8	Trinity	4e3					NTMWD System								0	277	611	888	849	1,155	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Farmersville		160	30294000	C	294	199	43	Collin	8	Trinity	4e3					NTMWD System								0	153	396	592	577	764	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Frisco	P	160	30319000	C	319	221	43	Collin	8	Trinity	4e3					NTMWD System								0	4,738	15,276	29,810	35,934	53,646	Current NTMWD customer. See NTMWD costs.

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
North Texas Municipal Water District	Garland	P	160	30334000	C	334	230	43	Collin	8	Trinity	4e3					NTMWD System								0	2	1	3	2	5	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Lucas		160	30547000	C	547	718	43	Collin	8	Trinity	4e3					NTMWD System								0	220	472	745	733	984	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	McKinney		160	30577000	C	577	379	43	Collin	8	Trinity	4e3					NTMWD System								0	7,680	22,145	37,013	39,296	54,674	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Melissa		160	30584000	C	584	914	43	Collin	8	Trinity	4e3					NTMWD System								0	25	57	87	75	91	Current North Collins WSC (NTMWD) customer. See NTMWD costs.
North Texas Municipal Water District	Murphy		160	30619000	C	619	724	43	Collin	8	Trinity	4e3					NTMWD Sy stem								0	438	1,257	1,885	1,824	2,392	Current NTMWD customer.
North Texas Municipal Water District	New Hope		160	30631000	C	631	923	43	Collin	8	Trinity	4e3					NTMWD System								0	20	41	54	48	59	North Collins WSC (NTMWD) customer. See NTMWD costs.
North Texas Municipal Water District	Parker		160	30679000	C	679	733	43	Collin	8	Trinity	4e3					NTMWD System								0	460	1,649	3,496	4,414	6,827	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Plano	P	160	30704000	C	704	472	43	Collin	8	Trinity	4e3					NTMWD System								0	19,534	38,402	48,723	42,240	50,335	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Princeton		160	30724000	C	724	487	43	Collin	8	Trinity	4e3					NTMWD System								0	155	433	635	596	742	Current NTMWD customer. See NTMWD costs.
	Prosper			30726000	C	726	799	43	Collin	8	Trinity	4c	C	43	8	04329	Woodbine Aquifer	$0	$71	$0	$0	$0	$0	$0	188	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000. Existing wells can meet demand.
North Tex as Municipal Water District	Prosper		160	30726000	C	726	799	43	Collin	8	Trinity	4e3					NTMWD System								0	909	1,645	2,386	2,335	3,178	Convert to surface water in 2010. New NTMWD customer. See NTMWD costs.
	Prosper			30726000	C	726	799	43	Collin	8	Trinity	4c	D		3	03010	UTRWD (Chapman)								0	921	701	361	410	446	UTRWD (Lake Chapman) new customer. See UTRWD for costs.
	Prosper			30726000	C	726	799	43	Collin	8	Trinity	4b	D		3		UTRWD (Reuse)								0	910	667	343	389	423	UTRWD (reuse) new customer. See UTRWD for costs.
Dallas	Prosper		206800	30726000	C	726	799	43	Collin	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	988	1,431	2,022	New UTRWD (DWU) customer. See UTRWD and DWU for costs.
North Texas Municipal Water District	Richardso n	P	160	30747000	C	747	498	43	Collin	8	Trinity	4e3					NTMWD System								0	904	1,956	2,733	2,553	3,280	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Royse City	P	160	30779000	C	779	522	43	Collin	5	Sabine	4e3					NTMWD System								0	22	57	89	89	123	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Sachse	P	160	30784000	C	784	742	43	Collin	8	Trinity	4e3					NTMWD System								0	22	53	73	76	102	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Wylie	P	160	30991000	C	991	669	43	Collin	8	Trinity	4e3					NTMWD System								0	734	2,079	3,903	4,660	6,936	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	County -Other		160	30996043	C	996	757	43	Collin	5	Sabine	4e3					NTMWD System								0	0	510	949	1,058	1,185	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	County -Other		160	30996043	C	996	757	43	Collin	8	Trinity	4e3					NTMWD System								0	0	9,640	16,475	17,669	19,553	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Manufacturing		160	31001043	C	1001	1001	43	Collin	8	Trinity	4e3					NTMWD System								0	572	1,289	1,836	1,828	2,458	Current NTMWD customer. See NTMWD costs.

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	**Water User Group Name**	P	**Major Water Provider (TWDB Alpha Number)**	**Water User Group Identifier**	**Regional Water Planning Group Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Type of Water Supply**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Cost for 2000 (Total Annual Cost per Acre-Foot)**	**Cost for 2010 (Total Annual Cost per Acre-Foot)**	**Cost for 2020 (Total Annual Cost per Acre-Foot))**	**Cost for 2030 (Total Annual Cost per Acre-Foot)**	**Cost for 2040 (Total Annual Cost per Acre-Foot)**	**Cost for 2050 (Total Annual Cost per Acre-Foot)**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	Comments/Strategies
North Texas Municipal Water District	Steam Electric Power		160	31002043	C	1002	1002	43	Collin	8	Trinity	4e3					NTMWD System								0	4,056	4,859	5,358	7,572	8,437	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Steam Electric Power		160	31002043	C	1002	1002	43	Collin	8	Trinity	4b					NTMWD Reuse	$14,111,000	$0	$342	$342	$342	$200	$200	0	4,000	4,000	4,000	7,200	7,200	NTMWD reuse
Cooke County																															
	Gainesville			30327000	C	327	225	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$0	$42	$0	$0	$0	$0	$0	942	0	0	0	0	0	Overdraft Trinity Aquifer (existing wells)
	Gainesville			30327000	C	327	225	49	Cooke	8	Trinity	4c	C	49	2	02220	Moss Lake	$2,566,000	$976	$976	$976	$643	$643	$643	561	561	561	561	561	561	1 MGD pipeline from Moss Lake. Raw water cost already being paid separately. Phase I
	Gainesville			30327000	C	327	225	49	Cooke	8	Trinity	4c	C	49	2	02220	Moss Lake	$1,371,000	$0	$789	$789	$789	$611	$611	0	561	561	561	561	561	1 MGD pipeline from Moss Lake. Raw water cost already being paid separately. Phase II
	Gainesville			30327000	C	327	225	49	Cooke	8	Trinity	4c	C	49	2	02220	Moss Lake	$26,785,000	$0	$964	$964	$964	$224	$224	0	2,602	2,602	2,602	2,602	2,602	Parallel pipeline for Cooke County Water Supply Project. Gainesville pays raw water cost separately. Gainesville is projected to be the regional supplier in Cooke County, so water supply amounts include water resold to Muncipal and Manufacturing entities through the Cooke County Water Supply Project. Cost for buying raw water is unknown and is not included.
	Lindsay			30525000	C	525	899	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$0	$42	$0	$0	$0	$0	$0	28	0	0	0	0	0	Overdraft Trinity Aquifer (existing wells)
	Lindsay			30525000	C	525	899	49	Cooke	8	Trinity	4c	C	49	2	02220	Moss Lake		$0	$1,209	$1,209	$1,209	$469	$469	0	97	97	97	97	97	Cooke County Water Supply Project.
	Muenster			30615000	C	615	418	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$0	$42	$0	$0	$0	$0	$0	90	0	0	0	0	0	Overdraft Trinity Aquifer (existing wells)
	Muenster			30615000	C	615	418	49	Cooke	8	Trinity	4j	C	49	8		Muenster Lake	$11,023,000	$0	$1,807	$1,807	$1,807	$1,807	$342	0	446	446	446	446	446	The amount shown for this strategy includes water resold to Manufacturing (see below).
	Valley View			30923000	C	923	981	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$0	$42	$0	$0	$0	$0	$0	30	0	0	0	0	0	Overdraft Trinity Aquifer (existing wells)
	Valley View			30923000	C	923	981	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$160,000	$581	$0	$0	$0	$0	$0	24	0	0	0	0	0	Overdraft Trinity Aquifer (new well)
	Valley View			30923000	C	923	981	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$0	$0	$42	$42	$0	$0	$0	0	30	30	0	0	0	Reallocate Trinity Aquifer (existing well)
	Valley View			30923000	C	923	981	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer		$0	$581	$581	$0	$0	$0	0	24	48	0	0	0	Reallocate Trinity Aquifer (new well)
	Valley View			30923000	C	923	981	49	Cooke	8	Trinity	4c	D		3	03010	UTRWD (Chapman)								0	0	0	39	47	57	UTRWD (Lake Chapman). See UTRWD costs.
	Valley View			30923000	C	923	981	49	Cooke	8	Trinity	4b	D		3		UTRWD (Reuse)								0	0	0	39	47	56	UTRWD (reuse). See UTRWD costs.
	County -Other			30996049	C	996	757	49	Cooke	2	Red	4c	C	49	2	04928	Trinity Aquifer	$0	$42	$0	$0	$0	$0	$0	86	0	0	0	0	0	Overdraft Trinity Aquifer in Red Basin (existing wells)
	County -Other			30996049	C	996	757	49	Cooke	2	Red	4c	C	49	2	04928	Trinity Aquifer	$318,000	$1,296	$0	$0	$0	$0	$0	24	0	0	0	0	0	Overdraft Trinity Aquifer in Red Basin (new wells)

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Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
	County-Other			30996049	C	996	757	49	Cooke	2	Red	4c	C	49	2	04928	Trinity Aquifer	$0	$0	$42	$42	$42	$42	$42	0	86	86	86	86	86	Reallocate Trinity Aquifer in Red Basin (existing well)
	County-Other			30996049	C	996	757	49	Cooke	2	Red	4c	C	49	2	04928	Trinity Aquifer	$0	$0	$1,296	$1,296	$333	$333	$333	0	24	24	24	24	24	Reallocate Trinity Aquifer in Red Basin (new well)
	County-Other			30996049	C	996	757	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$0	$42	$0	$0	$0	$0	$0	631	0	0	0	0	0	Overdraft Trinity Aquifer in Trinity Basin (existing wells)
	County-Other			30996049	C	996	757	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$0	$0	$42	$42	$0	$0	$0	0	503	454	0	0	0	Reallocate Trinity Aquifer in Trinity Basin (existing wells)
	County-Other			30996049	C	996	757	49	Cooke	8	Trinity	4c	C	49	8	04929	Woodbine Aquifer	$1,186,000	$0	$734	$734	$734	$118	$118	0	141	141	141	141	141	Add new well in Woodbine Aquifer in the Trinity Basin
	County-Other			30996049	C	996	757	49	Cooke	8	Trinity	4c	C	49	2	02220	Moss Lake		$0	$1,209	$1,209	$1,209	$469	$469	0	558	558	558	558	558	Cooke County Water Supply Project.
	County-Other			30996049	C	996	757	49	Cooke	8	Trinity	4c	D		3	03010	UTRWD (Chapman)								0	714	458	545	537	527	UTRWD (Lake Chapman). See UTRWD costs.
	County-Other			30996049	C	996	757	49	Cooke	8	Trinity	4b	D		3		UTRWD (Reuse)								0	227	458	544	536	527	UTRWD (reuse). See UTRWD costs.
	Manufacturing			31001049	C	1001	1001	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$0	$42	$0	$0	$0	$0	$0	147	0	0	0	0	0	Overdraft Trinity Aquifer (existing wells)
	Manufacturing			31001049	C	1001	1001	49	Cooke	8	Trinity	4c	C	49	2	02220	Moss Lake		$0	$1,209	$1,209	$1,209	$469	$469	0	260	260	260	260	260	56% Gainesville. Supplied through Cooke County Water Supply Project.
	Manufacturing			31001049	C	1001	1001	49	Cooke	8	Trinity	4o	C	49	8		Muenster Lake								0	204	204	204	204	204	44% Muenster. Costs included in Muenter's costs.
	Mining			31003049	C	1003	1003	49	Cooke	2	Red	4c	C	49	2	04928	Trinity Aquifer	$0	$42	$0	$0	$0	$0	$0	89	0	0	0	0	0	Overdraft Trinity Aquifer (existing wells)
	Irrigation			31004049	C	1004	1004	49	Cooke	2	Red	4c	C	49	2	04928	Trinity Aquifer	$0	$42	$0	$0	$0	$0	$0	39	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
	Irrigation			31004049	C	1004	1004	49	Cooke	2	Red	4c	C	49	2	04928	Trinity Aquifer	$0	$0	$42	$42	$42	$42	$42	0	33	27	44	39	33	Reallocate Trinity Aquifer (existing wells)
	Livestock			31005049	C	1005	1005	49	Cooke	2	Red	4c	C	49	2	04928	Trinity Aquifer	$0	$42	$0	$0	$0	$0	$0	105	0	0	0	0	0	Overdraft Trinity Aquifer in Red Basin in 2000 (existing wells)
	Livestock			31005049	C	1005	1005	49	Cooke	2	Red	4c	C	49	2	04928	Trinity Aquifer	$0	$0	$42	$42	$42	$42	$42	0	105	105	146	146	146	Reallocate Trinity Aquifer in Red Basin (existing well)
	Livestock			31005049	C	1005	1005	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$0	$42	$0	$0	$0	$0	$0	270	0	0	0	0	0	Overdraft Trinity Aquifer in Trinity Basin in 2000 (existing wells)
	Livestock			31005049	C	1005	1005	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$0	$0	$42	$42	$42	$42	$42	0	270	270	348	348	348	Reallocate Trinity Aquifer in Trinity Basin (existing wells)
	Livestock			31005049	C	1005	1005	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$157,000	$1,627	$0	$0	$0	$0	$0	8	0	0	0	0	0	Overdraft Trinity Aquifer in Trinity Basin in 2000 (new well)
	Livestock			31005049	C	1005	1005	49	Cooke	8	Trinity	4c	C	49	8	04928	Trinity Aquifer	$0	$0	$1,627	$1,627	$201	$201	$201	0	8	8	8	8	8	Reallocate Trinity Aquifer in Trinity Basin (new well)
Dallas County																															
Dallas	Addison		206800	30003000	C	3	673	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Addison		206800	30003000	C	3	673	57	Dallas	8	Trinity	4e1					Dallas System								969	2,993	13,970	12,884	13,878	15,291	Current DWU customer. See DWU costs.
Dallas	Balch Springs		206800	30049000	C	49	33	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract with Dallas County WCID #6

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
Dallas	Balch Springs		206800	30049000	C	49	33	57	Dallas	8	Trinity	4e1					Dallas System								369	1,175	4,638	3,929	3,719	3,875	Current Dallas County WCID #6 (DWU) customer. See DWU costs.
Dallas	Carrollton	P	206800	30147000	C	147	98	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Carrollton	P	206800	30147000	C	147	98	57	Dallas	8	Trinity	4e1					Dallas System								1,684	4,142	18,549	15,624	14,813	14,447	Current DWU customer. See DWU costs.
Dallas	Cedar Hill	P	206800	30151000	C	151	102	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Cedar Hill	P	206800	30151000	C	151	102	57	Dallas	8	Trinity	4e1					Dallas System								791	3,129	14,502	15,357	18,719	19,836	Current DWU customer. See DWU costs.
Dallas	Cockrell Hill		206800	30182000	C	182	121	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Cockrell Hill		206800	30182000	C	182	121	57	Dallas	8	Trinity	4e1					Dallas System								96	241	891	734	695	725	Current DWU customer. See DWU costs.
Dallas	Combine	P	206800	30193000	C	193	766	57	Dallas	8	Trinity	4e1					Dallas System								11	34	17	0	0	4	Current Combine WSC (DWU) customer. See DWU costs.
Dallas	Coppell		206800	30201000	C	201	133	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Coppell		206800	30201000	C	201	133	57	Dallas	8	Trinity	4e1					Dallas System								1,108	18,326	14,443	12,254	12,070	12,916	Current DWU customer. See DWU costs.
Dallas	Dallas	P	206800	30227000	C	227	151	57	Dallas	8	Trinity	4e1					Dallas System								41,471	69,400	10,000	0	0	6,000	Current DWU customer. See DWU costs.
Dallas	De Soto		206800	30234000	C	234	161	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	De Soto		206800	30234000	C	234	161	57	Dallas	8	Trinity	4e1					Dallas System								1,182	3,999	17,349	16,446	17,717	20,208	Current DWU customer. See DWU costs.
Dallas	Duncanville		206800	30256000	C	256	171	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Duncanville		206800	30256000	C	256	171	57	Dallas	8	Trinity	4e1					Dallas System								1,076	3,060	11,803	10,224	10,065	10,487	Current DWU customer. See DWU costs.
Dallas	Farmers Branch		206800	30293000	C	293	198	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Farmers Branch		206800	30293000	C	293	198	57	Dallas	8	Trinity	4e1					Dallas System								1,483	3,569	16,781	14,671	15,641	17,704	Current DWU customer. See DWU costs.
North Texas Municipal Water District	Garland	P	160	30334000	C	334	230	57	Dallas	8	Trinity	4e3					NTMWD System								0	8,590	17,390	22,494	19,652	23,412	Current NTMWD customer. See NTMWD costs.
Dallas	Glenn Heights	P	206800	30344000	C	344	697	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Glenn Heights	P	206800	30344000	C	344	697	57	Dallas	8	Trinity	4e1					Dallas System								94	287	147	1,203	1,331	1,553	Current DWU customer. See DWU costs.
Dallas	Grand Prairie	P	206800	30353000	C	353	245	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Grand Prairie	P	206800	30353000	C	353	245	57	Dallas	8	Trinity	4e1					Dallas System								1,855	4,434	19,813	16,156	15,674	15,941	Current DWU customer. See DWU costs.
Dallas	Grapevine	P	206800	30360000	C	360	249	57	Dallas	8	Trinity	4e1					Dallas System								0	3	5	6	9	10	New DWU customer.
	Grapevine	P		30360000	C	360	249	57	Dallas	8	Trinity	4b					Direct Reuse								0	3	5	6	9	10	Direct reuse. See costs in Tarrant County portion of Grapevine.
Dallas	Hutchins		206800	30429000	C	429	294	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Hutchins		206800	30429000	C	429	294	57	Dallas	8	Trinity	4e1					Dallas System								101	336	1,493	1,559	1,876	2,385	Current DWU customer. See DWU costs.
	Irving			30437000	C	437	298	57	Dallas	8	Trinity	4c	D		3	03010	Irving connection to Lake Chapman	$97,500,000	$0	$147	$147	$147	$47	$47	0	50,200	49,900	49,500	49,100	48,800	Lake Chapman connection. Costs shared with UTRWD (Chapman)
	Irving			30437000	C	437	298	57	Dallas	8	Trinity	4b					Reuse	$29,076,000	$0	$0	$0	$292	$292	$292	0	0	0	24,000	24,000	24,000	Indirect Reuse. Alternative after 2030.
Dallas	Irving		206800	30437000	C	437	298	57	Dallas	8	Trinity	4j	D		3	03050	Marvin Nichols I (Phase I)	$48,904,000	$0	$0	$0	$372	$372	$372	0	0	0	20,000	20,000	20,000	Participant in Marvin Nichols I Reservoir (Phase I)

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
Dallas	Irving		206800	30437000	C	437	298	57	Dallas	8	Trinity	4j	D		3	03050	Marvin Nichols I (Phase II)	$29,152,000	$0	$0	$0	$0	$0	$256	0	0	0	0	0	5,000	Participant in Marvin Nichols I Reservoir (Phase II)
Dallas	Irving		206800	30437000	C	437	298	57	Dallas	8	Trinity	4e1					Dallas System								5,931	1,716	0	0	0	0	Current DWU customer. See DWU costs.
	Irving			30437000	C	437	298	57	Dallas	8	Trinity	4c					Oklahoma Water	$112,974,000	$0	$0	$0	$766	$766	$766	0	0	0	25,000	25,000	25,000	Oklahoma water. (Alternative strategy after year 2030.)
Dallas	Lancaster		206800	30429000	C	509	345	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Lancaster		206800	30437000	C	509	345	57	Dallas	8	Trinity	4e1					Dallas System								594	1,669	6,599	5,632	5,351	5,373	Current DWU customer. See DWU costs.
Dallas	Lewisville	P	206800	30519000	C	519	355	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Lewisville	P	206800	30519000	C	519	355	57	Dallas	8	Trinity	4e1					Dallas System								25	77	451	453	505	599	Current DWU customer. See DWU costs.
North Texas Municipal Water District	Mesquite		160	30592000	C	592	401	57	Dallas	8	Trinity	4e3					NTMWD System								0	5,928	13,828	20,243	19,673	23,011	Current NTMWD customer. See NTMWD costs.
Dallas	Ovilla	P	206800	30663000	C	663	729	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract with Cedar Hill
Dallas	Ovilla	P	206800	30663000	C	663	729	57	Dallas	8	Trinity	4e1					Dallas System								11	32	126	118	124	143	Current Cedar Hill (DWU) customer. See DWU costs.
North Texas Municipal Water District	Richardson	P	160	30747000	C	747	498	57	Dallas	8	Trinity	4e3					NTMWD System								0	6,053	12,707	16,799	14,918	18,190	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Rowlett	P	160	30777000	C	777	521	57	Dallas	8	Trinity	4e3					NTMWD System								0	2,110	5,020	7,369	6,839	8,870	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Sachse	P	160	30784000	C	784	742	57	Dallas	8	Trinity	4e3					NTMWD System								0	764	1,740	2,561	2,457	3,128	Current NTMWD customer. See NTMWD costs.
Dallas	Seagoville		206800	30812000	C	812	547	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Seagoville		206800	30812000	C	812	547	57	Dallas	8	Trinity	4e1					Dallas System								257	1,038	4,448	4,172	4,416	4,794	Current DWU customer. See DWU costs.
North Texas Municipal Water District	Sunnyvale		160	30871000	C	871	749	57	Dallas	8	Trinity	4e3					NTMWD System								0	399	1,027	1,380	1,218	1,465	Current NTMWD customer. See NTMWD costs.
	Wilmer			30975000	C	975	657	57	Dallas	8	Trinity	4c	C	57	8	05728	Trinity Aquifer	$0	$147	$0	$0	$0	$0	$0	136	0	0	0	0	0	Overdraft Trinity Aquifer in 2000. Existing system can handle demand.
Dallas	Wilmer		206800	30975000	C	975	657	57	Dallas	8	Trinity	4e1					Dallas System								0	376	348	297	274	286	New DWU customer. See DWU costs.
Dallas	County -Other		206800	30996057	C	996	757	57	Dallas	8	Trinity	4e1					Dallas System								0	452	7,100	3,466	4,241	4,867	Current DWU customer. See DWU costs.
Dallas	County -Other		206800	30996057	C	996	757	57	Dallas	8	Trinity	4e1					Dallas System								0	0	0	6,000	31,000	25,000	Additional Dallas County Other. See DWU costs.
	County -Other			30996057	C	996	757	57	Dallas	8	Trinity	4j	D		3	03050	Marvin Nichols I (Phase I)	$80,646,000	$0	$0	$0	$374	$374	$374	0	0	0	12,000	12,000	12,000	New Dallas County (Marvin Nichols I -Phase I)
	County -Other			30996057	C	996	757	57	Dallas	8	Trinity	4j	D		3	03050	Marvin Nichols I (Phase II)	$49,191,000	$0	$0	$0	$0	$0	$255	0	0	0	0	0	27,000	New Dallas County (Marvin Nichols I - Phase II)
Trinity River Authority	County -Other		171	30996057	C	996	757	57	Dallas	8	Trinity	4b	C		8		TRA/Las Colinas Reuse	$5,493,000	$0	$241	$241	$241	$184	$184	0	7,000	7,000	7,000	7,000	7,000	TRA/Las Colinas Direct Reuse
Trinity River Authority	County -Other		171	30996057	C	996	757	57	Dallas	8	Trinity	4b	C		8		Joe Pool Reuse Phase I	$51,765,000	$0	$0	$291	$291	$291	$104	0	0	7,000	14,000	14,000	14,000	TRA Reuse - Phase I (Joe Pool) (Indirect)
Trinity River Authority	County -Other		171	30996057	C	996	757	57	Dallas	8	Trinity	4b	C		8		Joe Pool Reuse Phase II	$41,213,000	$0	$0	$0	$0	$236	$236	0	0	0	0	7,000	14,000	TRA Reuse - Phase II (Joe Pool) (Indirect)

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
Trinity River Authority	County-Other		171	30996057	C	996	757	57	Dallas	8	Trinity	4b	C		8		Grapevine Lake Reuse Phase I	$38,701,000	$0	$0	$377	$377	$377	$107	0	0	4,000	8,000	8,000	8,000	TRA Reuse - Phase I (Grapevine) (Indirect)
Trinity River Authority	County-Other		171	30996057	C	996	757	57	Dallas	8	Trinity	4b	C		8		Grapevine Lake Reuse Phase II	$29,967,000	$0	$0	$0	$0	$298	$298	0	0	0	0	8,000	8,000	TRA Reuse - Phase II (Grapevine) (Indirect)
	County-Other			30996057	C	996	757	57	Dallas	8	Trinity	4o	C		8		Water Treatment Plant Expansion by 2030	$34,980,000	$0	$0	$0	$263	$263	$263	0	0	0	0	0	0	New water treatment plant by 2030 (Dallas County Other).
	County-Other			30996057	C	996	757	57	Dallas	8	Trinity	4o	C		8		Water Treatment Plant Expansion by 2050	$44,974,000	$0	$0	$0	$0	$0	$198	0	0	0	0	0	0	Expand water treatment plant by 2050 (Dallas County Other).
Dallas	Manufacturing		206800	31001057	C	1001	1001	57	Dallas	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Manufacturing		206800	31001057	C	1001	1001	57	Dallas	8	Trinity	4e1					Dallas System								4,732	12,644	8,423	0	1,678	3,401	Current DWU customer. See DWU costs.
Dallas	Manufacturing		206800	31001057	C	1001	1001	57	Dallas	8	Trinity	4e1					Dallas System								350	0	0	0	0	0	Irving (DWU sources). See Irving and DWU costs.
	Manufacturing			31001057	C	1001	1001	57	Dallas	8	Trinity	4j	D		3	03010	Lake Chapman (Irving)								0	532	334	2,925	2,925	2,925	Irving (Chapman). See Irving costs.
North Texas Municipal Water District	Manufacturing		160	31001057	C	1001	1001	57	Dallas	8	Trinity	4e3					NTMWD System								0	1,935	636	601	789	1,444	Current NTMWD customer. See NTMWD costs.
Dallas	Steam Electric Power		206800	31002057	C	1002	1002	57	Dallas	8	Trinity	4e1					Dallas System								113	3,000	3,390	3,000	3,000	3,000	Current DWU customer. See DWU costs.
Dallas	Steam Electric Power		206800	31002057	C	1002	1002	57	Dallas	8	Trinity	4e1					Dallas System								0	0	0	0	0	9,550	Renew DWU Contract for TXU's Northlake Plant. See DWU costs.
Dallas	Steam Electric Power		206800	31002057	C	1002	1002	57	Dallas	8	Trinity	4e1					Dallas System								0	0	3,000	3,000	3,000	3,000	Renew DWU contract for TXU's Hubbard Plant. See DWU costs.
North Texas Municipal Water District	Steam Electric Power		160	31002057	C	1002	1002	57	Dallas	8	Trinity	4e3					NTMWD System								0	45	121	139	112	186	Current NTMWD customer. See NTMWD costs.
Trinity River Authority	Steam Electric Power		171	31002057	C	1002	1002	57	Dallas	8	Trinity	4b	C		8		Mountain Creek Reuse	$6,808,000	$0	$0	$245	$245	$245	$197	0	0	3,000	3,000	3,000	3,000	TRA/Mountain Creek Reuse (Indirect)
	Mining			31003057	C	1003	1003	57	Dallas	8	Trinity	4c	C	57	8	05728	Trinity Aquifer	$1,372,000	$299	$299	$124	$0	$0	$0	1,350	1,859	0	0	0	0	Add new wells & overdraft Trinity Aquifer thru 2010.
Dallas	Mining		206800	31003057	C	1003	1003	57	Dallas	8	Trinity	4e1					Dallas System								0	0	3,378	3,672	4,431	5,580	New DWU customer. See DWU costs.
Denton County																															
	Argyle			30036000	C	36	677	61	Denton	6	Trinity	4c	D		3		UTRWD (Chapman)								0	483	236	0	0	0	UTRWD (Lake Chapman). See UTRWD costs.
	Argyle			30036000	C	36	677	61	Denton	7	Trinity	4b	D		3		UTRWD (Reuse)								0	477	224	0	0	0	UTRWD (reuse). See UTRWD costs.
Dallas	Argyle		206800	30036000	C	36	677	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract with UTRWD
Dallas	Argyle		206800	30036000	C	36	677	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	4,186	4,365	4,465	Current UTRWD (DWU) customer. See UTRWD and DWU costs.

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
	Aubrey			30043000	C	43	758	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	55	25	119	131	205	UTRWD (Lake Chapman). See UTRWD costs.
	Aubrey			30043000	C	43	758	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	54	24	113	124	195	UTRWD (reuse). See UTRWD costs.
Dallas	Aubrey		206800	30043000	C	43	758	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	(*) Renew DWU Contract with UTRWD
Dallas	Aubrey		206800	30043000	C	43	758	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	325	456	928	(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Dallas	Bartonville		206800	30058000	C	58	820	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	(*) Renew DWU Contract with UTRWD.
	Bartonville			30058000	C	58	820	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	348	125	0	0	0	UTRWD (Lake Chapman). See UTRWD costs.
	Bartonville			30058000	C	58	820	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	344	119	0	0	0	UTRWD (reuse). See UTRWD costs.
Dallas	Bartonville		206800	30058000	C	58	820	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	2,370	2,754	3,003	(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Dallas	Carrollton	P	206800	30147000	C	147	98	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Carrollton	P	206800	30147000	C	147	98	61	Denton	8	Trinity	4e1					Dallas System								1,464	3,827	17,725	15,265	14,812	14,787	Current DWU customer. See DWU costs.
Dallas	Copper Canyon		206800	30202000	C	202	849	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	(*) Renew DWU Contract with UTRWD.
	Copper Canyon			30202000	C	202	849	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	216	89	0	0	0	UTRWD (Lake Chapman). See UTRWD costs.
	Copper Canyon			30202000	C	202	849	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	214	85	0	0	0	UTRWD (reuse). See UTRWD costs.
Dallas	Copper Canyon		206800	30202000	C	202	849	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	1,320	1,541	1,682	(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
	Corinth			30204000	C	204	691	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	1,251	455	1,509	1,233	1,072	UTRWD (Lake Chapman). See UTRWD costs.
	Corinth			30204000	C	204	691	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	1,236	433	1,433	1,171	1,017	UTRWD (reuse). See UTRWD costs.
Dallas	Corinth		206800	30204000	C	204	691	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract with UTRWD
Dallas	Corinth		206800	30204000	C	204	691	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	4,121	4,304	4,862	Current UTRWD (DWU) customer. See UTRWD and DWU costs.
	Crossroads			30000000	C		1011	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	61	48	256	320	494	UTRWD (Lake Chapman). See UTRWD costs.
	Crossroads			30000000	C		1011	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	60	46	243	303	469	UTRWD (reuse). See UTRWD costs.
Dallas	Crossroads		206800	30000000	C		1011	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	(*) Renew DWU Contract with UTRWD.
Dallas	Crossroads		206800	30000000	C		1011	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	699	1,115	2,242	(*) Current Mustang WSC (UTRWD from DWU) customer. See UTRWD and DWU costs.
Dallas	Dallas	P	206800	30227000	C	227	151	61	Denton	8	Trinity	4e1					Dallas System								760	2,114	209	0	0	102	Current DWU customer. See DWU costs.
Dallas	Denton		206800	30240000	C	240	159	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Denton		206800	30240000	C	240	159	61	Denton	8	Trinity	4e1					Dallas System								0	0	10,459	18,360	26,998	39,512	Current DWU customer. See DWU costs.
	Denton			30240000	C	240	159	61	Denton	8	Trinity	4o					Expand water treatment plant in 2000	$29,983,000	$276	$276	$276	$81	$81	$81	0	0	0	0	0	0	Expand water treatment plant in 2000

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
	Denton			30240000	C	240	159	61	Denton	8	Trinity	4o					Expand water treatment plant in 2020	$29,983,000	$0	$0	$211	$211	$211	$81	0	0	0	0	0	0	Expand water treatment plant in 2020
	Denton			30240000	C	240	159	61	Denton	8	Trinity	4o					Expand water treatment plant in 2040	$29,983,000	$0	$0	$0	$0	$211	$211	0	0	0	0	0	0	Expand water treatment plant in 2040
Dallas	Double Oak		206800	30251000	C	251	768	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	(*) Renew DWU Contract with UTRWD.
	Double Oak			30251000	C	251	768	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	194	58	0	0	0	UTRWD (Lake Chapman). See UTRWD costs.
	Double Oak			30251000	C	251	768	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	192	55	0	0	0	UTRWD (reuse). See UTRWD costs.
Dallas	Double Oak		206800	30251000	C	251	768	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	997	992	1,045	(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Dallas	Flower Mound		206800	30301000	C	301	204	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract with UTRWD
	Flower Mound			30301000	C	301	204	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	3,469	1,357	0	0	0	UTRWD (Lake Chapman). See UTRWD costs.
	Flower Mound			30301000	C	301	204	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	3,430	1,291	0	0	0	UTRWD (reuse). See UTRWD costs.
Dallas	Flower Mound		206800	30301000	C	301	204	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	23,492	26,195	28,951	Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Dallas	Flower Mound		206800	30301000	C	301	204	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Flower Mound		206800	30301000	C	301	204	61	Denton	8	Trinity	4e1					Dallas System								711	2,354	8,968	8,968	8,968	8,968	Current DWU customer. See DWU costs.
North Texas Municipal Water District	Frisco	P	160	30319000	C	319	221	61	Denton	8	Trinity	4e3					NTMWD System								0	108	246	382	360	459	Current NTMWD customer. See NTMWD costs.
	Hebron			30390000	C	390	776	61	Denton	7	Trinity	4c					Woodbine Aquifer	$0	$79	$0	$0	$0	$0	$0	200	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000. Existing pumps can meet this demand.
	Hebron			30390000	C	390	776	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	558	395	150	129	130	UTRWD (Lake Chapman) new customer. See UTRWD costs.
	Hebron			30390000	C	390	776	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	552	375	143	122	123	UTRWD (reuse) new customer. See UTRWD costs.
Dallas	Hebron		206800	30390000	C	390	776	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	411	448	590	(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
	Hickory Creek			30399000	C	399	704	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	181	80	279	267	257	UTRWD (Lake Chapman). See UTRWD costs.
	Hickory Creek			30399000	C	399	704	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	179	77	265	254	244	UTRWD (reuse). See UTRWD costs.
Dallas	Hickory Creek		206800	30399000	C	399	704	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract with UTRWD
Dallas	Hickory Creek		206800	30399000	C	399	704	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	764	932	1,163	Current Lake Cities MUA (UTRWD from DWU) customer. See UTRWD and DWU costs.
	Highland Village			30403000	C	403	706	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	998	238	758	621	565	UTRWD (Lake Chapman). See UTRWD costs.
	Highland Village			30403000	C	403	706	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	986	225	719	594	531	UTRWD (reuse). See UTRWD costs.
Dallas	Highland Village		206800	30403000	C	403	706	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract with UTRWD

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
Dallas	Highland Village		206800	30403000	C	403	706	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	2,068	2,190	2,528	Current UTRWD (DWU) customer. See UTRWD and DWU costs.
	Justin			30456000	C	456	784	61	Denton	8	Trinity	4c	C	61	8	06128	Trinity Aquifer	$0	$79	$0	$0	$0	$0	$0	180	0	0	0	0	0	Overdraft Trinity Aquifer in 2000. Existing pumps can meet this demand.
	Justin			30456000	C	456	784	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	516	479	0	0	0	UTRWD (Lake Chapman). See UTRWD costs.
	Justin			30456000	C	456	784	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	510	456	0	0	0	UTRWD (reuse). See UTRWD costs.
Dallas	Justin		206800	30456000	C	456	784	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	1,382	2,241	2,798	(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
	Krugerville			30481000	C	481	892	61	Denton	8	Trinity	4c	C	61	8	06128	Trinity Aquifer	$547,000	$217	$118	$118	$0	$0	$0	77	0	0	0	0	0	Add new wells & overdraft Trinity Aquifer in 2000.
	Krugerville			30481000	C	481	892	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	223	107	58	61	60	UTRWD (Lake Chapman) new customer. See UTRWD costs.
	Krugerville			30481000	C	481	892	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	220	102	55	58	57	UTRWD (reuse) new customer. See UTRWD costs.
Dallas	Krugerville		206800	30481000	C	481	892	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	158	214	274	(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
	Krum			30482000	C	482	785	61	Denton	8	Trinity	4c	C	61	8	06128	Trinity Aquifer	$0	$79	$0	$0	$0	$0	$0	264	0	0	0	0	0	Overdraft Trinity Aquifer in 2000. Existing pumps can meet this demand.
	Krum			30482000	C	482	785	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	694	393	195	197	195	UTRWD (Lake Chapman) new customer. See UTRWD costs.
	Krum			30482000	C	482	785	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	686	373	185	187	185	UTRWD (reuse) new customer. See UTRWD costs.
Dallas	Krum		206800	30482000	C	482	785	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	531	688	882	(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
	Lake Dallas			30498000	C	498	337	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	343	109	347	319	276	UTRWD (Lake Chapman). See UTRWD costs.
	Lake Dallas			30498000	C	498	337	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	339	103	329	303	262	UTRWD (reuse). See UTRWD costs.
Dallas	Lake Dallas		206800	30498000	C	498	337	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract with UTRWD.
Dallas	Lake Dallas		206800	30498000	C	498	337	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	947	1,115	1,252	Current Lake Cities MUA (UTRWD from DWU) customer. See UTRWD and DWU costs.
	Lewisville	P		30519000	C	519	355	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	0	4,954	2,704	2,524	2,368	UTRWD (Lake Chapman) new customer. See UTRWD costs.
	Lewisville	P		30519000	C	519	355	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	0	4,712	2,570	2,400	2,252	UTRWD (reuse) new customer. See UTRWD costs.
Dallas	Lewisville	P	206800	30519000	C	519	355	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	7,397	8,828	10,765	UTRWD (DWU) new customer.
Dallas	Lewisville	P	206800	30519000	C	519	355	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract.
Dallas	Lewisville	P	206800	30519000	C	519	355	61	Denton	8	Trinity	4e1					Dallas System								2,457	6,460	28,025	28,025	28,025	28,025	Current DWU customer. See DWU costs.
	Lincoln Park			30000000	C		1018	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	10	6	41	58	64	UTRWD (Lake Chapman). See UTRWD costs.
	Lincoln Park			30000000	C		1018	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	10	6	39	55	61	UTRWD (reuse). See UTRWD costs.

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
Dallas	Lincoln Park		206800	30000000	C		1018	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	(*) Renew DWU Contract with UTRWD.
Dallas	Lincoln Park		206800	30000000	C		1018	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	114	200	289	(*) Current Mustang WSC (UTRWD from DWU) customer. See UTRWD and DWU costs.
	Little Elm			30527000	C	527	790	61	Denton	8	Trinity	4c	C	61	8	06129	Woodbine Aquifer	$1,309,000	$102	$49	$49	$0	$0	$0	234	0	0	0	0	0	Add new well & overdraft Woodbine Aquifer in 2000.
North Texas Municipal Water District	Little Elm		160	30527000	C	527	790	61	Denton	8	Trinity	4e3					NTMWD System								0	776	1,414	2,059	1,879	2,180	New NTMWD customer. See NTMWD costs.
Fort Worth	Northlake		298900	30000000	C		1020	61	Denton	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth Contract
Fort Worth	Northlake		298900	30000000	C		1020	61	Denton	8	Trinity	4e2					Fort Worth System								0	110	2,375	4,504	4,871	7,070	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
	Northlake			30000000	C		1020	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	22	467	0	0	0	UTRWD (Lake Chapman). See UTRWD costs.
	Northlake			30000000	C		1020	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	22	445	0	0	0	UTRWD (reuse). See UTRWD costs.
Dallas	Northlake		206800	30000000	C		1020	61	Denton	8	Trinity	4e1					Dallas System								0	0	0	1,399	2,014	2,761	(*) DWU Contract with UTRWD. See DWU and UTRWD costs.
	Oak Point			30648000	C	648	930	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	109	73	326	318	305	UTRWD (Lake Chapman). See UTRWD costs.
	Oak Point			30648000	C	648	930	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	108	70	310	302	290	UTRWD (reuse). See UTRWD costs.
Dallas	Oak Point		206800	30648000	C	648	930	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	(*) Renew DWU Contract with UTRWD.
Dallas	Oak Point		206800	30648000	C	648	930	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	892	1,112	1,383	(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
	Pilot Point			30695000	C	695	465	61	Denton	8	Trinity	4c	C	61	8	06128	Trinity Aquifer	$0	$79	$0	$0	$0	$0	$0	279	0	0	0	0	0	Overdraft Trinity Aquifer in 2000. Existing pumps can meet this demand.
	Pilot Point			30695000	C	695	465	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	846	485	253	238	244	UTRWD (Lake Chapman) new customer. See UTRWD costs.
	Pilot Point			30695000	C	695	465	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	837	461	241	226	232	UTRWD (reuse) new customer. See UTRWD costs.
Dallas	Pilot Point		206800	30695000	C	695	465	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	692	834	1,107	(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
North Texas Municipal Water District	Plano	P	160	30704000	C	704	472	61	Denton	8	Trinity	4e3					NTMWD System								0	5	14	23	22	32	Current NTMWD customer. See NTMWD costs.
	Ponder			30000000	C		1021	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	260	350	0	0	0	UTRWD (Lake Chapman) new customer. See UTRWD costs.
	Ponder			30000000	C		1021	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	257	333	0	0	0	UTRWD (reuse) new customer. See UTRWD costs.
Dallas	Ponder		206800	30000000	C		1021	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	1,068	1,294	1,497	(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
Fort Worth	Roanoke		298900	30758000	C	758	800	61	Denton	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth Contract with Trophy Club #1

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
Fort Worth	Roanoke		298900	30758000	C	758	800	61	Denton	8	Trinity	4e2					Fort Worth System								0	43	744	1,091	962	1,291	Current Trophy Club #1 (Fort Worth from TRWD) customer. See Fort Worth and TRWD costs.
	Sanger			30801000	C	801	535	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	723	1,508	672	649	635	UTRWD (Lake Chapman). See UTRWD costs.
	Sanger			30801000	C	801	535	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	715	1,435	638	616	602	UTRWD (reuse). See UTRWD costs.
Dallas	Sanger		206800	30801000	C	801	535	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	(*) Renew DWU Contract with UTRWD.
Dallas	Sanger		206800	30801000	C	801	535	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	1,837	2,263	2,878	(*) Current Denton (UTRWD) (DWU) customer. See UTRWD and DWU costs.
	Shady Shores			30820000	C	820	803	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	112	41	146	141	120	UTRWD (Lake Chapman). See UTRWD costs.
	Shady Shores			30820000	C	820	803	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	111	39	139	134	113	UTRWD (reuse). See UTRWD costs.
Dallas	Shady Shores		206800	30820000	C	820	803	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract with UTRWD
Dallas	Shady Shores		206800	30820000	C	820	803	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	398	492	543	Current Lake Cities MUA (UTRWD from DWU) customer. See UTRWD and DWU costs.
Fort Worth	Southlake	P	298900	30846000	C	846	570	61	Denton	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth Contract
Fort Worth	Southlake	P	298900	30846000	C	846	570	61	Denton	8	Trinity	4e2					Fort Worth System								0	804	599	820	753	1,076	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Dallas	The Colony		206800	30891000	C	891	752	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	The Colony		206800	30891000	C	891	752	61	Denton	8	Trinity	4e1					Dallas System								379	1,724	11,408	10,826	11,498	11,696	Current DWU customer. See DWU costs.
Fort Worth	Trophy Club		298900	30911000	C	911	806	61	Denton	8	Trinity	4e2					Fort Worth System								0	0	0	0	0	0	Renew Fort Worth Contract with Trophy Club #1. See Fort Worth and TRWD costs.
Fort Worth	Trophy Club		298900	30911000	C	911	806	61	Denton	8	Trinity	4e2					Fort Worth System								0	332	5,440	7,692	6,777	9,092	Current Trophy Club #1 (Fort Worth from TRWD) customer. See Fort Worth and TRWD costs.
Trinity River Authority	County-Other		171	30996061	C	996	757	61	Denton	8	Trinity	4b					Denton County Reuse	$2,653,000	$0	$232	$232	$232	$194	$194	0	2,000	4,000	5,000	5,000	5,000	TRA Indirect Reuse (Denton Creek)
Fort Worth	County-Other		298900	30996061	C	996	757	61	Denton	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth Contract
Fort Worth	County-Other		298900	30996061	C	996	757	61	Denton	8	Trinity	4e2					Fort Worth System								0	0	0	5,195	4,500	5,729	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
	County-Other			30996061	C	996	757	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	0	0	4,434	4,688	4,722	UTRWD (Lake Chapman). See UTRWD costs.
	County-Other			30996061	C	996	757	61	Denton	8	Trinity	4b	D		3		UTRWD (Reuse)								0	0	0	4,218	4,452	4,488	UTRWD (reuse). See UTRWD costs.
Dallas	County-Other		206800	30996061	C	996	757	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	(*) Renew DWU Contract with UTRWD.
Dallas	County-Other		206800	30996061	C	996	757	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	12,145	16,369	21,454	(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
	Manufacturing			31001061	C	1001	1001	61	Denton	8	Trinity	4c	D		3		UTRWD (Chapman)								0	257	97	252	263	275	UTRWD (Lake Chapman). See UTRWD costs.
	Manufacturing			31001061	C	1001	1001	61	Denton	8	Trinity	4b	D		3		UTRWD								0	254	92	239	250	261	UTRWD (reuse). See UTRWD

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
																	(Reuse)														costs.
Dallas	Manufacturing		206800	31001061	C	1001	1001	61	Denton	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	(*) Renew DWU Contract with UTRWD.
Dallas	Manufacturing		206800	31001061	C	1001	1001	61	Denton	8	Trinity	4e1					UTRWD (DWU) System								0	0	0	686	917	1,244	(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
	Mining			31003061	C	1003	1003	61	Denton	8	Trinity	4c	C		8	08999	Other Local Supply	$0	$0	$0	$0	$0	$0	$200	0	0	0	0	0	16	Increase Other Local Supply.
	Steam Electric Power			31002061	C	1002	1002	61	Denton	8	Trinity	4b					Reuse	$9,315,000	$0	$319	$319	$319	$196	$196	0	4,000	4,000	4,000	5,500	5,500	Indirect Reuse.
Ellis County																															
Dallas	Cedar Hill	P	206800	30151000	C	151	102	70	Ellis	8	Trinity	4e1					Dallas System								0	0	0	0	0	0	Renew DWU Contract
Dallas	Cedar Hill	P	206800	30151000	C	151	102	70	Ellis	8	Trinity	4e1					Dallas System								1	7	38	43	44	53	Current DWU customer. See DWU costs.
Tarrant Regional Water District	Ennis		190	30284000	C	284	192	70	Ellis	8	Trinity	4e2	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System	$9,182,000	$0	$977	$977	$977	$398	$398	0	3,924	3,924	4,204	4,142	4,114	TRWD (new contract). Water supply amounts contain amounts resold to Manufacturing.
Trinity River Authority	Ferris		171	30296000	C	296	201	70	Ellis	8	Trinity	4c	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		$0	$655	$655	$655	$390	$390	0	807	807	807	807	807	TRA Ellis County Water Supply Project - Easterly Subsystem (existing contract 807 ac-ft/yr). See TRA cost.
Dallas	Glenn Heights	P	206800	30344000	C	344	697	70	Ellis	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Glenn Heights	P	206800	30344000	C	344	697	70	Ellis	8	Trinity	4e1					Dallas System								23	67	34	283	289	311	Current DWU customer. See DWU costs.
Dallas	Grand Prairie	P	206800	30353000	C	353	245	70	Ellis	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Grand Prairie	P	206800	30353000	C	353	245	70	Ellis	8	Trinity	4e1					Dallas System								1	5	43	34	33	32	Current DWU customer. See DWU costs.
	Italy			30438000	C	438	299	70	Ellis	8	Trinity	4c	C	70	8	09128	Trinity Aquifer	$0	$82	$0	$0	$0	$0	$0	37	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
Trinity River Authority	Italy		171	30438000	C	438	299	70	Ellis	8	Trinity	4c	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		$0	$655	$655	$655	$390	$390	0	579	579	579	579	579	TRA Ellis County Water Supply Project - Southerly Subsystem (existing contract 560 ac-ft/yr). Expand contract by 19 ac-ft/yr. See TRA cost.
Tarrant Regional Water District	Mansfield	P	190	30559000	C	559	384	70	Ellis	8	Trinity	4e2					TRWD System								0	21	14	50	72	127	Current TRWD customer. See TRWD costs.
	Maypearl			30573000	C	573	911	70	Ellis	8	Trinity	4c	C	70	8	09129	Woodbine Aquifer	$228,000	$309	$206	$206	$0	$0	$0	81	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (new well)
Trinity River Authority	Maypearl		171	30573000	C	573	911	70	Ellis	8	Trinity	4c	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		$0	$655	$655	$655	$390	$390	0	415	415	415	415	415	TRA Ellis County Water Supply Project - Westerly Subsystem (existing contract 415 ac-ft/yr). See TRA cost.
Trinity River Authority	Midlothian		171	30596000	C	596	405	70	Ellis	8	Trinity	4c	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		$0	$655	$655	$655	$390	$390	0	0	1,825	1,825	1,825	1,825	TRA Ellis County Water Supply Project (existing contract 370 ac-ft/yr). Expanded contract with TRA necessary. Water supply amounts contain amounts resold to Manufacturing. See TRA cost.
	Midlothian			30596000	C	596	405	70	Ellis	8	Trinity	4o	C	81/107	8	086E0	Pipeline Expansion	$847,000	$0	$0	$404	$404	$404	$371	0	0	0	0	0	0	Pipeline Expansion

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
	Midlothian			30596000	C	596	405	70	Ellis	8	Trinity	4o	C	81/107	8	086E0	Water Treatment Plant Expansion Expansion	$5,203,000	$0	$0	$0	$566	$566	$566	0	0	0	0	0	0	Water Treatment Plant Expansion
	Milford			30598000	C	598	916	70	Ellis	8	Trinity	4c	C	70	8	9129	Woodbine Aquifer	$228,000	$309	$206	$206	$0	$0	$0	81	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (new well)
	Milford			30598000	C	598	916	70	Ellis	8	Trinity	4o	G	109	12	12220	Aquilla Creek	$0	$489	$489	$489	$489	$489	$489	95	95	95	95	95	95	Continue to obtain surface water from Files Valley WSC; expand contract if necessary.
Dallas	Oak Leaf	P	206800	30647000	C	647	929	70	Ellis	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract
Dallas	Oak Leaf	P	206800	30647000	C	647	929	70	Ellis	8	Trinity	4e1					Dallas System								25	67	35	277	299	339	Current DWU customer. See DWU costs.
Dallas	Ovilla	P	206800	30663000	C	663	729	70	Ellis	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract with Cedar Hill
Dallas	Ovilla	P	206800	30663000	C	663	729	70	Ellis	8	Trinity	4e1					Dallas System								98	281	1,144	1,060	1,052	1,132	Current Cedar Hill (DWU) customer. See DWU costs.
	Palmer			30671000	C	671	731	70	Ellis	8	Trinity	4c	C	70	8	09129	Woodbine Aquifer	$0	$70	$0	$0	$0	$0	$0	83	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells)
Trinity River Authority	Palmer		171	30671000	C	671	731	70	Ellis	8	Trinity	4c	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		$0	$655	$655	$655	$390	$390	0	390	390	390	390	390	TRA Ellis County Water Supply Project - Easterly Subsystem (existing contract 304 ac-ft/yr). Expanded contract with TRA necessary. See TRA cost.
	Pecan Hill			30686000	C	686	935	70	Ellis	8	Trinity	4o	C		8	08130	Joe Pool Lake	$0	$489	$489	$489	$489	$489	$489	3	9	9	30	37	59	Pecan Hill residents are retail customers of Rockett SUD.
	Red Oak			30739000	C	739	737	70	Ellis	8	Trinity	4c	C	70	8	09129	Woodbine Aquifer	$0	$70	$0	$0	$0	$0	$0	196	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells)
Trinity River Authority	Red Oak	171		30739000	C	739	737	70	Ellis	8	Trinity	4c	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		$0	$655	$655	$655	$390	$390	0	2,108	2,108	2,108	2,108	2,108	TRA Ellis County Water Supply Project - Easterly Subsystem (existing contract 2,108 ac-ft/yr). See TRA cost.
Trinity River Authority	Waxahachie	171		30943000	C	943	633	70	Ellis	8	Trinity	4c	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		$0	$655	$655	$655	$390	$390	0	5,219	5,219	5,219	5,219	5,219	TRA Ellis County Water Supply Project - Raw Water Subsystem (existing contract 5,212 ac-ft/yr). See TRA cost.
Trinity River Authority	County-Other	171		30996070	C	996	757	70	Ellis	8	Trinity	4c	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)	$65,945,000	$0	$655	$655	$655	$390	$390	0	8,687	8,687	8,687	8,687	8,687	TRA Ellis County Water Supply Project (Existing contracts 8,687 ac-ft/yr). See TRA cost.
Trinity River Authority	Manufacturing	171		31001070	C	1001	1001	70	Ellis	8	Trinity	4o	C	70	8	08210	Lake Bardwell (Ellis County WSP)								0	146	146	146	146	146	Manufacturing Supplies according to historical usage. Supplied from Ellis County Water Supply Project. See TRA cost.
Trinity River Authority	Manufacturing	171		31001070	C	1001	1001	70	Ellis	8	Trinity	4c	C		8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)								0	10	10	10	10	10	Manufacturing Supplies according to historical usage. Supplied from Ellis County Water Supply Project. See TRA cost.
Trinity River Authority	Manufacturing	171		31001070	C	1001	1001	70	Ellis	8	Trinity	4o	C	57	8	08130	Joe Pool Lake (Ellis County WSP)								0	1,152	1,152	1,152	1,152	1,152	Manufacturing Supplies according to historical usage. Supplied from Ellis County Water Supply Project. See TRA cost.

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	**Water User Group Name**	P	**Major Water Provider (TWDB Alpha Number)**	**Water User Group Identifier**	**Regional Water Planning Group Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Type of Water Supply**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Cost for 2000 (Total Annual Cost per Acre-Foot)**	**Cost for 2010 (Total Annual Cost per Acre-Foot)**	**Cost for 2020 (Total Annual Cost per Acre-Foot))**	**Cost for 2030 (Total Annual Cost per Acre-Foot)**	**Cost for 2040 (Total Annual Cost per Acre-Foot)**	**Cost for 2050 (Total Annual Cost per Acre-Foot)**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	Comments/Strategies
Trinity River Authority	Manufacturing		171	31001070	C	1001	1001	70	Ellis	8	Trinity	4o	C	70	8	08200	Lake Waxahachie (Ellis County WSP)								0	359	359	359	359	359	Manufacturing Supplies according to historical usage. Supplied from Ellis County Water Supply Project. See TRA cost.
Trinity River Authority	Manufacturing		171	31001070	C	1001	1001	70	Ellis	8	Trinity	4c	C		8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)								0	89	89	89	89	89	Manufacturing Supplies according to historical usage. Supplied from Ellis County Water Supply Project. See TRA cost.
	Steam Electric Power			31002070	C	1002	1002	70	Ellis	8	Trinity	4b	C	70	8		Ennis Reuse	$22,958,000	$0	$316	$316	$316	$233	$233	0	1,822	2,142	2,463	2,409	2,427	Existing 3 MGD contract with Ennis; partially supplied by wastewater (indirect). Additional water treatment may be required depending on water quality.
	Steam Electric Power			31002070	C	1002	1002	70	Ellis	8	Trinity	4o	C	70	8	08210	Lake Bardwell	$0	$0	$490	$490	$490	$490	$490	0	1,541	1,221	900	954	936	Existing 3 MGD contract with Ennis; remainder of contract supplied from Lake Bardwell.
	Steam Electric Power			31002070	C	1002	1002	70	Ellis	8	Trinity	4b	C	57	8	08130	Joe Pool Lake Reuse								34	34	34	34	34	34	Estimated usage from ANP; retail supply from Midlothian. See TRA costs. (Indirect Reuse)
Trinity River Authority	Steam Electric Power		171	31002070	C	1002	1002	70	Ellis	8	Trinity	4b	C				TRA Ten Mile Creek Plant	$22,958,000	$0	$316	$316	$316	$233	$233	0	20,000	20,000	20,000	20,000	20,000	Reuse from TRA Ten Mile Creek plant
Fannin County																															
	Bonham			30098000	C	98	65	74	Fannin	2	Red	4j	C		2		Lower Bois d'Arc Lake		$0	$1,200	$1,200	$1,200	$284	$284	0	500	500	500	500	500	Fannin County Water Supply Project. Capital Cost shown in County Other.
	Honey Grove			30415000	C	415	283	74	Fannin	3	Sulphur	4j	C		2		Lower Bois d'Arc Lake		$0	$1,200	$1,200	$1,200	$284	$284	0	27	27	27	27	27	Fannin County Water Supply Project. Capital Cost shown in County Other.
	Honey Grove			30415000	C	415	283	74	Fannin	2	Red	4j	C		2		Lower Bois d'Arc Lake		$0	$1,200	$1,200	$1,200	$284	$284	0	501	501	501	501	501	Fannin County Water Supply Project. Capital Cost shown in County Other.
	Leonard			30517000	C	517	352	74	Fannin	3	Sulphur	4j	C		2		Lower Bois d'Arc Lake		$0	$1,200	$1,200	$1,200	$284	$284	0	37	37	37	37	37	Fannin County Water Supply Project. Capital Cost shown in County Other.
	Leonard			30517000	C	517	352	74	Fannin	8	Trinity	4j	C		2		Lower Bois d'Arc Lake		$0	$1,200	$1,200	$1,200	$284	$284	0	328	328	328	328	328	Fannin County Water Supply Project. Capital Cost shown in County Other.
	Savoy			30807000	C	807	957	74	Fannin	2	Red	4j	C		2		Lower Bois d'Arc Lake		$0	$1,200	$1,200	$1,200	$284	$284	0	126	126	126	126	126	Fannin County Water Supply Project. Capital Cost shown in County Other.
	Trenton			30908000	C	908	978	74	Fannin	8	Trinity	4j	C		2		Lower Bois d'Arc Lake		$0	$1,200	$1,200	$1,200	$284	$284	0	175	175	175	175	175	Fannin County Water Supply Project. Capital Cost shown in County Other.
	County-Other			30996074	C	996	757	74	Fannin	2	Red	4j	C		2		Lower Bois d'Arc Lake	$54,120,000	$0	$1,200	$1,200	$1,200	$284	$284	0	1,836	1,836	1,836	1,836	1,836	Fannin County Water Supply Project
	County-Other			30996074	C	996	757	74	Fannin	3	Sulphur	4j	C		2		Lower Bois d'Arc Lake		$0	$1,200	$1,200	$1,200	$284	$284	0	561	561	561	561	561	Fannin County Water Supply Project. Capital Cost shown in County Other.
	County-Other			30996074	C	996	757	74	Fannin	8	Trinity	4j	C		2		Lower Bois d'Arc Lake		$0	$1,200	$1,200	$1,200	$284	$284	0	64	64	64	64	64	Fannin County Water Supply Project. Capital Cost shown in County Other.
	County-Other			30996074	C	996	757	74	Fannin	2	Red	4c	C	74	2	07428	Trinity Aquifer	$252,000	$0	$0	$0	$346	$346	$346	0	0	0	72	72	72	Add new well in Trinity Aquifer

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
	County -Other			30996074	C	996	757	74	Fannin	2	Red	4c	C	74	2	07429	Woodbine Aquifer	$243,000	$0	$0	$0	$925	$925	$925	0	0	0	12	13	0	Add new well in Woodbine Aquifer
	County -Other			30996074	C	996	757	74	Fannin	2	Red	4j	C	74	2		Upper Bois d'Arc Reservoir	$89,654,000	$0	$0	$0	$324	$324	$324	0	0	0	26,904	26,904	26,904	Upper Bois d'Arc Creek Reservoir (Alternative after 2030)
	County -Other			30996074	C	996	757	74	Fannin	2	Red	4j	C	74	2		Ralph Hall	$155,530,000	$0	$0	$0	$451	$451	$451	0	0	0	30,500	30,500	30,500	Ralph Hall Reservoir (Alternative after 2030)
Freestone County																															
	Fairfield			30289000	C	289	196	81	Freestone	8	Trinity	4c	C	81	8	08110	Carrizo-Wilcox Aquifer	$178,000	$0	$0	$0	$192	$192	$192	0	0	0	60	75	95	Add new well in Carrizo-Wilcox Aquifer
Tarrant Regional Water District	Fairfield		190	30289000	C	289	196	81	Freestone	8	Trinity	4e2					TRWD System								0	0	0	87	89	128	New TRWD customer. See TRWD costs.
Trinity River Authority	Fairfield		171	30289000	C	289	196	81	Freestone	8	Trinity	4e2					TRA System								0	0	0	87	89	128	New TRA (TRWD) customer. See TRWD costs.
	Wortham			30990000	C	990	668	81	Freestone	8	Trinity	4c	G	147		12370	Lake Mexia	$0	$489	$489	$489	$489	$489	$489	270	280	300	320	325	335	Current contract for Mexia water. Pipeline in place.
Tarrant Regional Water District	Wortham		190	30990000	C	990	668	81	Freestone	8	Trinity	4e2					TRWD System								0	0	470	540	411	478	New TRWD customer. See TRWD costs.
Tarrant Regional Water District	Steam Electric Power		190	31002081	C	1002	1002	81	Freestone	8	Trinity	4e2					TRWD System	$4,989,000	$0	$332	$332	$332	$267	$267	0	5,602	5,602	5,602	5,602	5,602	Calpine contract with TRWD.
Tarrant Regional Water District	Steam Electric Power		190	31002081	C	1002	1002	81	Freestone	8	Trinity	4e2					TRWD System	$4,914,000	$0	$338	$338	$338	$269	$269	0	1,597	2,597	2,982	5,109	5,057	Additional TRWD water (Plant 1)
Tarrant Regional Water District	Steam Electric Power		190	31002081	C	1002	1002	81	Freestone	8	Trinity	4e2					TRWD System	$4,914,000	$0	$338	$338	$338	$269	$269	0	1,597	2,597	2,982	5,109	5,057	Additional TRWD water (Plant 2)
Grayson County																															
	Bells			30071000	C	71	824	91	Grayson	2	Red	4c	C	91	2	09128	Trinity Aquifer	$0	$94	$0	$0	$0	$0	$0	24	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
	Bells			30071000	C	71	824	91	Grayson	2	Red	4c	C	91	2	09129	Woodbine Aquifer	$0	$87	$0	$0	$0	$0	$0	24	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells)
	Bells			30071000	C	71	824	91	Grayson	2	Red	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	135	135	135	135	135	Grayson County Water Supply Project. See County Other cost.
	Collinsville			30187000	C	187	765	91	Grayson	8	Trinity	4c	C	91	8	09128	Trinity Aquifer	$0	$94	$0	$0	$0	$0	$0	52	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
	Collinsville			30187000	C	187	765	91	Grayson	8	Trinity	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	123	123	123	123	123	Grayson County Water Supply Project. See County Other cost.
	Gunter			30370000	C	370	876	91	Grayson	8	Trinity	4c	C	91	8	09128	Trinity Aquifer	$0	$94	$0	$0	$0	$0	$0	61	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
	Gunter			30370000	C	370	876	91	Grayson	8	Trinity	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	164	164	164	164	164	Grayson County Water Supply Project. See County Other cost.

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
	Howe			30419000	C	419	286	91	Grayson	2	Red	4c	C	91	2	09129	Woodbine Aquifer	$0	$87	$0	$0	$0	$0	$0	142	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells); Howe is currently planning a well in the Trinity Aquifer, could overdraft the Trinity Aquifer instead of or in addition to the Woodbine Aquifer.
	Howe			30419000	C	419	286	91	Grayson	2	Red	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	238	238	238	238	238	Grayson County Water Supply Project. See County Other cost.
	Howe			30419000	C	419	286	91	Grayson	8	Trinity	4c	C	91	8	09129	Woodbine Aquifer	$0	$87	$0	$0	$0	$0	$0	29	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells); Howe is currently planning a well in the Trinity Aquifer, could overdraft the Trinity Aquifer instead of or in addition to the Woodbine Aquifer.
	Howe			30419000	C	419	286	91	Grayson	8	Trinity	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	60	60	60	60	60	Grayson County Water Supply Project. See County Other cost.
	Luella			30548000	C	548	905	91	Grayson	2	Red	4c	C	91	2	09129	Woodbine Aquifer	$0	$87	$0	$0	$0	$0	$0	57	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells)
	Luella			30548000	C	548	905	91	Grayson	2	Red	4c	C	91	2	09129	Woodbine Aquifer	$152,000	$1,563	$1,380	$1,380	$0	$0	$0	8	0	0	0	0	0	Overdraft Woodbine Aquifer (new well)
	Luella			30548000	C	548	905	91	Grayson	2	Red	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	82	82	82	82	82	Grayson County Water Supply Project. See County Other cost.
	Pottsboro			30719000	C	719	797	91	Grayson	2	Red	4c	C	91	2	02230P	Lake Texoma	$990,000	$0	$521	$521	$521	$497	$497	0	3,000	3,000	3,000	3,000	3,000	Pottsboro acquires water right, Denison provides treatment.
	Pottsboro			30719000	C	719	797	91	Grayson	2	Red	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	198	198	198	198	198	Grayson County Water Supply Project. See County Other cost.
	Southmayd			30847000	C	847	961	91	Grayson	2	Red	4c	C	91	2	09129	Woodbine Aquifer	$0	$87	$0	$0	$0	$0	$0	35	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells); Southmayd is currently planning a well in the Trinity Aquifer, could overdraft the Trinity Aquifer instead of or in addition to the Woodbine Aquifer.
	Southmayd			30847000	C	847	961	91	Grayson	2	Red	4c	C	91	2	09129	Woodbine Aquifer	$439,000	$349	$247	$247	$0	$0	$0	128	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (new well); Southmayd is currently planning a well in the Trinity Aquifer, could overdraft the Trinity Aquifer instead of or in addition to the Woodbine Aquifer. New well.
	Southmayd			30847000	C	847	961	91	Grayson	2	Red	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	143	143	143	143	143	Grayson County Water Supply Project. See County Other cost.
	Tioga			30902000	C	902	974	91	Grayson	8	Trinity	4c	C	91	2	09128	Trinity Aquifer	$0	$94	$0	$0	$0	$0	$0	23	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
	Tioga			30902000	C	902	974	91	Grayson	8	Trinity	4i	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	86	86	86	86	86	Grayson County Water Supply Project. See County Other cost.
	Tom Bean			30904000	C	904	976	91	Grayson	2	Red	4c	C	91	2	09129	Woodbine Aquifer	$0	$87	$0	$0	$0	$0	$0	110	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells)
	Tom Bean			30904000	C	904	976	91	Grayson	2	Red	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	150	150	150	150	150	Grayson County Water Supply Project. See County Other cost.
	Van Alstyne			30925000	C	925	619	91	Grayson	8	Trinity	4c	C	91	8	09128	Trinity Aquifer	$0	$94	$0	$0	$0	$0	$0	58	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
	Van Alstyne			30925000	C	925	619	91	Grayson	8	Trinity	4c	C	91	8	09129	Woodbine Aquifer	$0	$87	$0	$0	$0	$0	$0	34	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells)
	Van Alstyne			30925000	C	925	619	91	Grayson	8	Trinity	4c	C	91	8	09129	Woodbine Aquifer	$215,000	$963	$781	$781	$0	$0	$0	40	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (new well); Southmayd is currently planning a well in the Trinity Aquifer, could overdraft the Trinity Aquifer instead of or in addition to the Woodbine Aquifer. New well.
	Van Alstyne			30925000	C	925	619	91	Grayson	8	Trinity	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	1,132	1,132	1,132	1,132	1,132	Grayson County Water Supply Project. See County Other cost.
	Whitesboro			30967000	C	967	650	91	Grayson	2	Red	4c	C	91	2	09128	Trinity Aquifer	$0	$94	$0	$0	$0	$0	$0	511	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
	Whitesboro			30967000	C	967	650	91	Grayson	2	Red	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	593	593	593	593	593	Grayson County Water Supply Project. See County Other cost.
	Whitesboro			30967000	C	967	650	91	Grayson	8	Trinity	4c	C	91	8	09128	Trinity Aquifer	$0	$94	$0	$0	$0	$0	$0	14	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
	Whitesboro			30967000	C	967	650	91	Grayson	8	Trinity	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	25	25	25	25	25	Grayson County Water Supply Project. See County Other cost.
	Whitewright			30968000	C	968	652	91	Grayson	2	Red	4c	C	91	2	09129	Woodbine Aquifer	$0	$87	$0	$0	$0	$0	$0	138	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells)
	Whitewright			30968000	C	968	652	91	Grayson	2	Red	4c	C	91	2	09129	Woodbine Aquifer	$0	$0	$87	$87	$0	$0	$0	0	67	63	0	0	0	Reallocate Woodbine Aquifer (existing wells)
	Whitewright			30968000	C	968	652	91	Grayson	2	Red	4c	C	91	2	09128	Trinity Aquifer	$577,000	$0	$524	$524	$346	$0	$0	0	121	121	0	0	0	Reallocate Trinity Aquifer (new well)
	Whitewright			30968000	C	968	652	91	Grayson	2	Red	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	211	211	211	211	211	Grayson County Water Supply Project. See County Other cost.
	County -Other			30996091	C	996	757	91	Grayson	2	Red	4c	C	91	2	09128	Trinity Aquifer	$0	$94	$0	$0	$0	$0	$0	795	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
	County -Other			30996091	C	996	757	91	Grayson	2	Red	4c	C	91	2	09128	Trinity Aquifer	$835,000	$280	$0	$0	$0	$0	$0	805	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (new well)
	County -Other			30996091	C	996	757	91	Grayson	2	Red	4c	C	91	2	09128	Trinity Aquifer		$0	$280	$280	$280	$0	$0	0	805	805	805	0	0	Reallocate Trinity Aquifer (new well)
	County -Other			30996091	C	996	757	91	Grayson	8	Trinity	4c	C	91	2	09129	Woodbine Aquifer	$0	$87	$0	$0	$0	$0	$0	356	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells)
	County -Other			30996091	C	996	757	91	Grayson	2	Red	4c	C	91	2	02230P	Lake Texoma	$94,316,000	$0	$1,687	$1,687	$1,687	$527	$527	0	970	970	970	970	970	Grayson County Water Supply Project.
	County -Other			30996091	C	996	757	91	Grayson	8	Trinity	4c	C	91	2	02230P	Lake Texoma		$0	$1,687	$1,687	$1,687	$527	$527	0	981	981	981	981	981	Grayson County Water Supply Project. See County Other cost.
	Manufacturing			31001091	C	1001	1001	91	Grayson	2	Red	4c	C	91	2	02230P	Lake Texoma	$0	$489	$489	$489	$489	$489	$489	988	1,508	1,868	2,331	2,946	3,795	Assumed to be from Sherman.
	Manufacturing			31001091	C	1001	1001	91	Grayson	8	Trinity	4c	C	91	2	02230P	Lake Texoma	$0	$489	$489	$489	$489	$489	$489	4	5	5	6	7	8	Assumed to be from Sherman.
	Mining			31003091	C	1003	1003	91	Grayson	2	Red	4c	C	91	2	09128	Trinity Aquifer	$0	$94	$0	$0	$0	$0	$0	101	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
	Mining			31003091	C	1003	1003	91	Grayson	2	Red	4c	C	91	2	09128	Trinity Aquifer	$519,000	$249	$0	$0	$0	$0	$0	242	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (1 new well)
	Mining			31003091	C	1003	1003	91	Grayson	2	Red	4c	C	91	2	09128	Trinity Aquifer	$0	$0	$94	$94	$94	$94	$94	0	57	57	57	57	57	Reallocate Trinity Aquifer (existing wells)

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
	Mining			31003091	C	1003	1003	91	Grayson	2	Red	4c	C	91	2	09128	Trinity Aquifer	$513,000	$0	$249	$249	$171	$93	$93	0	483	483	483	483	483	Continue using new well from overdrafting; add additional new well in 2010. Reallocate Trinity Aquifer (new wells).
	Mining			31003091	C	1003	1003	91	Grayson	2	Red	4c	C	91	2	09129	Woodbine Aquifer	$528,000	$232	$0	$0	$0	$0	$0	322	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (new well)
	Mining			31003091	C	1003	1003	91	Grayson	2	Red	4c	C	91	2	09129	Woodbine Aquifer	$0	$0	$232	$232	$119	$119	$119	0	322	322	322	322	322	Reallocate Trinity Aquifer (new well)
	Mining			31003091	C	1003	1003	91	Grayson	8	Trinity	4c	C	91	8	09128	Trinity Aquifer	$0	$94	$0	$0	$0	$0	$0	208	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
	Mining			31003091	C	1003	1003	91	Grayson	8	Trinity	4c	C	91	8	09128	Trinity Aquifer	$214,000	$266	$0	$0	$0	$0	$0	81	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (new well)
	Mining			31003091	C	1003	1003	91	Grayson	8	Trinity	4c	C	91	8	09128	Trinity Aquifer	$0	$0	$94	$94	$94	$94	$94	0	125	125	125	125	125	Reallocate Trinity Aquifer (existing wells)
	Mining			31003091	C	1003	1003	91	Grayson	8	Trinity	4c	C	91	8	09128	Trinity Aquifer	$0	$0	$266	$266	$73	$73	$73	0	81	81	81	81	81	Reallocate Trinity Aquifer (new well)
	Mining			31003091	C	1003	1003	91	Grayson	8	Trinity	4c	C	91	8	09129	Woodbine Aquifer	$0	$87	$0	$0	$0	$0	$0	145	0	0	0	0	0	Overdraft Woodbine Aquifer in 2000 (existing wells)
	Mining			31003091	C	1003	1003	91	Grayson	8	Trinity	4c	C	91	8	09129	Woodbine Aquifer	$0	$0	$0	$0	$87	$87	$87	0	0	0	26	46	130	Reallocate Woodbine Aquifer (existing wells)
	Mining			31003091	C	1003	1003	91	Grayson	2	Red	4b	C		2		Reuse	$0	$0	$163	$163	$163	$163	$163	0	384	384	384	384	384	Indirect Reuse from Denton WWTP
	Mining			31003091	C	1003	1003	91	Grayson	8	Trinity	4b	C		8		Reuse	$0	$0	$163	$163	$163	$163	$163	0	199	199	199	199	199	Indirect Reuse from Sherman WWTP
	Irrigation			31004091	C	1004	1004	91	Grayson	8	Trinity	4c	C	91	8	09128	Trinity Aquifer	$0	$0	$94	$94	$94	$94	$94	0	48	128	360	448	542	Reallocate Trinity Aquifer (existing wells)
Henderson County																															
	Malakoff			30557000	C	557	383	107	Henderson	8	Trinity	4c	C	107	8	10710	Carrizo-Wilcox	$281,000	$145	$85	$85	$0	$0	$0	9	0	0	0	0	0	Add new well & overdraft Carrizo-Wilcox Aquifer in 2000
Tarrant Regional Water District	Malakoff		190	30557000	C	557	383	107	Henderson	8	Trinity	4c	C				Pipeline to TRWD System	$7,809,000	$0	$1,435	$1,435	$1,435	$440	$440	0	560	560	563	563	563	Pipeline to connect to TRWD for potential contract of 560 ac -ft/yr.
Jack County																															
	Bryson			30124000	C	124	834	119	Jack	12	Brazos	4c	C		12	12148	Bryson pipeline to Lake Jacksboro	$2,522,000	$0	$0	$0	$1,015	$1,015	$1,015	0	0	0	250	250	250	Pipeline to connect Bryson to Lake Jacksboro (Option after 2030)
Kaufman County																															
Dallas	Combine	P	206800	30193000	C	193	766	129	Kaufman	8	Trinity	4e1					Dallas System								37	119	60	0	0	7	Current Combine WSC (DWU) customer. See DWU costs.
North Texas Municipal Water District	Crandall		160	30210000	C	210	767	129	Kaufman	8	Trinity	4e3					NTMWD System								0	126	292	451	433	566	Current Kaufman Four One(NTMWD) customer. See NTMWD costs.
Dallas	Dallas	P	206800	30227000	C	227	151	129	Kaufman	8	Trinity	4e1					Dallas System								1	2	2	0	0	1	Current DWU customer. See DWU costs.
North Texas Municipal Water District	Forney		160	30304000	C	304	207	129	Kaufman	8	Trinity	4e3					NTMWD System								0	494	1,535	2,723	3,123	4,626	Current NTMWD customer. See NTMWD costs.

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
North Texas Municipal Water District	Kaufman		160	30459000	C	459	313	129	Kaufman	8	Trinity	4e3					NTMWD System								0	291	692	1,002	931	1,170	Current NTMWD customer. See NTMWD costs.
	Kemp			30463000	C	463	711	129	Kaufman	8	Trinity	4o					Water Treatment Plant Expansion in 2010	$2,813,000	$0	$446	$446	$446	$82	$82	0	0	0	0	0	0	Water Treatment Plant Expansion in 2010.
North Texas Municipal Water District	Oak Grove		160	30646000	C	646	928	129	Kaufman	8	Trinity	4e3					NTMWD System								0	27	56	73	65	77	Current Kaufman (NTMWD) customer. See NTMWD costs.
	Terrell			30887000	C	887	599	129	Kaufman	8	Trinity	4o					Water Treatment Plant Expansion in 2010	$2,813,000	$0	$446	$446	$446	$82	$82	0	0	0	0	0	0	Water Treatment Plant Expansion in 2010.
	Terrell			30887000	C	887	599	129	Kaufman	8	Trinity	4o					Water Treatment Plant Expansion in 2020	$2,813,000	$0	$0	$446	$446	$446	$82	0	0	0	0	0	0	Water Treatment Plant Expansion in 2020.
	Terrell			30887000	C	887	599	129	Kaufman	8	Trinity	4o					Water Treatment Plant Expans ion in 2050	$2,813,000	$0	$0	$0	$0	$0	$446	0	0	0	0	0	0	Water Treatment Plant Expansion in 2050.
North Texas Municipal Water District	County -Other		160	30996129	C	996	757	129	Kaufman	5	Sabine	4e3					NTMWD System								0	17	53	88	89	109	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	County -Other		160	30996129	C	996	757	129	Kaufman	8	Trinity	4e3					NTMWD System								0	759	2,038	3,031	2,815	3,394	Current NTMWD customer. See NTMWD costs.
	County -Other			30996129	C	996	757	129	Kaufman	8	Trinity	4c					Lake Terrell	$0	$489	$489	$489	$489	$489	$489	0	60	155	230	295	330	Terrell (Lake Terrell). Infrastucture is in place.
North Texas Municipal Water District	Manufacturing		160	31001129	C	1001	1001	129	Kaufman	8	Trinity	4e3					NTMWD System								0	30	86	121	115	153	Current NTMWD customer. See NTMWD costs.
	Manufacturing			31001129	C	1001	1001	129	Kaufman	8	Trinity	4c					Lake Terrell	$0	$489	$489	$489	$489	$489	$489	0	5	30	45	65	75	Terrell (Lake Terrell). Infrastucture is in place.
	Steam Electric Power			31002129	C	1002	1002	129	Kaufman	8	Trinity	4b					Garland Reuse	$18,497,000	$267	$267	$267	$189	$189	$189	15,694	15,694	15,694	15,694	15,694	15,694	Indirect Reuse from Garland (14 MGD)
	Mining			31003129	C	1003	1003	129	Kaufman	8	Trinity	4c	C	129	8	12929	Woodbine Aquifer	$163,000	$630	$493	$493	$0	$0	$0	21	0	0	0	0	0	Add new well & overdraft Woodbine Aquifer in 2000
Tarrant Regional Water District	Mining		190	31003129	C	1003	1003	129	Kaufman	8	Trinity	4e2					TRWD System								0	79	74	105	97	135	New TRWD customer. See TRWD costs.
	Irrigation			31004129	C	1004	1004	129	Kaufman	8	Trinity	4c	C		8	129996	Irrigation Local Supply	$0	$163	$163	$163	$163	$163	$163	397	377	357	338	319	301	Additional Irrigation Local Supply. Assumed unit cost of water.
Navarro County																															
	Corsicana			30207000	C	207	137	175	Navarro	8	Trinity	4c	C		8	086E0	Pipeline from Cedar Creek/Richland-Chambers System	$12,875,000	$0	$0	$0	$94	$94	$94	0	0	0	13,650	13,650	13,650	Install pipeline from Richland-Chambers Reservoir to Corsicana after 2030
	Corsicana			30207000	C	207	137	175	Navarro	8	Trinity	4o	C		8		Water Treatment Plant	$2,813,000	$0	$0	$446	$446	$446	$82	0	0	0	0	0	0	Water treatment plant expansion in 2020

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																	Plant Expansion in 2020														
	Corsicana			30207000	C	207	137	175	Navarro	8	Trinity	4o	C		8		Water Treatment Plant Expansion in 2040	$2,813,000	$0	$0	$0	$0	$446	$446	0	0	0	0	0	0	Water treatment plant expansion in 2040
	Mining			31003175	C	1003	1003	175	Navarro	8	Trinity	4c	C	175	8	17510	Carrizo-Wilcox Aquifer	$44,000	$0	$0	$49	$49	$49	$19	0	0	50	50	50	50	Add new well in Carrizo-Wilcox Aquifer
	Mining			31003175	C	1003	1003	175	Navarro	8	Trinity	4c	C	175	8	17520	Nacatoch Aquifer	$32,000	$0	$0	$72	$72	$72	$29	0	0	50	50	50	50	Add new well in Nacatoch Aquifer
Parker County																															
	Aledo			30009000	C	9	674	184	Parker	8	Trinity	4c	C	184	8	18428	Trinity Aquifer	$0	$48	$0	$0	$0	$0	$0	17	0	0	0	0	0	Overdraft aquifer. Current well can pump additional water.
Tarrant Regional Water District	Aledo		190	30009000	C	9	674	184	Parker	8	Trinity	4e2					TRWD System								0	394	594	1,058	938	1,059	New TRWD (Weatherford) customer. See TRWD costs.
	Annetta			30030000	C	30	814	184	Parker	8	Trinity	4c	C	184	8	18428	Trinity Aquifer	$374,000	$239	$239	$140	$0	$0	$0	18	0	0	0	0	0	Add new well & overdraft other aquifer in 2000.
Tarrant Regional Water District	Annetta		190	30030000	C	30	814	184	Parker	8	Trinity	4e2					TRWD System								0	250	364	638	703	1,157	New TRWD (Weatherford) customer. See TRWD and Weatherford costs.
Tarrant Regional Water District	Azle	P	190	30046000	C	46	31	184	Parker	8	Trinity	4e2					TRWD System								0	51	37	87	106	159	Current TRWD customer. Additional supply from TRWD. See TRWD costs.
Tarrant Regional Water District	Briar	P	190	30110000	C	110	682	184	Parker	8	Trinity	4e2					TRWD System								0	15	11	26	33	52	Current Community WSC (TRWD) customer. Additional supply from Community WSC (TRWD). See TRWD costs.
	Hudson Oaks			30422000	C	422	883	184	Parker	8	Trinity	4c	C	184	8	18428	Trinity Aquifer	$0	$44	$0	$0	$0	$0	$0	39	0	0	0	0	0	Overdraft Trinity Aquifer in 2000 (existing wells)
Tarrant Regional Water District	Hudson Oaks		190	30422000	C	422	883	184	Parker	8	Trinity	4e2					TRWD System								0	731	1,401	2,848	2,108	2,379	New TRWD customer. See TRWD costs.
Tarrant Regional Water District	Reno		190	30744000	C	744	739	184	Parker	8	Trinity	4e2					TRWD System								0	31	34	87	114	161	Current Springtown (TRWD) customer. Additional supply from Springtown (TRWD). See TRWD costs.
Tarrant Regional Water District	Springtown		190	30853000	C	853	574	184	Parker	8	Trinity	4e2					TRWD System								0	72	58	138	178	266	Current TRWD customer. Additional supply from TRWD. See TRWD costs.
	Springtown			30853000	C	853	574	184	Parker	8	Trinity	4o					Water Treatment Plant Expansion in 2010	$2,813,000	$0	$446	$446	$446	$82	$82	0	0	0	0	0	0	Water Treatment Plant Expansion in 2010
	Springtown			30853000	C	853	574	184	Parker	8	Trinity	4o					Water Treatment Plant Expansion in 2030	$2,813,000	$0	$0	$0	$446	$446	$446	0	0	0	0	0	0	Water Treatment Plant Expansion in 2030
	Weatherford			30944000	C	944	634	184	Parker	8	Trinity	4c	C		8	08050	Lake Weatherford	$0	$0	$0	$0	$0	$0	$0	1,972	0	0	0	0	0	Overdraft Lake Weatherford in 2000

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Tarrant Regional Water District	Weatherford		190	30944000	C	944	634	184	Parker	8	Trinity	4e2					TRWD System								0	7,701	7,500	11,894	12,609	19,938	Current TRWD customer. See TRWD costs.
	Weatherford			30944000	C	944	634	184	Parker	12	Brazos	4c	C		8	08050	Lake Weatherford	$0	$0	$0	$0	$0	$0	$0	93	0	0	0	0	0	Overdraft Lake Weatherford in 2000
Tarrant Regional Water District	Weatherford		190	30944000	C	944	634	184	Parker	12	Brazos	4e2					TRWD System								0	381	378	611	652	1,040	Current TRWD customer. See TRWD costs.
	Weatherford			30944000	C	944	634	184	Parker	8	Trinity	4o					Pipeline from Lake Benbrook	$9,000,000	$0	$343	$343	$343	$295	$295	0	0	0	0	0	0	Pipeline from Lake Benbrook
	Weatherford			30944000	C	944	634	184	Parker	8	Trinity	4o					Second Pipeline from Lake Benbrook	$13,375,000	$0	$0	$0	$357	$357	$357	0	0	0	0	0	0	Parallel Pipeline from Lake Benbrook
	Weatherford			30944000	C	944	634	184	Parker	8	Trinity	4o					Treated Water Transmission Lines to Southeast Parker County Phase I	$3,582,000	$0	$583	$583	$583	$522	$522	0	0	0	0	0	0	Treated water transmission lines to Southest Parker County Phase I
	Weatherford			30944000	C	944	634	184	Parker	8	Trinity	4o					Treated Water Transmission Lines to Southeast Parker County Phase II	$3,582,000	$0	$0	$0	$583	$583	$583	0	0	0	0	0	0	Treated water transmission lines to Southest Parker County Phase II
	Weatherford			30944000	C	944	634	184	Parker	8	Trinity	4o					Water Treatment Plant Expansion	$27,221,000	$0	$0	$0	$368	$368	$368	0	0	0	0	0	0	Water Treatment Plant Expansion
	Willow Park			30973000	C	973	756	184	Parker	8	Trinity	4c	C	184	8	18428	Trinity Aquifer	$0	$48	$0	$0	$0	$0	$0	36	0	0	0	0	0	Overdraft Trinity Aquifer in 2000. Existing wells can meet demands.
Tarrant Regional Water District	Willow Park		190	30973000	C	973	756	184	Parker	8	Trinity	4e2					TRWD System								0	787	1,188	2,110	2,319	3,813	New TRWD (Weatherford) customer. See Weatherford and TRWD costs.
	County -Other			30996184	C	996	757	184	Parker	8	Trinity	4c	C	184	8	18428	Trinity Aquifer	$3,737,000	$239	$239	$169	$0	$0	$0	616	0	0	0	0	0	Add new well & overdraft Trinity Aquifer through 2010.
Tarrant Regional Water District	County -Other		190	30996184	C	996	757	184	Parker	8	Trinity	4e2					TRWD System								0	4,295	2,794	4,425	2,621	1,041	Increase supply from Weatherford (TRWD). See Weatherford and TRWD costs.
	County -Other			30996184	C	996	757	184	Parker	12	Brazos	4c	C	184	12	18428	Trinity Aquifer	$935,000	$239	$239	$169	$0	$0	$0	272	0	0	0	0	0	Add new well & overdraft Trinity Aquifer through 2010.
Tarrant Regional Water District	County -Other		190	30996184	C	996	757	184	Parker	12	Brazos	4e2					TRWD System								0	2,155	1,399	2,191	1,093	0	Increase supply from Weatherford (TRWD). See Weatherford and TRWD costs.
Tarrant Regional Water District	Manufacturing		190	31001184	C	1001	1001	184	Parker	8	Trinity	4j					TRWD System								0	46	94	175	183	259	Surface water from Weatherford (TRWD). See TRWD costs.
	Manufacturing			31001184	C	1001	1001	184	Parker	12	Brazos	4c	C	184	12	18428	Trinity Aquifer	$49,000	$68	$68	$44	$0	$0	$0	21	0	0	0	0	0	Add new well & overdraft Trinity Aquifer through 2010.
Tarrant Regional Water District	Manufacturing		190	31001184	C	1001	1001	184	Parker	12	Brazos	4e2					TRWD System								0	85	74	111	107	142	New TRWD (thru Weatherford) customer. See TRWD and Weatherford cost.
	Steam Electric Power			31002184	C	1002	1002	184	Parker	8	Trinity	4b					Weatherford Reuse	$1,947,000	$0	$232	$232	$232	$185	$185	0	3,000	3,000	3,000	3,000	3,000	Weatherford indirect reuse (pipeline from Benrbook)
	Steam Electric Power			31002184	C	1002	1002	184	Parker	8	Trinity	4b					Weatherford Reuse	$1,947,000	$0	$0	$0	$232	$232	$232	0	0	0	3,000	3,000	3,000	Weatherford reuse (parallel pipeline from Benrbook)

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Tarrant Regional Water District	Steam Electric Power		190	31002184	C	1002	1002	184	Parker	8	Trinity	4j					Pipeline from Lake Benbrook	$5,821,000	$0	$423	$423	$423	$282	$282	0	3,000	3,000	3,000	3,000	3,000	TRWD (pipeline from Benbrook)
Tarrant Regional Water District	Steam Electric Power		190	31002184	C	1002	1002	184	Parker	8	Trinity	4j					Pipeline from Lake Benbrook	$5,821,000	$0	$0	$0	$423	$423	$423	0	0	0	3,000	3,000	3,000	TRWD(pipeline from Benbrook)
	Mining			31003184	C	1003	1003	184	Parker	8	Trinity	4c	C	184	8	18428	Trinity Aquifer	$49,000	$101	$0	$0	$0	$0	$0	15	0	0	0	0	0	Add new well & overdraft Trinity Aquifer in 2000.
	Mining			31003184	C	1003	1003	184	Parker	8	Trinity	4c	C	184	8	18428	Trinity Aquifer	$0	$0	$101	$101	$57	$57	$57	0	15	15	25	30	30	Reallocate Trinity Aquifer (new well)
Tarrant Regional Water District	Mining		190	31003184	C	1003	1003	184	Parker	8	Trinity	4e2					TRWD System								0	31	23	43	34	41	New TRWD customer. See TRWD costs.
	Mining			31003184	C	1003	1003	184	Parker	8	Trinity	4o	C		8	08999	Other Local Supply	$0	$200	$200	$200	$200	$200	$200	13	15	20	30	30	40	Add diversions from Other Local Supply.
	Mining			31003184	C	1003	1003	184	Parker	12	Brazos	4c	C		12	12999	Other Local Supply	$0	$200	$200	$200	$200	$200	$200	1,526	1,730	2,020	2,305	2,625	2,990	Increase diversions from Other local Supply.
Rockwall County																															
Dallas	Dallas	P	206800	30227000	C	227	151	199	Rockwall	8	Trinity	4e1					Dallas System								3	7	2	0	0	2	Current DWU customer. See DWU costs.
North Texas Municipal Water District	Heath		160	30388000	C	388	702	199	Rockwall	8	Trinity	4e3					NTMWD System								0	239	653	1,119	1,248	1,894	Current RCH WSC (thru Rockwall from NTMWD) customer. See NTMWD costs.
North Texas Municipal Water District	Rockwall		160	30766000	C	766	513	199	Rockwall	8	Trinity	4e3					NTMWD System								0	2,008	5,941	9,840	10,822	15,414	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Rowlett	P	160	30777000	C	777	521	199	Rockwall	8	Trinity	4e3					NTMWD System								0	549	1,515	2,655	3,062	4,809	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Royse City	P	160	30779000	C	779	522	199	Rockwall	5	Sabine	4e3					NTMWD System								0	345	945	2,612	2,673	3,637	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	Wylie	P	160	30991000	C	991	669	199	Rockwall	8	Trinity	4e3					NTMWD System								0	3	4	7	6	9	Current NTMWD customer. See NTMWD costs.
North Texas Municipal Water District	County -Other		160	30996199	C	996	757	199	Rockwall	5	Sabine	4e3					NTMWD System								0	0	0	0	59	276	Increase supply from NTMWD. See NTMWD costs.
North Texas Municipal Water District	County -Other		160	30996199	C	996	757	199	Rockwall	8	Trinity	4e3					NTMWD System								0	0	0	0	0	324	Increase supply from NTMWD. See NTMWD costs.
North Texas Municipal Water District	Manufacturing		160	31001199	C	1001	1001	199	Rockwall	8	Trinity	4e3					NTMWD System								0	2	4	3	2	4	Increase supply from NTMWD. See NTMWD costs.
North Texas Municipal Water District	Steam Electric Power		160	31002199	C	1002	1002	199	Rockwall	5	Sabine	4b	C	199			Reuse	$4,795,000	$0	$321	$321	$321	$263	$263	0	6,000	6,000	6,000	6,000	6,000	NTMWD indirect reuse
Tarrant County																															
Tarrant Regional Water District	Arlington		190	30037000	C	37	25	220	Tarrant	8	Trinity	4e2					TRWD System								0	9,035	4,320	12,926	15,388	23,474	Current TRWD customer. Increase supply from TRWD. See TRWD costs.
	Arlington			30037000	C	37	25	220	Tarrant	8	Trinity	4o					Water Treatment Plant	$25,665,000	$0	$215	$215	$215	$82	$82	0	0	0	0	0	0	Water Treatment Plant Expansion

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																	Expansion by 2010														
Tarrant Regional Water District	Azle	P	190	30046000	C	46	31	220	Tarrant	8	Trinity	4e2					TRWD System								0	268	213	480	597	916	Current TRWD customer. Increase supply from TRWD. See TRWD costs.
Trinity River Authority	Bedford		171	30067000	C	67	44	220	Tarrant	8	Trinity	4e2					TRA System								0	1,439	1,355	2,164	2,925	3,515	Current TRA customer. See TRA costs.
	Benbrook			30075000	C	75	51	220	Tarrant	8	Trinity	4o					Water Treatment Plant Expansion by 2020	$2,813,000	$0	$0	$446	$446	$446	$82	0	0	0	0	0	0	Water Treatment Plant Expansion in 2020
	Benbrook			30075000	C	75	51	220	Tarrant	8	Trinity	4o					Water Treatment Plant Expansion by 2040	$1,406,000	$0	$0	$0	$0	$446	$446	0	0	0	0	0	0	Water Treatment Plant Expansion in 2040
Tarrant Regional Water District	Blue Mound		190	30093000	C	93	62	220	Tarrant	8	Trinity	4e2					TRWD System								0	38	19	55	67	97	Current Tecon (TRWD) customer. Increase supply from TRWD. See TRWD costs.
Tarrant Regional Water District	Briar	P	190	30110000	C	110	682	220	Tarrant	8	Trinity	4e2					TRWD System								0	90	67	141	169	258	Current Community WSC (TRWD) customer. Additional supply from Community WSC (TRWD). See TRWD costs.
Fort Worth	Burleson		298900	30131000	C	131	87	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Burleson		298900	30131000	C	131	87	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	51	786	906	673	764	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Trinity River Authority	Colleyville		171	30186000	C	186	125	220	Tarrant	8	Trinity	4e2					TRA System								0	7,039	8,118	8,470	8,997	9,384	Current TRA customer. See TRA costs.
Fort Worth	Crowley		298900	30218000	C	218	145	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Crowley		298900	30218000	C	218	145	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	141	2,240	2,775	2,312	2,958	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	Dalworthington Gard.		298900	30228000	C	228	692	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract
Fort Worth	Dalworthington Gard.		298900	30228000	C	228	692	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	102	1,474	1,691	1,370	1,704	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	Edgecliff		298900	30267000	C	267	180	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Edgecliff		298900	30267000	C	267	180	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	72	890	939	677	750	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Trinity River Authority	Euless		171	30285000	C	285	193	220	Tarrant	8	Trinity	4e2					TRA System								0	5,663	7,100	8,323	9,650	11,114	Current TRA customer. See TRA costs.
Fort Worth	Everman		298900	30287000	C	287	194	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Everman		298900	30287000	C	287	194	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	84	1,019	1,045	735	788	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	Forest Hill		298900	30303000	C	303	206	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Forest Hill		298900	30303000	C	303	206	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	207	2,947	3,311	2,355	2,575	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
Tarrant Regional Water District	Fort Worth		190	30311000	C	311	213	220	Tarrant	8	Trinity	4e2					TRWD System								0	15,539	9,344	23,379	28,867	43,914	Current TRWD customer. Increase supply from TRWD. See TRWD costs.
Dallas	Grand Prairie	P	206800	30353000	C	353	245	220	Tarrant	8	Trinity	4e1					Dallas System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew DWU Contract.
Dallas	Grand Prairie	P	206800	30353000	C	353	245	220	Tarrant	8	Trinity	4e1					Dallas System								609	1,957	11,125	9,218	9,098	9,491	Current DWU customer. Additional supply from DWU. See DWU costs.
Fort Worth	Grand Prairie	P	298900	30353000	C	353	245	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	28	561	561	561	561	Current Fort Worth customer. Contract for 561 AF/Y. See Fort Worth and TRWD costs.
Trinity River Authority	Grapevine	P	171	30360000	C	360	249	220	Tarrant	8	Trinity	4e2					TRA System								0	348	320	703	1,067	1,385	Current TRA customer. See TRA costs.
	Grapevine	P		30360000	C	360	249	220	Tarrant	8	Trinity	4b					Direct reuse	$4,003,000	$0	$331	$331	$331	$185	$185	0	1,495	1,490	1,490	1,485	1,485	Direct reuse
Dallas	Grapevine	P	206800	30360000	C	360	249	220	Tarrant	8	Trinity	4e1					Dallas System								0	1,997	1,995	1,994	1,991	1,990	New DWU customer. See DWU costs.
Fort Worth	Haltom City		298900	30375000	C	375	261	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Haltom City		298900	30375000	C	375	261	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	924	10,876	11,628	8,440	9,440	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	Haslet		298900	30384000	C	384	879	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Haslet		298900	30384000	C	384	879	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	31	526	712	554	662	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	Hurst		298900	30428000	C	428	293	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Hurst		298900	30428000	C	428	293	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	844	11,139	11,532	8,439	9,432	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	Keller		298900	30461000	C	461	315	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Keller		298900	30461000	C	461	315	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	15,480	11,524	13,294	9,937	11,411	Current Fort Worth (TRWD) customer. NETCREW. See Fort Worth and TRWD costs.
	Kennedale			30465000	C	465	318	220	Tarrant	8	Trinity	4c	C	220	8	22028	Trinity Aquifer	$1,319,000	$274	$170	$170	$0	$0	$0	1,018	0	0	0	0	0	Add new well & overdraft Trinity Aquifer in 2000.
Fort Worth	Kennedale		298900	30465000	C	465	318	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	2,174	1,635	1,991	1,813	2,358	New Fort Worth customer. See Fort Worth and TRWD costs.
Fort Worth	Kennedale		298900	30465000	C	465	318	220	Tarrant	8	Trinity	4e2					City of Arlington								0	2,174	1,635	1,991	1,813	2,358	New Arlington (thru FW thru TRWD) customer. See Arlington, Fort Worth, and TRWD costs.
Fort Worth	Lake Worth Village		298900	30501000	C	501	341	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Lake Worth Village		298900	30501000	C	501	341	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	95	1,286	1,427	1,057	1,194	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Tarrant Regional Water District	Mansfield	P	190	30559000	C	559	384	220	Tarrant	8	Trinity	4e2					TRWD System								0	826	488	1,675	2,590	4,657	Current TRWD customer. Increase supply from TRWD. See TRWD costs.
	Mansfield	P		30559000	C	559	384	220	Tarrant	8	Trinity	4o					Water Treatment Plant Expansion by 2010	$14,063,000	$0	$264	$264	$264	$82	$82	0	0	0	0	0	0	Water Treatment Plant Expansion by 2010

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
	Mansfield	P		30559000	C	559	384	220	Tarrant	8	Trinity	4o					Water Treatment Plant Expansion by 2040	$15,469,000	$0	$0	$0	$0	$249	$249	0	0	0	0	0	0	Water Treatment Plant Expansion by 2040
Fort Worth	North Richland Hills		298900	30642000	C	642	435	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	North Richland Hills		298900	30642000	C	642	435	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	714	11,466	14,452	12,379	16,090	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Trinity River Authority	North Richland Hills		171	30642000	C	642	435	220	Tarrant	8	Trinity	4e2					TRA System								0	273	113	331	597	727	Current TRA customer. See TRA costs.
	Pantego			30677000	C	677	454	220	Tarrant	8	Trinity	4c	C	220	8	22028	Trinity Aquifer	$0	$82	$0	$0	$0	$0	$0	400	0	0	0	0	0	Overdraft aquifer in 2000. Current wells system can pump additional supply needed.
Fort Worth	Pantego		298900	30677000	C	677	454	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	517	342	357	257	291	New Fort Worth customer. See Fort Worth and TRWD costs.
Fort Worth	Pantego		298900	30677000	C	677	454	220	Tarrant	8	Trinity	4e2					City of Arlington								0	517	342	357	257	291	New Arlington (thru FW thru TRWD) customer. See Arlington, Fort Worth, and TRWD costs.
	Pelican Bay			30688000	C	688	795	220	Tarrant	8	Trinity	4c	C	220	8	22028	Trinity Aquifer	$655,000	$299	$0	$0	$0	$0	$0	167	0	0	0	0	0	Add new well & overdraft Trinity Aquifer in 2000
	Pelican Bay			30688000	C	688	795	220	Tarrant	8	Trinity	4c	C	220	8	22028	Trinity Aquifer		$0	$299	$299	$102	$102	$102	0	215	240	240	240	240	Reallocate Trinity Aquifer (2010-2050) (new well)
	Pelican Bay			30688000	C	688	795	220	Tarrant	8	Trinity	4c	C	220	8	22028	Trinity Aquifer	$0	$0	$0	$0	$82	$82	$82	0	0	35	85	120	160	Reallocate Trinity Aquifer (existing wells)
Fort Worth	Richland Hills		298900	30748000	C	748	499	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Richland Hills		298900	30748000	C	748	499	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	166	2,505	2,992	2,661	3,634	Current Fort Worth (TRWD) custom er. See Fort Worth and TRWD costs.
Tarrant Regional Water District	River Oaks		190	30756000	C	756	505	220	Tarrant	8	Trinity	4e2					TRWD System								0	146	79	160	185	266	Current TRWD customer. Increase supply from TRWD. See TRWD costs.
Fort Worth	Saginaw		298900	30785000	C	785	527	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Saginaw		298900	30785000	C	785	527	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	348	4,796	5,317	4,213	5,095	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	Sansom Park Village		298900	30802000	C	802	539	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Sansom Park Village		298900	30802000	C	802	539	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	72	827	872	626	693	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	Southlake	P	298900	30846000	C	846	570	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Southlake	P	298900	30846000	C	846	570	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	19,082	14,425	18,618	16,454	22,270	Current Fort Worth (TRWD) customer. NETCREW. See Fort Worth and TRWD costs.
Fort Worth	Watauga		298900	30942000	C	942	632	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Watauga		298900	30942000	C	942	632	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	517	7,003	7,889	6,102	6,741	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	Westworth Village		298900	30959000	C	959	644	220	Tarrant	8	Trinity	4e2					Fort Worth	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.

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Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
																	System														
Fort Worth	Westworth Village		298900	30959000	C	959	644	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	46	504	521	369	401	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	White Settlement		298900	30964000	C	964	651	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	White Settlement		298900	30964000	C	964	651	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	281	3,219	3,367	2,441	2,678	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	County -Other		298900	30996220	C	996	757	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	County -Other		298900	30996220	C	996	757	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	0	8,130	15,018	22,965	24,407	Current Fort Worth (TRWD) customer. NETCREW. See Fort Worth and TRWD costs.
Trinity River Authority	County -Other		171	30996220	C	996	757	220	Tarrant	8	Trinity	4b	C		8		TRA Reuse	$1,326,000	$0	$232	$232	$232	$194	$194	0	1,000	2,000	2,500	2,500	2,500	TRA Indirect Reuse (Denton Creek Plant)
Fort Worth	County -Other		298900	30996220	C	996	757	220	Tarrant	8	Trinity	4e2					Northeast Tarrant County Regional Water System	$9,824,000	$0	$508	$508	$508	$492	$492	0	0	0	0	0	0	Northeast Tarrant County Regional Water System (from Fort Worth to Keller, Roanoke, Southlake, Trophy Club, Westlake/Lake Turner MUDs).
Tarrant Regional Water District	Manufacturing		190	31001220	C	1001	1001	220	Tarrant	8	Trinity	4e2					TRWD System								0	3,300	2,377	7,628	10,108	16,980	Current TRWD customer. See TRWD costs.
Fort Worth	Manufacturing		298900	31001220	C	1001	1001	220	Tarrant	8	Trinity	4e2					Fort Worth System	$0	$0	$0	$0	$0	$0	$0	0	0	0	0	0	0	Renew Fort Worth contract.
Fort Worth	Manufacturing		298900	31001220	C	1001	1001	220	Tarrant	8	Trinity	4e2					Fort Worth System								0	1,479	811	2,796	4,056	7,297	Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Tarrant Regional Water District	Steam Electric Power		190	31002220	C	1002	1002	220	Tarrant	8	Trinity	4e2					TRWD System								0	1,025	661	1,663	2,316	3,393	Current TRWD customer. Increase supply from TRWD. See TRWD costs.
Fort Worth	Steam Electric Power		298900	31002220	C	1002	1002	220	Tarrant	8	Trinity	4b					Fort Worth Reuse	$2,909,000	$0	$344	$344	$344	$262	$262	0	500	500	1,100	2,000	2,600	Fort Worth direct reuse. See Fort Worth costs abov e.
Wise County																															
	Alvord			30019000	C	19	810	249	Wise	8	Trinity	4c	C	249	8	24928	Trinity Aquifer	$177,000	$224	$0	$0	$0	$0	$0	14	0	0	0	0	0	Add new well & overdraft Trinity Aquifer in 2000
	Alvord			30019000	C	19	810	249	Wise	8	Trinity	4c	C	249	8	24928	Trinity Aquifer		$0	$224	$224	$64	$64	$64	0	20	20	40	50	80	Reallocate Trinity Aquifer (new well)
Tarrant Regional Water District	Alvord		190	30019000	C	19	810	249	Wise	8	Trinity	4e2					TRWD System								0	28	19	63	54	73	New TRWD customer. See TRWD costs.
	Aurora			30044000	C	44	816	249	Wise	8	Trinity	4c	C	249	8	24928	Trinity Aquifer	$177,000	$224	$160	$160	$0	$0	$0	32	0	0	0	0	0	Add new well & overdraft Trinity aquifer thru 2000.
Tarrant Regional Water District	Aurora		190	30044000	C	44	816	249	Wise	8	Trinity	4e2					TRWD System								0	278	230	283	202	231	New Walnut Creek SUD (TRWD) customer. See TRWD costs.
	Boyd			30103000	C	103	760	249	Wise	8	Trinity	4c	C	249	8	24928	Trinity Aquifer	$0	$44	$0	$0	$0	$0	$0	58	0	0	0	0	0	Overdraft Trinity Aquifer in 2000. Existing wells can meet this demand.
Tarrant Regional Water District	Boyd		190	30103000	C	103	760	249	Wise	8	Trinity	4e2					TRWD System								0	571	500	637	449	500	New Walnut Creek SUD (TRWD) customer. See TRWD costs.

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	Water User Group Name	P	Major Water Provider (TWDB Alpha Number)	Water User Group Identifier	Regional Water Planning Group Letter	Sequence Number for Water User Group	City Number for Water User Group	County Number for Water User Group	County Name	Basin Number for Water User Group	Basin Name	Type of Water Supply	Regional Water Planning Group of Source	County Number of Source	Basin Number of Source	Specific Source Identifier	Name of Specific Source	Total Capital Cost	Cost for 2000 (Total Annual Cost per Acre-Foot)	Cost for 2010 (Total Annual Cost per Acre-Foot)	Cost for 2020 (Total Annual Cost per Acre-Foot))	Cost for 2030 (Total Annual Cost per Acre-Foot)	Cost for 2040 (Total Annual Cost per Acre-Foot)	Cost for 2050 (Total Annual Cost per Acre-Foot)	Year 2000 Value of Total Supply from Strategy	Year 2010 Value of Total Supply from Strategy	Year 2020 Value of Total Supply from Strategy	Year 2030 Value of Total Supply from Strategy	Year 2040 Value of Total Supply from Strategy	Year 2050 Value of Total Supply from Strategy	Comments/Strategies
Tarrant Regional Water District	Briar	P	190	30110000	C	110	682	249	Wise	8	Trinity	4e2					TRWD System								0	23	16	35	41	58	Current Community WSC (TRWD) customer. Additional supply from Community WSC (TRWD). See TRWD costs.
Tarrant Regional Water District	Bridgeport		190	30113000	C	113	76	249	Wise	8	Trinity	4e2					TRWD System								0	105	64	177	228	360	Current TRWD customer. Increase supply from TRWD. See TRWD costs.
	Bridgeport			30113000	C	113	76	249	Wise	8	Trinity	4o					Water Treatment Plant Expansion in 2000	$2,813,000	$446	$446	$446	$82	$82	$82	0	0	0	0	0	0	Water treatment plant expansion in 2000
	Bridgeport			30113000	C	113	76	249	Wise	8	Trinity	4o					Water Treatment Plant Expansion in 2030	$2,813,000	$0	$0	$0	$446	$446	$446	0	0	0	0	0	0	Water treatment plant expansion in 2030
Tarrant Regional Water District	Chico		190	30163000	C	163	842	249	Wise	8	Trinity	4e2					TRWD System								0	3	32	41	34	41	Current West Wise WSC (TRWD) customer. Increase supply from TRWD. See TRWD costs.
Tarrant Regional Water District	Decatur		190	30235000	C	235	153	249	Wise	8	Trinity	4e2					TRWD System								0	151	85	230	272	400	Current Wise County WSC (TRWD) customer. Increase supply from TRWD. See TRWD costs.
	Decatur			30235000	C	235	153	249	Wise	8	Trinity	4o					Water Treatment Plant Expansion in 2010	$2,813,000	$0	$446	$446	$446	$82	$82	0	0	0	0	0	0	Water treatment plant expansion in 2010
	Decatur			30235000	C	235	153	249	Wise	8	Trinity	4o					Water Treatment Plant Expansion in 2050	$2,813,000	$0	$0	$0	$0	$0	$446	0	0	0	0	0	0	Water treatment plant expansion in 2050
	Newark			30635000	C	635	920	249	Wise	8	Trinity	4c	C	249	8	24928	Trinity Aquifer	$190,000	$141	$86	$86	$0	$0	$0	44	0	0	0	0	0	Add new well & overdraft Trinity Aquifer in 2000.
Tarrant Regional Water District	Newark		190	30635000	C	635	920	249	Wise	8	Trinity	4e2					TRWD System								0	358	293	354	280	343	New Walnut Creek SUD (TRWD) customer. See TRWD costs.
	Rhome			30745000	C	745	946	249	Wise	8	Trinity	4c	C	249	8	24928	Trinity Aquifer	$0	$44	$0	$0	$0	$0	$0	33	0	0	0	0	0	Overdraft Trinity Aquifer in 2000. Existing wells can meet this demand.
Tarrant Regional Water District	Rhome		190	30745000	C	745	946	249	Wise	8	Trinity	4e2					TRWD System								0	301	225	285	232	285	New Walnut Creek SUD (TRWD) customer. See TRWD costs.
Tarrant Regional Water District	County -Other		190	30996249	C	996	757	249	Wise	8	Trinity	4e2					TRWD System								0	1,794	2,835	5,438	5,116	6,443	Current TRWD customer. Increase supply from TRWD. See TRWD costs.
	County -Other			30996249	C	996	757	249	Wise	8	Trinity	4c	D		3		UTRWD (Chapman)								0	221	109	146	156	200	UTRWD (Lake Chapman). See UTRWD costs.
	County -Other			30996249	C	996	757	249	Wise	8	Trinity	4b	D		3		UTRWD (Reuse)								0	70	108	146	155	199	UTRWD (Reuse). See UTRWD costs.
	County -Other			30996249	C	996	757	249	Wise	8	Trinity	4o					Water Treatment Plant Expansion in 2000	$2,813,000	$446	$446	$446	$82	$82	$82	0	0	0	0	0	0	Water treatment plant expansion in 2000 Community WSC

A	B		C	D	E	F	G	H		I		J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	
Major Water Provider Name (If Applicable)	**Water User Group Name**	P	**Major Water Provider (TWDB Alpha Number)**	**Water User Group Identifier**	**Regional Water Planning Group Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Type of Water Supply**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Cost for 2000 (Total Annual Cost per Acre-Foot)**	**Cost for 2010 (Total Annual Cost per Acre-Foot)**	**Cost for 2020 (Total Annual Cost per Acre-Foot))**	**Cost for 2030 (Total Annual Cost per Acre-Foot)**	**Cost for 2040 (Total Annual Cost per Acre-Foot)**	**Cost for 2050 (Total Annual Cost per Acre-Foot)**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	Comments/Strategies
	County -Other			30996249	C	996	757	249	Wise	8	Trinity	4o					Water Treatment Plant Expansion in 2020	$2,813,000	$0	$0	$446	$446	$446	$82	0	0	0	0	0	0	Water treatment plant expansion in 2020 Community WSC
	County -Other			30996249	C	996	757	249	Wise	8	Trinity	4o					Water Treatment Plant Expansion in 2010	$14,977,000	$0	$277	$277	$277	$81	$82	0	0	0	0	0	0	Water treatment plant expansion in 2010 Walnut Creek SUD
	County -Other			30996249	C	996	757	249	Wise	8	Trinity	4o					Water Treatment Plant Expansion in 2020	$4,993,000	$0	$0	$404	$404	$404	$81	0	0	0	0	0	0	Water treatment plant expansion in 2020 Walnut Creek SUD
	County -Other			30996249	C	996	757	249	Wise	8	Trinity	4o					Water Treatment Plant Expansion in 2030	$4,993,000	$0	$0	$0	$404	$404	$404	0	0	0	0	0	0	Water treatment plant expansion in 2030 Walnut Creek SUD
	County -Other			30996249	C	996	757	249	Wise	8	Trinity	4o					Water Treatment Plant Expansion in 2040	$4,993,000	$0	$0	$0	$0	$404	$404	0	0	0	0	0	0	Water treatment plant expansion in 2040 Walnut Creek SUD
	County -Other			30996249	C	996	757	249	Wise	8	Trinity	4o					Water Treatment Plant Expansion in 2050	$4,993,000	$0	$0	$0	$0	$0	$404	0	0	0	0	0	0	Water treatment plant expansion in 2050 Walnut Creek SUD
Tarrant Regional Water District	Steam Electric Power		190	31002249	C	1002	1002	249	Wise	8	Trinity	4e2					TRWD System	$7,918,000	$0	$475	$475	$0	$0	$0	0	4,256	4,256	0	0	0	TRWD contract for 4,256 AF/Y with Duke
Tarrant Regional Water District	Steam Electric Power		190	31002249	C	1002	1002	249	Wise	8	Trinity	4e2					TRWD System		$0	$0	$0	$475	$340	$340	0	0	0	4,256	4,256	4,256	Renew Duke Contract with TRWD
Tarrant Regional Water District	Steam Electric Power		190	31002249	C	1002	1002	249	Wise	8	Trinity	4e2					TRWD System	$7,027,000	$0	$484	$484	$0	$0	$0	0	3,548	3,548	0	0	0	TRWD contract for 3,548 AF/Y with Tractebel
Tarrant Regional Water District	Steam Electric Power		190	31002249	C	1002	1002	249	Wise	8	Trinity	4e2					TRWD System		$0	$0	$0	$484	$259	$259	0	0	0	3,548	3,548	3,548	Renew Tractebel Contract with TRWD
Tarrant Regional Water District	Steam Electric Power		190	31002249	C	1002	1002	249	Wise	8	Trinity	4e2					TRWD System	$6,793,000	$0	$485	$485	$485	$340	$340	0	3,396	3,396	3,396	3,396	3,396	Possible additional supply from TRWD

Notes:

Titles in **BOLD** are the columns required by TWDB

* UTRWD's present contract with DWU is limited to a total of 10 MGD to UTRWD for cities not specifically named in the contract. DWU has made no commitment for future service to cities not specifically named in the contract, and future serve will require future city council action.

APPENDIX T

TEXAS WATER DEVELOPMENT BOARD TABLE 12
RECOMMENDED MANAGEMENT STRATEGIES BY CITY AND CATEGORY

APPENDIX T
TEXAS WATER DEVELOPMENT BOARD TABLE 12
RECOMMENDED MANAGEMENT STRATEGIES BY CITY AND CATEGORY

Introduction

One of the tables the Texas Water Development Board requires in the development of regional water plans is TWDB Table 12, which shows the recommended strategies for meeting water shortages for each Water User Group (WUG). TWDB Table 12 only lists water management strategies for those entities needing additional water supplies in the 50 year time period. The TWDB requires that the table include the following information [56]:

A. Water User Group Name
B. Water User Group Identifier Number
C. Regional Water Planning Letter
D. TWDB Sequence Number for Water User Group
E. TWDB City Number
F. County Number (see key before TWDB Table 12)
G. Basin Number (see key before TWDB Table 12)
H. Name of Water Management Strategy
I. Type of Water Supply (see key before TWDB Table 12)
J. Major Water Provider Number (if applicable)
K. Regional Water Planning Group of Source
L. County Number of Source (see key to counties before TWDB Table 12)
M. Basin Number of Source (see key before TWDB Table 12)
N. Specific Source Identifier (see key before TWDB Table 12)
O. Specific Source Name
P. Total Capital Cost (1999 Second Quarter Dollars)
Q-V. Total Supply Available from Each Strategy During the Drought of Record Conditions for the Years 2000-2050
W. Exception from Meeting Needs (Due to (a) no water management strategy being feasible or (b) political subdivision that provides water supply has not participated in the regional water planning effort)

X. Scenario Number for Meeting Long-Term Needs. Leave blank if only one scenario is considered in TWDB Table 11.

TWDB Table 12 shows the amount of water made available by each recommended water management strategy and the associated capital cost for each strategy. The recommended water management strategies are chosen from the feasible options listed in TWDB Table 11.

Key to Texas Water Development Board Codes in TWDB Table 12

Water Planning Groups

The TWDB divided the State of Texas into 16 regions in Senate Bill One (SB1) for the purpose of water planning. The following are the 16 SB1 regions:

A	Panhandle Water Planning Group
B	Region B Water Planning Group
C	Region C Water Planning Group
D	North East Texas Regional Water Planning Group
E	Far West Texas Water Planning Group
F	Region F Water Planning Group
G	Brazos G Water Planning Group
H	Region H Water Planning Group
I	East Texas Water Planning Group
J	Plateau Water Planning Group
K	Lower Colorado Water Planning Group
L	South Central Texas Water Planning Group
M	Rio Grande Water Planning Group
N	Coastal Bend Water Planning Group
O	Llano-Estacado Water Planning Group
P	Lavaca Water Planning Group

County Number Code

The Texas Water Development Board (TWDB) assigned county code numbers to every county in Texas. The following counties are included in Region C:

43	Collin
49	Cooke
57	Dallas
61	Denton
70	Ellis
74	Fannin
81	Freestone
91	Grayson
107	Henderson
119	Jack
129	Kaufman
175	Navarro
184	Parker
199	Rockwall
220	Tarrant
249	Wise

Basin Numbers

The TWDB also assigned numbers to correspond to the various river basins in Texas. The following are the river basins in Region C:

2	Red River Basin
3	Sulphur River Basin
5	Sabine River Basin
6	Neches River Basin
8	Trinity River Basin
12	Brazos River Basin

Type of Water Supply

The TWDB developed a coding system for the various water management strategies. The strategies all begin with the number 4 and are followed by one or more letters matching the description of the management strategy. The Type of Water Supply is defined in the following table:

a	Water conservation and drought response planning including water demand management
b	Reuse of wastewater
c	Expanded use or acquisition of existing supplies including systems optimization and conjunctive use of surface water and groundwater
d	Reallocation of reservoir storage to new uses
e	Voluntary redistribution of water resources including water marketing, regional water banks, sales, leases, options, subordination agreements, and financing agreements
f	Subordination of existing water rights through voluntary agreements
g	Enhancements of yields of existing sources
h	Control of naturally occurring chlorides or other minerals
i	Interbasin transfers
j	New supply development including construction and improvement of surface water resources
k	Water management strategies identified in the state water plan for the regional water planning area
l	Brush control, precipitation enhancement, ands desalinization
m	Water supply that could be made available by cancellation of water rights based on data provided by the TNRCC
n	Aquifer storage and recovery
o	Other measures
p	Renewal of existing contracts

Major Water Provider Numbers

The TWDB assigned identification numbers for all of the entities determined to be Major Water Providers within their regions. The following are the five Major Water Providers in Region C:

160	North Texas Municipal Water District
171	Trinity River Authority
190	Tarrant Regional Water District
206800	Dallas Water Utilities
298900	City of Fort Worth

Specific Source Identifier

The TWDB has developed an encoding theme for the various water supply sources throughout the State. Water supply systems were assigned identification numbers by the TWDB. Reservoirs and reuse projects were also assigned codes based on the number of the river basin in which they are located and the TWDB assigned location along that river or stream. The Irrigation Local Supply code is a combination of the county number and the TWDB code "996". The Livestock Local Supply and Other Local Supply begin with the basin number in which the supply is located followed by the code "997" or "999", respectively. The groundwater supplies are encoded with the county number followed by the aquifer code. The following are the specific source identifiers used in the Region C version of TWDB Table 12:

02220	Hubert H Moss Lake
020C0	Lake Texoma (NTMWD)
02230P	Lake Texoma
02240	Lake Randall
02270	Lake Bonham
02997	Livestock Local Supply (Red Basin)
02999	Other Local Supply (Red Basin)
030C0	Chapman (NTMWD)
03997	Livestock Local Supply (Sulphur Basin)
04328	Trinity Aquifer (Collin County)
04329	Woodbine Aquifer (Collin County)
043996	Irrigation Local Supply (Collin County)
04928	Trinity Aquifer (Cooke County)
049996	Irrigation Local Supply (Cooke County)
05010P	Lake Tawakoni
05722	Other Groundwater (Dallas County)

05728	Trinity Aquifer (Dallas County)
05729	Woodbine Aquifer (Dallas County)
057996	Irrigation Local Supply (Dallas County)
05997	Livestock Local Supply (Sabine Basin)
05999	Other Local Supply (Sabine Basin)
06010	Lake Athens
06122	Other Groundwater (Denton County)
06128	Trinity Aquifer (Denton County)
06129	Woodbine Aquifer (Denton County)
061996	Irrigation Local Supply (Denton County)
07022	Other Groundwater (Ellis County)
07028	Trinity Aquifer (Ellis County)
07029	Woodbine Aquifer (Ellis County)
070996	Irrigation Local Supply (Ellis County)
07422	Other Groundwater (Fannin County)
07428	Trinity Aquifer (Fannin County)
07429	Woodbine Aquifer (Fannin County)
074996	Irrigation Local Supply (Fannin County)
080C0	Lake Lavon/Reuse
08010P	Bridgeport Local Supply
08050	Lake Weatherford
08060	Lake Benbrook
08070	Lake Grapevine
08100P	Lake Ray Roberts
08110	Carrizo-Wilcox Aquifer (Freestone County)
08110P	Lake Lewisville
08120	Lake Arlington
08122	Other Groundwater (Freestone County)
08124	Queen City Aquifer (Freestone County)
08130	Joe Pool Lake
08140	Mountain Creek Lake
08180	Lake Terrell
081996	Irrigation Local Supply (Freestone County)
08200	Lake Waxahachie
08210	Lake Bardwell
08220	Lake Halbert
08230	Navarro Mills Reservoir
08290	Lost Creek/Jacksboro System

08390	Lake Trinidad
08400	Livingston (TXU-Fairfield)
08410	Forest Grove
08420	Lake Fairfield
08640	Lake Clark
086C0	West Fork less Bridgeport Local
086D0	Elm Fork/Lake Grapevine System
08190P	Cedar Creek/Richland-Chambers System
08700	Wortham Lake
08997	Livestock Local Supply
08999	Other Local Supply (Trinity Basin)
09122	Other Groundwater (Grayson County)
09128	Trinity Aquifer (Grayson County)
09129	Woodbine Aquifer (Grayson County)
091996	Irrigation Local Supply (Grayson County)
10710	Carrizo-Wilcox Aquifer Henderson County)
10722	Other Groundwater (Henderson County)
10724	Queen City Aquifer (Henderson County)
107996	Irrigation Local Supply (Henderson County)
11922	Other Groundwater (Jack County)
11928	Trinity Aquifer (Jack County)
119996	Irrigation Local Supply (Jack County)
12150	Possum Kingdom (BRA)
12160	Lake Palo Pinto
12170	Lake Mineral Wells
12860	Teague City Lake
12870	Lake Bryson
12920	Nacatoch Aquifer (Kaufman County)
12922	Other Groundwater (Kaufman County)
12929	Woodbine Aquifer (Kaufman County)
12997	Livestock Local Supply (Kaufman County)
12999	Other Local Supply (Kaufman County)
129996	Irrigation Local Supply (Kaufman County)
17510	Carrizo-Wilcox Aquifer (Navarro County)
17520	Nacatoch Aquifer (Navarro County)
17522	Other Groundwater (Navarro County)
17528	Trinity Aquifer (Navarro County)
17529	Woodbine Aquifer (Navarro County)

175996	Irrigation Local Supply (Navarro County)
18422	Other Groundwater (Parker County)
18428	Trinity Aquifer (Parker County)
18429	Woodbine Aquifer (Parker County)
184996	Irrigation Local Supply (Parker County)
19922	Other Groundwater (Rockwall County)
22022	Other Groundwater (Tarrant County)
22028	Trinity Aquifer (Tarrant County)
22029	Woodbine Aquifer (Tarrant County)
220996	Irrigation Local Supply (Tarrant County)
24922	Other Groundwater (Wise County)
24928	Trinity Aquifer (Wise County)
249996	Irrigation Local Supply (Wise County)
35081	Indirect Reuse
36055	Reuse (Grayson County)
36132	Reuse (Denton County)
36142	Reuse (Kaufman County)
36146	Reuse (Tarrant County)
36147	Reuse (Rockwall County)
36147	Reuse (Tarrant County)
A08195	Trinidad City Lake

TWDB Table 12
Recommended Management Strategies by City and Category

A	B		C	D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
Water User Group Name	**Water User Group Identifier**		**RWPG Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Name of Water Manage-ment Strategy**	**Type of Water Supply**	**Major Water Provider Number (TWDB Alpha Number)**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
Allen	30012000		C	12	8	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	5,412	14,119	20,014	17,732	21,407			Current NTMWD customer.
Blue Ridge	30094000		C	94	829	43	Collin	8	Trinity	Add new wells & overdraft Woodbine Aquifer thru 2010.	4c		C	43	8	04329	Woodbine Aquifer	$260,000	1	0	0	0	0	0			Add new wells & overdraft Woodbine Aquifer thru 2010.
Blue Ridge	30094000		C	94	829	43	Collin	8	Trinity	Reallocate Woodbine Aquifer (new well)	4c		C	43	8	04329	Woodbine Aquifer	$0	0	15	20	25	28	28			Reallocate Woodbine Aquifer (new well)
Celina	30154000		C	154	103	43	Collin	8	Trinity	Overdraft Trinity Aquifer in 2000	4c		C	43	8		Trinity Aquifer		108	0	0	0	0	0			Overdraft Trinity Aquifer in 2000
Celina	30154000		C	154	103	43	Collin	8	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	4c		D		3	03010	UTRWD (Chapman)		0	1,214	1,456	1,210	1,393	1,383			UTRWD (Lake Chapman) new customer. See UTRWD for costs.
Celina	30154000		C	154	103	43	Collin	8	Trinity	Begin purchasing water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	1,200	1,386	1,149	1,322	1,313			UTRWD (reuse) new customer. See UTRWD for costs.
Celina	30154000		C	154	103	43	Collin	8	Trinity	Begin purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	3,303	4,862	6,276			New UTRWD (DWU) customer. See UTRWD and DWU for costs.
Dallas	30227000	P	C	227	151	43	Collin	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		1,128	2,880	1,564	0	0	143			Current DWU customer. See Dallas costs.
Fairview	30291000		C	291	772	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	277	611	888	849	1,155			Current NTMWD customer. See NTMWD costs.
Farmersville	30294000		C	294	199	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	153	396	592	577	764			Current NTMWD customer. See NTMWD costs.

A	B		C	D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
Water User Group Name	**Water User Group Identifier**		**RWPG Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Name of Water Manage-ment Strategy**	**Type of Water Supply**	**Major Water Provider Number (TWDB Alpha Number)**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
Frisco	30319000	P	C	319	221	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	4,738	15,276	29,810	35,934	53,646			Current NTMWD customer. See NTMWD costs.
Garland	30334000	P	C	334	230	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	2	1	3	2	5			Current NTMWD customer. See NTMWD costs.
Lucas	30547000		C	547	718	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	220	472	745	733	984			Current NTMWD customer. See NTMWD costs.
McKinney	30577000		C	577	379	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	7,680	22,145	37,013	39,296	54,674			Current NTMWD customer. See NTMWD costs.
Melissa	30584000		C	584	914	43	Collin	8	Trinity	Continue purchasing water from Norht Collins WSC (NTMWD)	4e3	160					NTMWD System		0	25	57	87	75	91			Current North Collins WSC (NTMWD) customer. See NTMWD costs.
Murphy	30619000		C	619	724	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	438	1,257	1,885	1,824	2,392			Current NTMWD customer.
New Hope	30631000		C	631	923	43	Collin	8	Trinity	Continue purchasing water from North Collins WSC (NTMWD)	4e3	160					NTMWD System		0	20	41	54	48	59			North Collins WSC (NTMWD) customer. See NTMWD costs.
Parker	30679000		C	679	733	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	460	1,649	3,496	4,414	6,827			Current NTMWD customer. See NTMWD costs.
Plano	30704000	P	C	704	472	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	19,534	38,402	48,723	42,240	50,335			Current NTMWD customer. See NTMWD costs.
Princeton	30724000		C	724	487	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	155	433	635	596	742			Current NTMWD customer. See NTMWD costs.
Prosper	30726000		C	726	799	43	Collin	8	Trinity	Overdraft Woodbine Aquifer in 2000	4c		C	43	8	04329	Woodbine Aquifer	$0	188	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000. Existing wells can meet demand.

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Prosper	30726000		C	726	799	43	Collin	8	Trinity	Begin purchasing water from NTMWD	4e3	160					NTMWD System		0	909	1,645	2,386	2,335	3,178			Convert to surface water in 2010. New NTMWD customer. See NTMWD costs.
Prosper	30726000		C	726	799	43	Collin	8	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	4c		D		3	03010	UTRWD (Chapman)		0	921	701	361	410	446			UTRWD (Lake Chapman) new customer. See UTRWD for costs.
Prosper	30726000		C	726	799	43	Collin	8	Trinity	Begin purchasing water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	910	667	343	389	423			UTRWD (reuse) new customer. See UTRWD for costs.
Prosper	30726000		C	726	799	43	Collin	8	Trinity	Begin purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	988	1,431	2,022			New UTRWD (DWU) customer. See UTRWD and DWU for costs.
Richardson	30747000	P	C	747	498	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD Sy stem		0	904	1,956	2,733	2,553	3,280			Current NTMWD customer. See NTMWD costs.
Royse City	30779000	P	C	779	522	43	Collin	5	Sabine	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	22	57	89	89	123			Current NTMWD customer. See NTMWD costs.
Sachse	30784000	P	C	784	742	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	22	53	73	76	102			Current NTMWD customer. See NTMWD costs.
Wylie	30991000	P	C	991	669	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	734	2,079	3,903	4,660	6,936			Current NTMWD customer. See NTMWD costs.
County-Other	30996043		C	996	757	43	Collin	5	Sabine	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	0	510	949	1,058	1,185			Current NTMWD customer. See NTMWD costs.
County-Other	30996043		C	996	757	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	0	9,640	16,475	17,669	19,553			Current NTMWD customer. See NTMWD costs.
Manufacturing	31001043		C	1001	1001	43	Collin	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	572	1,289	1,836	1,828	2,458			Current NTMWD customer. See NTMWD costs.
Steam Electric Power	31002043		C	1002	1002	43	Collin	8	Trinity	NTMWD Reuse	4b	160					NTMWD Reuse	$14,111,000	0	4,000	4,000	4,000	7,200	7,200			NTMWD reuse

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Gainesville	30327000		C	327	225	49	Cooke	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	49	8	04928	Trinity Aquifer	$0	942	0	0	0	0	0			Overdraft Trinity Aquifer (existing wells)
Gainesville	30327000		C	327	225	49	Cooke	8	Trinity	1 MGD pipeline from Moss Lake Phase I	4c		C	49	2	02220	Moss Lake	$2,566,000	561	561	561	561	561	561			1 MGD pipeline from Moss Lake. Raw water cost already being paid separately. Phase I
Gainesville	30327000		C	327	225	49	Cooke	8	Trinity	1 MGD pipeline from Moss Lake Phase II	4c		C	49	2	02220	Moss Lake	$1,371,000	0	561	561	561	561	561			1 MGD pipeline from Moss Lake. Raw water cost already being paid separately. Phase II
Gainesville	30327000		C	327	225	49	Cooke	8	Trinity	Parallel pipeline for Cooke County Water Supply Project	4c		C	49	2	02220	Moss Lake	$26,785,000	0	2,602	2,602	2,602	2,602	2,602			Parallel pipeline for Cooke County Water Supply Project. Gainesville pays raw water cost separately. Gainesville is projected to be the regional supplier in Cooke County, so water supply amounts include water resold to Muncipal and Manufacturing entities through the Cooke County Water Supply Project. Cost for buying raw water is unknown and is not included.
Lindsay	30525000		C	525	899	49	Cooke	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	49	8	04928	Trinity Aquifer	$0	28	0	0	0	0	0			Overdraft Trinity Aquifer (existing wells)

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Lindsay	30525000		C	525	899	49	Cooke	8	Trinity	Cooke County Water Supply Project	4c		C	49	2	02220	Moss Lake		0	97	97	97	97	97			Cooke County Water Supply Project.
Muenster	30615000		C	615	418	49	Cooke	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	49	8	04928	Trinity Aquifer	$0	90	0	0	0	0	0			Overdraft Trinity Aquifer (existing wells)
Muenster	30615000		C	615	418	49	Cooke	8	Trinity	Lake Muenster	4j		C	49	8		Muenster Lake	$11,023,000	0	446	446	446	446	446			The amount shown for this strategy includes water resold to Manufacturing (see below).
Valley View	30923000		C	923	981	49	Cooke	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	49	8	04928	Trinity Aquifer	$0	30	0	0	0	0	0			Overdraft Trinity Aquifer (existing wells)
Valley View	30923000		C	923	981	49	Cooke	8	Trinity	Overdraft Trinity Aquifer in 2000 (new wells)	4c		C	49	8	04928	Trinity Aquifer	$160,000	24	0	0	0	0	0			Overdraft Trinity Aquifer (new well)
Valley View	30923000		C	923	981	49	Cooke	8	Trinity	Reallocate Trinity Aquifer (existing wells)	4c		C	49	8	04928	Trinity Aquifer	$0	0	30	30	0	0	0			Reallocate Trinity Aquifer (existing well)
Valley View	30923000		C	923	981	49	Cooke	8	Trinity	Reallocate Trinity Aquifer (new well)	4c		C	49	8	04928	Trinity Aquifer		0	24	48	0	0	0			Reallocate Trinity Aquifer (new well)
Valley View	30923000		C	923	981	49	Cooke	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3	03010	UTRWD (Chapman)		0	0	0	39	47	57			UTRWD (Lake Chapman). See UTRWD costs.
Valley View	30923000		C	923	981	49	Cooke	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	0	0	39	47	56			UTRWD (reuse). See UTRWD costs.
County-Other	30996049		C	996	757	49	Cooke	2	Red	Overdraft Trinity Aquifer in Red Basin in 2000	4c		C	49	2	04928	Trinity Aquifer	$0	86	0	0	0	0	0			Overdraft Trinity Aquifer in Red Basin (existing wells)

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										(existing wells)																	
County-Other	30996049		C	996	757	49	Cooke	2	Red	Overdraft Trinity Aquifer in Red Basin in 2000 (new wells)	4c		C	49	2	04928	Trinity Aquifer	$318,000	24	0	0	0	0	0			Overdraft Trinity Aquifer in Red Basin (new wells)
County-Other	30996049		C	996	757	49	Cooke	2	Red	Reallocate Trinity Aquifer in Red Basin (existing wells)	4c		C	49	2	04928	Trinity Aquifer	$0	0	86	86	86	86	86			Reallocate Trinity Aquifer in Red Basin (existing well)
County-Other	30996049		C	996	757	49	Cooke	2	Red	Reallocate Trinity Aquifer in Red Basin (new well)	4c		C	49	2	04928	Trinity Aquifer	$0	0	24	24	24	24	24			Reallocate Trinity Aquifer in Red Basin (new well)
County-Other	30996049		C	996	757	49	Cooke	8	Trinity	Overdraft Trinity Aquifer in Trinity Basin in 2000 (existing wells)	4c		C	49	8	04928	Trinity Aquifer	$0	631	0	0	0	0	0			Overdraft Trinity Aquifer in Trinity Basin (existing wells)
County-Other	30996049		C	996	757	49	Cooke	8	Trinity	Reallocate Trinity Aquifer in Trinity Basin (existing wells)	4c		C	49	8	04928	Trinity Aquifer	$0	0	503	454	0	0	0			Reallocate Trinity Aquifer in Trinity Basin (existing wells)
County-Other	30996049		C	996	757	49	Cooke	8	Trinity	Add new well in Woodbine Aquifer in Trinity Basin	4c		C	49	8	04929	Woodbine Aquifer	$1,186,000	0	141	141	141	141	141			Add new well in Woodbine Aquifer in the Trinity Basin
County-Other	30996049		C	996	757	49	Cooke	8	Trinity	Cooke County Water Supply Project	4c		C	49	2	02220	Moss Lake		0	558	558	558	558	558			Cooke County Water Supply Project.
County-Other	30996049		C	996	757	49	Cooke	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3	03010	UTRWD (Chapman)		0	714	458	545	537	527			UTRWD (Lake Chapman). See UTRWD costs.

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County-Other	30996049		C	996	757	49	Cooke	8	Trinity	Purchase water from UTRWD (Reuse)	4b		D		3		UTRWD (Reuse)		0	227	458	544	536	527			UTRWD (reuse). See UTRWD costs.
Manufacturing	31001049		C	1001	1001	49	Cooke	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	49	8	04928	Trinity Aquifer	$0	147	0	0	0	0	0			Overdraft Trinity Aquifer (existing wells)
Manufacturing	31001049		C	1001	1001	49	Cooke	8	Trinity	Moss Lake	4c		C	49	2	02220	Moss Lake		0	260	260	260	260	260			56% Gainesville. Supplied through Cooke County Water Supply Project.
Manufacturing	31001049		C	1001	1001	49	Cooke	8	Trinity	Muenster Lake	4o		C	49	8		Muenster Lake		0	204	204	204	204	204			44% Muenster. Costs included in Muenter's costs.
Mining	31003049		C	1003	1003	49	Cooke	2	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	49	2	04928	Trinity Aquifer	$0	89	0	0	0	0	0			Overdraft Trinity Aquifer (existing wells)
Irrigation	31004049		C	1004	1004	49	Cooke	2	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	49	2	04928	Trinity Aquifer	$0	39	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)
Irrigation	31004049		C	1004	1004	49	Cooke	2	Red	Reallocate Trinity Aquifer (existing wells)	4c		C	49	2	04928	Trinity Aquifer	$0	0	33	27	44	39	33			Reallocate Trinity Aquifer (existing wells)
Livestock	31005049		C	1005	1005	49	Cooke	2	Red	Overdraft Trinity Aquifer in Red Basinin 2000 (existing wells)	4c		C	49	2	04928	Trinity Aquifer	$0	105	0	0	0	0	0			Overdraft Trinity Aquifer in Red Basin in 2000 (existing wells)
Livestock	31005049		C	1005	1005	49	Cooke	2	Red	Reallocate Trinity Aquifer in Red Basin (existing wells)	4c		C	49	2	04928	Trinity Aquifer	$0	0	105	105	146	146	146			Reallocate Trinity Aquifer in Red Basin (existing well)

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Livestock	31005049		C	1005	1005	49	Cooke	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	49	8	04928	Trinity Aquifer	$0	270	0	0	0	0	0			Overdraft Trinity Aquifer in Trinity Basin in 2000 (existing wells)
Livestock	31005049		C	1005	1005	49	Cooke	8	Trinity	Reallocate Trinity Aquifer in Trinity Basin (existing wells)	4c		C	49	8	04928	Trinity Aquifer	$0	0	270	270	348	348	348			Reallocate Trinity Aquifer in Trinity Basin (existing wells)
Livestock	31005049		C	1005	1005	49	Cooke	8	Trinity	Overdraft Trinity Aquifer in Trinity Basin in 2000 (new well)	4c		C	49	8	04928	Trinity Aquifer	$157,000	8	0	0	0	0	0			Overdraft Trinity Aquifer in Trinity Basin in 2000 (new well)
Livestock	31005049		C	1005	1005	49	Cooke	8	Trinity	Reallocate Trinity Aquifer in Trinity Basin (new well)	4c		C	49	8	4928	Trinity Aquifer	$0	0	8	8	8	8	8			Reallocate Trinity Aquifer in Trinity Basin (new well)
Addison	30003000		C	3	673	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Addison	30003000		C	3	673	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		969	2,993	13,970	12,884	13,878	15,291			Current DWU customer. See DWU costs.
Balch Springs	30049000		C	49	33	57	Dallas	8	Trinity	Renew DWU Contract with Dallas County WCID #6	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract with Dallas County WCID #6
Balch Springs	30049000		C	49	33	57	Dallas	8	Trinity	Continue purchasing water from Dallas County WCID #6 (DWU)	4e1	206800					Dallas System		369	1,175	4,638	3,929	3,719	3,875			Current Dallas County WCID #6 (DWU) customer. See DWU costs.
Carrollton	30147000	P	C	147	98	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Carrollton	30147000	P	C	147	98	57	Dallas	8	Trinity	Continue purchasing water from	4e1	206800					Dallas System		1,684	4,142	18,549	15,624	14,813	14,447			Current DWU customer. See DWU costs.

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										DWU																	
Cedar Hill	30151000	P	C	151	102	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Cedar Hill	30151000	P	C	151	102	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		791	3,129	14,502	15,357	18,719	19,836			Current DWU customer. See DWU costs.
Cockrell Hill	30182000		C	182	121	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Cockrell Hill	30182000		C	182	121	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		96	241	891	734	695	725			Current DWU customer. See DWU costs.
Combine	30193000	P	C	193	766	57	Dallas	8	Trinity	Continue purchasing water from Combine WSC (DWU)	4e1	206800					Dallas System		11	34	17	0	0	4			Current Combine WSC (DWU) customer. See DWU costs.
Coppell	30201000		C	201	133	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Coppell	30201000		C	201	133	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		1,108	18,326	14,443	12,254	12,070	12,916			Current DWU customer. See DWU costs.
Dallas	30227000	P	C	227	151	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		41,471	69,400	10,000	0	0	6,000			Current DWU customer. See DWU costs.
De Soto	30234000		C	234	161	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
De Soto	30234000		C	234	161	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		1,182	3,999	17,349	16,446	17,717	20,208			Current DWU customer. See DWU costs.
Duncanville	30256000		C	256	171	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Duncanville	30256000		C	256	171	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		1,076	3,060	11,803	10,224	10,065	10,487			Current DWU customer. See DWU costs.
Farmers Branch	30293000		C	293	198	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract

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Water User Group Name	**Water User Group Identifier**		**RWPG Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Name of Water Manage-ment Strategy**	**Type of Water Supply**	**Major Water Provider Number (TWDB Alpha Number)**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
Farmers Branch	30293000		C	293	198	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		1,483	3,569	16,781	14,671	15,641	17,704			Current DWU customer. See DWU costs.
Garland	30334000	P	C	334	230	57	Dallas	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	8,590	17,390	22,494	19,652	23,412			Current NTMWD customer. See NTMWD costs.
Glenn Heights	30344000	P	C	344	697	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Glenn Heights	30344000	P	C	344	697	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		94	287	147	1,203	1,331	1,553			Current DWU customer. See DWU costs.
Grand Prairie	30353000	P	C	353	245	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Grand Prairie	30353000	P	C	353	245	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		1,855	4,434	19,813	16,156	15,674	15,941			Current DWU customer. See DWU costs.
Grapevine	30360000	P	C	360	249	57	Dallas	8	Trinity	Begin purchasing water from DWU	4e1	206800					Dallas System		0	3	5	6	9	10			New DWU customer.
Grapevine	30360000	P	C	360	249	57	Dallas	8	Trinity	Direct Reuse	4b						Direct Reuse		0	3	5	6	9	10			Direct reuse. See costs in Tarrant County portion of Grapevine.
Hutchins	30429000		C	429	294	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Hutchins	30429000		C	429	294	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		101	336	1,493	1,559	1,876	2,385			Current DWU customer. See DWU costs.
Irving	30437000		C	437	298	57	Dallas	8	Trinity	Lake Chapman	4c		D		3	03010	Irving connection to Lake Chapman	$97,500,000	0	50,200	49,900	49,500	49,100	48,800			Lake Chapman connection. Costs shared with UTRWD (Chapman)
Irving	30437000		C	437	298	57	Dallas	8	Trinity	Participant in Marvin Nichols I Reservoir (Phase I)	4j	206800	D		3	03050	Marvin Nichols I (Phase I)	$48,904,000	0	0	0	20,000	20,000	20,000			Participant in Marvin Nichols I Reservoir (Phase I)
Irving	30437000		C	437	298	57	Dallas	8	Trinity	Participant in Marvin Nichols I Reservoir	4j	206800	D		3	03050	Marvin Nichols I (Phase II)	$29,152,000	0	0	0	0	0	5,000			Participant in Marvin Nichols I Reservoir (Phase II)

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										(Phase II)																	
Irving	30437000		C	437	298	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		5,931	1,716	0	0	0	0			Current DWU customer. See DWU costs.
Lancaster	30429000		C	509	345	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Lancaster	30437000		C	509	345	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		594	1,669	6,599	5,632	5,351	5,373			Current DWU customer. See DWU costs.
Lewisville	30519000	P	C	519	355	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Lewisville	30519000	P	C	519	355	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		25	77	451	453	505	599			Current DWU customer. See DWU costs.
Mesquite	30592000		C	592	401	57	Dallas	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	5,928	13,828	20,243	19,673	23,011			Current NTMWD customer. See NTMWD costs.
Ovilla	30663000	P	C	663	729	57	Dallas	8	Trinity	Renew DWU Contract with Cedar Hill	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract with Cedar Hill
Ovilla	30663000	P	C	663	729	57	Dallas	8	Trinity	Continue purchasing water from Cedar Hill (DWU)	4e1	206800					Dallas System		11	32	126	118	124	143			Current Cedar Hill (DWU) customer. See DWU costs.
Richardson	30747000	P	C	747	498	57	Dallas	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	6,053	12,707	16,799	14,918	18,190			Current NTMWD customer. See NTMWD costs.
Rowlett	30777000	P	C	777	521	57	Dallas	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	2,110	5,020	7,369	6,839	8,870			Current NTMWD customer. See NTMWD costs.
Sachse	30784000	P	C	784	742	57	Dallas	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	764	1,740	2,561	2,457	3,128			Current NTMWD customer. See NTMWD costs.
Seagoville	30812000		C	812	547	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract

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Seagoville	30812000		C	812	547	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		257	1,038	4,448	4,172	4,416	4,794			Current DWU customer. See DWU costs.
Sunnyvale	30871000		C	871	749	57	Dallas	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	399	1,027	1,380	1,218	1,465			Current NTMWD customer. See NTMWD costs.
Wilmer	30975000		C	975	657	57	Dallas	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	57	8	05728	Trinity Aquifer	$0	136	0	0	0	0	0			Overdraft Trinity Aquifer in 2000. Existing system can handle demand.
Wilmer	30975000		C	975	657	57	Dallas	8	Trinity	Begin purchasing water from DWU	4e1	206800					Dallas System		0	376	348	297	274	286			New DWU customer. See DWU costs.
County-Other	30996057		C	996	757	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		0	452	7,100	3,466	4,241	4,867			Current DWU customer. See DWU costs.
County-Other	30996057		C	996	757	57	Dallas	8	Trinity	Increase supply from DWU	4e1	206800					Dallas System		0	0	0	6,000	31,000	25,000			Additional Dallas County Other. See DWU costs.
County-Other	30996057		C	996	757	57	Dallas	8	Trinity	New Dallas County (Marvin Nichols I - Phase I)	4j		D		3	03050	Marvin Nichols I (Phase I)	$80,646,000	0	0	0	12,000	12,000	12,000			New Dallas County (Marvin Nichols I -Phase I)
County-Other	30996057		C	996	757	57	Dallas	8	Trinity	New Dallas County (Marvin Nichols I - Phase II)	4j		D		3	03050	Marvin Nichols I (Phase II)	$49,191,000	0	0	0	0	0	27,000			New Dallas County (Marvin Nichols I - Phase II)
County-Other	30996057		C	996	757	57	Dallas	8	Trinity	TRA/Las Colinas Direct Reuse	4b	171	C		8		TRA/Las Colinas Reuse	$5,493,000	0	7,000	7,000	7,000	7,000	7,000			TRA/Las Colinas Direct Reuse
County-Other	30996057		C	996	757	57	Dallas	8	Trinity	TRA Reuse - Phase I (Joe Pool) (Indirect)	4b	171	C		8		Joe Pool Reuse Phase I	$51,765,000	0	0	7,000	14,000	14,000	14,000			TRA Reuse - Phase I (Joe Pool) (Indirect)
County-Other	30996057		C	996	757	57	Dallas	8	Trinity	TRA Reuse - Phase II (Joe Pool) (Indirect)	4b	171	C		8		Joe Pool Reuse Phase II	$41,213,000	0	0	0	0	7,000	14,000			TRA Reuse - Phase II (Joe Pool) (Indirect)
County-Other	30996057		C	996	757	57	Dallas	8	Trinity	TRA Reuse - Phase I (Grapevine) (Indirect)	4b	171	C		8		Grapevine Lake Reuse Phase I	$38,701,000	0	0	0	4,000	8,000	8,000	8,000			TRA Reuse - Phase I (Grapevine) (Indirect)

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County-Other	30996057		C	996	757	57	Dallas	8	Trinity	TRA Reuse - Phase II (Grapevine) (Indirect)	4b	171	C		8		Grapevine Lake Reuse Phase II	$29,967,000	0	0	0	0	8,000	8,000			TRA Reuse - Phase II (Grapevine) (Indirect)
County-Other	30996057		C	996	757	57	Dallas	8	Trinity	New water treatment plant (Dallas County Other)	4o		C		8		Water Treatment Plant Expansion by 2030	$34,980,000	0	0	0	0	0	0			New water treatment plant by 2030 (Dallas County Other).
County-Other	30996057		C	996	757	57	Dallas	8	Trinity	Expand water treatment plant (Dallas County Other)	4o		C		8		Water Treatment Plant Expansion by 2050	$44,974,000	0	0	0	0	0	0			Expand water treatment plant by 2050 (Dallas County Other).
Manufacturing	31001057		C	1001	1001	57	Dallas	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Manufacturing	31001057		C	1001	1001	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		4,732	12,644	8,423	0	1,678	3,401			Current DWU customer. See DWU costs.
Manufacturing	31001057		C	1001	1001	57	Dallas	8	Trinity	Irving (DWU sources). See Irving and DWU costs.	4e1	206800					Dallas System		350	0	0	0	0	0			Irving (DWU sources). See Irving and DWU costs.
Manufacturing	31001057		C	1001	1001	57	Dallas	8	Trinity	Irving (Chapman). See Irving costs.	4j		D		3	03010	Lake Chapman (Irving)		0	532	334	2,925	2,925	2,925			Irving (Chapman). See Irving costs.
Manufacturing	31001057		C	1001	1001	57	Dallas	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	1,935	636	601	789	1,444			Current NTMWD customer. See NTMWD costs.
Steam Electric Power	31002057		C	1002	1002	57	Dallas	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		113	3,000	3,390	3,000	3,000	3,000			Current DWU customer. See DWU costs.
Steam Electric Power	31002057		C	1002	1002	57	Dallas	8	Trinity	Renew DWU Contract for TXU's Northlake Plant	4e1	206800					Dallas System		0	0	0	0	0	9,550			Renew DWU Contract for TXU's Northlake Plant. See DWU costs.
Steam Electric Power	31002057		C	1002	1002	57	Dallas	8	Trinity	Renew DWU contract for TXU's Hubbard	4e1	206800					Dallas System		0	0	3,000	3,000	3,000	3,000			Renew DWU contract for TXU's Hubbard Plant. See DWU costs.

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										Plant																	
Steam Electric Power	31002057		C	1002	1002	57	Dallas	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	45	121	139	112	186			Current NTMWD customer. See NTMWD costs.
Steam Electric Power	31002057		C	1002	1002	57	Dallas	8	Trinity	TRA/Mountain Creek Reuse (Indirect)	4b	171	C		8		Mountain Creek Reuse	$6,808,000	0	0	3,000	3,000	3,000	3,000			TRA/Mountain Creek Reuse (Indirect)
Mining	31003057		C	1003	1003	57	Dallas	8	Trinity	Add new wells & overdraft Trinity Aquifer thru 2010.	4c		C	57	8	05728	Trinity Aquifer	$1,372,000	1,350	1,859	0	0	0	0			Add new wells & overdraft Trinity Aquifer thru 2010.
Mining	31003057		C	1003	1003	57	Dallas	8	Trinity	Begin purchasing water from DWU	4e1	206800					Dallas System		0	0	3,378	3,672	4,431	5,580			New DWU customer. See DWU costs.
Argyle	30036000		C	36	677	61	Denton	6	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	483	236	0	0	0			UTRWD (Lake Chapman). See UTRWD costs.
Argyle	30036000		C	36	677	61	Denton	7	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	477	224	0	0	0			UTRWD (reuse). See UTRWD costs.
Argyle	30036000		C	36	677	61	Denton	8	Trinity	Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract with UTRWD
Argyle	30036000		C	36	677	61	Denton	8	Trinity	Continue purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	4,186	4,365	4,465			Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Aubrey	30043000		C	43	758	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	55	25	119	131	205			UTRWD (Lake Chapman). See UTRWD costs.
Aubrey	30043000		C	43	758	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	54	24	113	124	195			UTRWD (reuse). See UTRWD costs.

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Aubrey	30043000		C	43	758	61	Denton	8	Trinity	(*) Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			(*) Renew DWU Contract with UTRWD
Aubrey	30043000		C	43	758	61	Denton	8	Trinity	(*) Continue purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	325	456	928			(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Bartonville	30058000		C	58	820	61	Denton	8	Trinity	(*) Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			(*) Renew DWU Contract with UTRWD.
Bartonville	30058000		C	58	820	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	348	125	0	0	0			UTRWD (Lake Chapman). See UTRWD costs.
Bartonville	30058000		C	58	820	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	344	119	0	0	0			UTRWD (reuse). See UTRWD costs.
Bartonville	30058000		C	58	820	61	Denton	8	Trinity	(*) Continue purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	2,370	2,754	3,003			(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Carrollton	30147000	P	C	147	98	61	Denton	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Carrollton	30147000	P	C	147	98	61	Denton	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		1,464	3,827	17,725	15,265	14,812	14,787			Current DWU customer. See DWU costs.
Copper Canyon	30202000		C	202	849	61	Denton	8	Trinity	(*) Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			(*) Renew DWU Contract with UTRWD.
Copper Canyon	30202000		C	202	849	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	216	89	0	0	0			UTRWD (Lake Chapman). See UTRWD costs.
Copper Canyon	30202000		C	202	849	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	214	85	0	0	0			UTRWD (reuse). See UTRWD costs.

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Copper Canyon	30202000		C	202	849	61	Denton	8	Trinity	(*) Continue purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	1,320	1,541	1,682			(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Corinth	30204000		C	204	691	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	1,251	455	1,509	1,233	1,072			UTRWD (Lake Chapman). See UTRWD costs.
Corinth	30204000		C	204	691	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	1,236	433	1,433	1,171	1,017			UTRWD (reuse). See UTRWD costs.
Corinth	30204000		C	204	691	61	Denton	8	Trinity	Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract with UTRWD
Corinth	30204000		C	204	691	61	Denton	8	Trinity	Continue purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	4,121	4,304	4,862			Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Crossroads	30000000		C		1011	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	61	48	256	320	494			UTRWD (Lake Chapman). See UTRWD costs.
Crossroads	30000000		C		1011	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	60	46	243	303	469			UTRWD (reuse). See UTRWD costs.
Crossroads	30000000		C		1011	61	Denton	8	Trinity	(*) Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			(*) Renew DWU Contract with UTRWD.
Crossroads	30000000		C		1011	61	Denton	8	Trinity	(*) Continue purchasing water from Mustang WSC (UTRWD from DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	699	1,115	2,242			(*) Current Mustang WSC (UTRWD from DWU) customer. See UTRWD and DWU costs.
Dallas	30227000	P	C	227	151	61	Denton	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		760	2,114	209	0	0	102			Current DWU customer. See DWU costs.

A	B		C	D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
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Denton	30240000		C	240	159	61	Denton	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Denton	30240000		C	240	159	61	Denton	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		0	0	10,459	18,360	26,998	39,512			Current DWU customer. See DWU costs.
Denton	30240000		C	240	159	61	Denton	8	Trinity	Expand water treatment plant in 2000	4o						Expand water treatment plant in 2000	$29,983,000	0	0	0	0	0	0			Expand water treatment plant in 2000
Denton	30240000		C	240	159	61	Denton	8	Trinity	Expand water treatment plant in 2020	4o						Expand water treatment plant in 2020	$29,983,000	0	0	0	0	0	0			Expand water treatment plant in 2020
Denton	30240000		C	240	159	61	Denton	8	Trinity	Expand water treatment plant in 2040	4o						Expand water treatment plant in 2040	$29,983,000	0	0	0	0	0	0			Expand water treatment plant in 2040
Double Oak	30251000		C	251	768	61	Denton	8	Trinity	(*) Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			(*) Renew DWU Contract with UTRWD.
Double Oak	30251000		C	251	768	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	194	58	0	0	0			UTRWD (Lake Chapman). See UTRWD costs.
Double Oak	30251000		C	251	768	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	192	55	0	0	0			UTRWD (reuse). See UTRWD costs.
Double Oak	30251000		C	251	768	61	Denton	8	Trinity	(*) Continue purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	997	992	1,045			(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Flower Mound	30301000		C	301	204	61	Denton	8	Trinity	Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract with UTRWD
Flower Mound	30301000		C	301	204	61	Denton	8	Trinity	Purchase water from UTRWD	4c		D		3		UTRWD (Chapman)		0	3,469	1,357	0	0	0			UTRWD (Lake Chapman). See UTRWD costs.

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										(Lake Chapman)																	
Flower Mound	30301000		C	301	204	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	3,430	1,291	0	0	0			UTRWD (reuse). See UTRWD costs.
Flower Mound	30301000		C	301	204	61	Denton	8	Trinity	Continue purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	23,492	26,195	28,951			Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Flower Mound	30301000		C	301	204	61	Denton	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Flower Mound	30301000		C	301	204	61	Denton	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		711	2,354	8,968	8,968	8,968	8,968			Current DWU customer. See DWU costs.
Frisco	30319000	P	C	319	221	61	Denton	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	108	246	382	360	459			Current NTMWD customer. See NTMWD costs.
Hebron	30390000		C	390	776	61	Denton	7	Trinity	Overdraft Woodbine Aquifer in 2000	4c						Woodbine Aquifer	$0	200	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000. Existing pumps can meet this demand.
Hebron	30390000		C	390	776	61	Denton	8	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	558	395	150	129	130			UTRWD (Lake Chapman) new customer. See UTRWD costs.
Hebron	30390000		C	390	776	61	Denton	8	Trinity	Begin purchasing water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	552	375	143	122	123			UTRWD (reuse) new customer. See UTRWD costs.
Hebron	30390000		C	390	776	61	Denton	8	Trinity	(*) Begin purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	411	448	590			(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
Hickory Creek	30399000		C	399	704	61	Denton	8	Trinity	Purchase water from Lake Cities MUD (UTRWD	4c		D		3		UTRWD (Chapman)		0	181	80	279	267	257			UTRWD (Lake Chapman). See UTRWD costs.

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										Lake Chapman)																	
Hickory Creek	30399000		C	399	704	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	179	77	265	254	244			UTRWD (reuse). See UTRWD costs.
Hickory Creek	30399000		C	399	704	61	Denton	8	Trinity	Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract with UTRWD
Hickory Creek	30399000		C	399	704	61	Denton	8	Trinity	Continue purchasing water from Lake Cities MUA (UTRWD from DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	764	932	1,163			Current Lake Cities MUA (UTRWD from DWU) customer. See UTRWD and DWU costs.
Highland Village	30403000		C	403	706	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	998	238	758	621	565			UTRWD (Lake Chapman). See UTRWD costs.
Highland Village	30403000		C	403	706	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	986	225	719	594	531			UTRWD (reuse). See UTRWD costs.
Highland Village	30403000		C	403	706	61	Denton	8	Trinity	Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract with UTRWD
Highland Village	30403000		C	403	706	61	Denton	8	Trinity	Continue purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	2,068	2,190	2,528			Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Justin	30456000		C	456	784	61	Denton	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	61	8	06128	Trinity Aquifer	$0	180	0	0	0	0	0			Overdraft Trinity Aquifer in 2000. Existing pumps can meet this demand.
Justin	30456000		C	456	784	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	516	479	0	0	0			UTRWD (Lake Chapman). See UTRWD costs.

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Justin	30456000		C	456	784	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	510	456	0	0	0			UTRWD (reuse). See UTRWD costs.
Justin	30456000		C	456	784	61	Denton	8	Trinity	(*) Begin purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	1,382	2,241	2,798			(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
Krugerville	30481000		C	481	892	61	Denton	8	Trinity	Add new wells & overdraft Trinity Aquifer in 2000.	4c		C	61	8	06128	Trinity Aquifer	$547,000	77	0	0	0	0	0			Add new wells & overdraft Trinity Aquifer in 2000.
Krugerville	30481000		C	481	892	61	Denton	8	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	223	107	58	61	60			UTRWD (Lake Chapman) new customer. See UTRWD costs.
Krugerville	30481000		C	481	892	61	Denton	8	Trinity	Begin purchasing water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	220	102	55	58	57			UTRWD (reuse) new customer. See UTRWD costs.
Krugerville	30481000		C	481	892	61	Denton	8	Trinity	(*) Begin purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	158	214	274			(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
Krum	30482000		C	482	785	61	Denton	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	61	8	06128	Trinity Aquifer	$0	264	0	0	0	0	0			Overdraft Trinity Aquifer in 2000. Existing pumps can meet this demand.
Krum	30482000		C	482	785	61	Denton	8	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	694	393	195	197	195			UTRWD (Lake Chapman) new customer. See UTRWD costs.
Krum	30482000		C	482	785	61	Denton	8	Trinity	Begin purchasing water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	686	373	185	187	185			UTRWD (reuse) new customer. See UTRWD costs.

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Water User Group Name	**Water User Group Identifier**		**RWPG Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Name of Water Manage-ment Strategy**	**Type of Water Supply**	**Major Water Provider Number (TWDB Alpha Number)**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
Krum	30482000		C	482	785	61	Denton	8	Trinity	(*) Begin purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	531	688	882			(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
Lake Dallas	30498000		C	498	337	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	343	109	347	319	276			UTRWD (Lake Chapman). See UTRWD costs.
Lake Dallas	30498000		C	498	337	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	339	103	329	303	262			UTRWD (reuse). See UTRWD costs.
Lake Dallas	30498000		C	498	337	61	Denton	8	Trinity	Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract with UTRWD.
Lake Dallas	30498000		C	498	337	61	Denton	8	Trinity	Continue purchasing water from Lake Cities MUA (UTRWD from DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	947	1,115	1,252			Current Lake Cities MUA (UTRWD from DWU) customer. See UTRWD and DWU costs.
Lewisville	30519000	P	C	519	355	61	Denton	8	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	0	4,954	2,704	2,524	2,368			UTRWD (Lake Chapman) new customer. See UTRWD costs.
Lewisville	30519000	P	C	519	355	61	Denton	8	Trinity	Begin purchasing water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	0	4,712	2,570	2,400	2,252			UTRWD (reuse) new customer. See UTRWD costs.
Lewisville	30519000	P	C	519	355	61	Denton	8	Trinity	Begin purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	7,397	8,828	10,765			UTRWD (DWU) new customer.
Lewisville	30519000	P	C	519	355	61	Denton	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract.
Lewisville	30519000	P	C	519	355	61	Denton	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		2,457	6,460	28,025	28,025	28,025	28,025			Current DWU customer. See DWU costs.

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Lincoln Park	30000000		C		1018	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	10	6	41	58	64			UTRWD (Lake Chapman). See UTRWD costs.
Lincoln Park	30000000		C		1018	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	10	6	39	55	61			UTRWD (reuse). See UTRWD costs.
Lincoln Park	30000000		C		1018	61	Denton	8	Trinity	(*) Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			(*) Renew DWU Contract with UTRWD.
Lincoln Park	30000000		C		1018	61	Denton	8	Trinity	(*) Continue purchasing water from Mustange WSC (UTRWD from DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	114	200	289			(*) Current Mustang WSC (UTRWD from DWU) customer. See UTRWD and DWU costs.
Little Elm	30527000		C	527	790	61	Denton	8	Trinity	Add new well & overdraft Woodbine Aquifer in 2000.	4c		C	61	8	06129	Woodbine Aquifer	$1,309,000	234	0	0	0	0	0			Add new well & overdraft Woodbine Aquifer in 2000.
Little Elm	30527000		C	527	790	61	Denton	8	Trinity	Begin purchasing water from NTMWD	4e3	160					NTMWD System		0	776	1,414	2,059	1,879	2,180			New NTMWD customer. See NTMWD costs.
Northlake	30000000		C		1020	61	Denton	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth Contract
Northlake	30000000		C		1020	61	Denton	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	110	2,375	4,504	4,871	7,070			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Northlake	30000000		C		1020	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	22	467	0	0	0			UTRWD (Lake Chapman). See UTRWD costs.
Northlake	30000000		C		1020	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	22	445	0	0	0			UTRWD (reuse). See UTRWD costs.
Northlake	30000000		C		1020	61	Denton	8	Trinity	(*) Purchase water from UTRWD (DWU)	4e1	206800					Dallas System		0	0	0	1,399	2,014	2,761			(*) DWU Contract with UTRWD. See DWU and

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																											UTRWD costs.
Oak Point	30648000		C	648	930	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	109	73	326	318	305			UTRWD (Lake Chapman). See UTRWD costs.
Oak Point	30648000		C	648	930	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	108	70	310	302	290			UTRWD (reuse). See UTRWD costs.
Oak Point	30648000		C	648	930	61	Denton	8	Trinity	(*) Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			(*) Renew DWU Contract with UTRWD.
Oak Point	30648000		C	648	930	61	Denton	8	Trinity	(*) Continue purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	892	1,112	1,383			(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Pilot Point	30695000		C	695	465	61	Denton	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	61	8	06128	Trinity Aquifer	$0	279	0	0	0	0	0			Overdraft Trinity Aquifer in 2000. Existing pumps can meet this demand.
Pilot Point	30695000		C	695	465	61	Denton	8	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	846	485	253	238	244			UTRWD (Lake Chapman) new customer. See UTRWD costs.
Pilot Point	30695000		C	695	465	61	Denton	8	Trinity	Begin purchasing water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	837	461	241	226	232			UTRWD (reuse) new customer. See UTRWD costs.
Pilot Point	30695000		C	695	465	61	Denton	8	Trinity	(*) Begin purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	692	834	1,107			(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
Plano	30704000	P	C	704	472	61	Denton	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	5	14	23	22	32			Current NTMWD customer. See NTMWD costs.

A	B		C	D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
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Ponder	30000000		C		1021	61	Denton	8	Trinity	Begin purchasing water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	260	350	0	0	0			UTRWD (Lake Chapman) new customer. See UTRWD costs.
Ponder	30000000		C		1021	61	Denton	8	Trinity	Begin purchasing water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	257	333	0	0	0			UTRWD (reuse) new customer. See UTRWD costs.
Ponder	30000000		C		1021	61	Denton	8	Trinity	(*) Begin purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	1,068	1,294	1,497			(*) New UTRWD (DWU) customer. See UTRWD and DWU costs.
Roanoke	30758000		C	758	800	61	Denton	8	Trinity	Renew Fort Worth Contract with Trophy Club #1	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth Contract with Trophy Club #1
Roanoke	30758000		C	758	800	61	Denton	8	Trinity	Continue purchasing water from Trophy Club #1 (Fort Worth from TRWD)	4e2	298900					Fort Worth System		0	43	744	1,091	962	1,291			Current Trophy Club #1 (Fort Worth from TRWD) customer. See Fort Worth and TRWD costs.
Sanger	30801000		C	801	535	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	723	1,508	672	649	635			UTRWD (Lake Chapman). See UTRWD costs.
Sanger	30801000		C	801	535	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	715	1,435	638	616	602			UTRWD (reuse). See UTRWD costs.
Sanger	30801000		C	801	535	61	Denton	8	Trinity	(*) Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			(*) Renew DWU Contract with UTRWD.
Sanger	30801000		C	801	535	61	Denton	8	Trinity	(*) Continue purchasing water from Denton (UTRWD).	4e1	206800					UTRWD (DWU) System		0	0	0	1,837	2,263	2,878			(*) Current Denton (UTRWD) (DWU) customer. See UTRWD and DWU costs.

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Shady Shores	30820000		C	820	803	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	112	41	146	141	120			UTRWD (Lake Chapman). See UTRWD costs.
Shady Shores	30820000		C	820	803	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	111	39	139	134	113			UTRWD (reuse). See UTRWD costs.
Shady Shores	30820000		C	820	803	61	Denton	8	Trinity	Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract with UTRWD
Shady Shores	30820000		C	820	803	61	Denton	8	Trinity	Continue purchasing water from Lake Cities MUA (UTRWD from DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	398	492	543			Current Lake Cities MUA (UTRWD from DWU) customer. See UTRWD and DWU costs.
Southlake	30846000	P	C	846	570	61	Denton	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth Contract
Southlake	30846000	P	C	846	570	61	Denton	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	804	599	820	753	1,076			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
The Colony	30891000		C	891	752	61	Denton	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
The Colony	30891000		C	891	752	61	Denton	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		379	1,724	11,408	10,826	11,498	11,696			Current DWU customer. See DWU costs.
Trophy Club	30911000		C	911	806	61	Denton	8	Trinity	Renew Fort Worth Contract with Trophy Club #1	4e2	298900					Fort Worth System		0	0	0	0	0	0			Renew Fort Worth Contract with Trophy Club #1. See Fort Worth and TRWD costs.
Trophy Club	30911000		C	911	806	61	Denton	8	Trinity	Continue purchasing water from Trophy Club #1 (Fort Worth from TRWD)	4e2	298900					Fort Worth System		0	332	5,440	7,692	6,777	9,092			Current Trophy Club #1 (Fort Worth from TRWD) customer. See Fort Worth and TRWD costs.

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County-Other	30996061		C	996	757	61	Denton	8	Trinity	TRA Indirect Reuse (Denton Creek)	4b	171					Denton County Reuse	$2,653,000	0	2,000	4,000	5,000	5,000	5,000			TRA Indirect Reuse (Denton Creek)
County-Other	30996061		C	996	757	61	Denton	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth Contract
County-Other	30996061		C	996	757	61	Denton	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	0	0	5,195	4,500	5,729			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
County-Other	30996061		C	996	757	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	0	0	4,434	4,688	4,722			UTRWD (Lake Chapman). See UTRWD costs.
County-Other	30996061		C	996	757	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	0	0	4,218	4,452	4,488			UTRWD (reuse). See UTRWD costs.
County-Other	30996061		C	996	757	61	Denton	8	Trinity	(*) Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			(*) Renew DWU Contract with UTRWD.
County-Other	30996061		C	996	757	61	Denton	8	Trinity	(*) Continue purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	12,145	16,369	21,454			(*) Current UTRWD (DWU) customer. See UTRWD and DWU costs.
Manufacturing	31001061		C	1001	1001	61	Denton	8	Trinity	Purchase water from UTRWD (Lake Chapman)	4c		D		3		UTRWD (Chapman)		0	257	97	252	263	275			UTRWD (Lake Chapman). See UTRWD costs.
Manufacturing	31001061		C	1001	1001	61	Denton	8	Trinity	Purchase water from UTRWD (reuse)	4b		D		3		UTRWD (Reuse)		0	254	92	239	250	261			UTRWD (reuse). See UTRWD costs.
Manufacturing	31001061		C	1001	1001	61	Denton	8	Trinity	(*) Renew DWU Contract with UTRWD	4e1	206800					Dallas System	$0	0	0	0	0	0	0			(*) Renew DWU Contract with UTRWD.
Manufacturing	31001061		C	1001	1001	61	Denton	8	Trinity	(*) Continue purchasing water from UTRWD (DWU)	4e1	206800					UTRWD (DWU) System		0	0	0	686	917	1,244			(*) Current UTRWD (DWU) customer. See UTRWD and

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																											DWU costs.
Mining	31003061		C	1003	1003	61	Denton	8	Trinity	Increase Other Local Supply	4c		C		8	08999	Other Local Supply	$0	0	0	0	0	0	16			Increase Other Local Supply.
Steam Electric Power	31002061		C	1002	1002	61	Denton	8	Trinity	Indirect Reuse	4b						Reuse	$9,315,000	0	4,000	4,000	4,000	5,500	5,500			Indirect Reuse.
Cedar Hill	30151000	P	C	151	102	70	Ellis	8	Trinity	Renew DWU contract	4e1	206800					Dallas System		0	0	0	0	0	0			Renew DWU Contract
Cedar Hill	30151000	P	C	151	102	70	Ellis	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		1	7	38	43	44	53			Current DWU customer. See DWU costs.
Ennis	30284000		C	284	192	70	Ellis	8	Trinity	Begin purchasing water from TRA (TRWD)	4e2	190	C	81/107	8	086E0	Cedar Creek/Rich land-Chambers System	$9,182,000	0	3,924	3,924	4,204	4,142	4,114			TRWD (new contract). Water supply amounts contain amounts resold to Manufacturing.
Ferris	30296000		C	296	201	70	Ellis	8	Trinity	TRA Ellis County Water Supply Project - Easterly Subsystem	4c	171	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		0	807	807	807	807	807			TRA Ellis County Water Supply Project - Easterly Subsystem (existing contract 807 ac-ft/yr). See TRA cost.
Glenn Heights	30344000	P	C	344	697	70	Ellis	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Glenn Heights	30344000	P	C	344	697	70	Ellis	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		23	67	34	283	289	311			Current DWU customer. See DWU costs.
Grand Prairie	30353000	P	C	353	245	70	Ellis	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Grand Prairie	30353000	P	C	353	245	70	Ellis	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		1	5	43	34	33	32			Current DWU customer. See DWU costs.
Italy	30438000		C	438	299	70	Ellis	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	70	8	09128	Trinity Aquifer	$0	37	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)

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Italy	30438000		C	438	299	70	Ellis	8	Trinity	TRA Ellis County Water Supply Project - Southerly Subsystem	4c	171	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		0	579	579	579	579	579			TRA Ellis County Water Supply Project - Southerly Subsystem (existing contract 560 ac-ft/yr). Expand contract by 19 ac-ft/yr. See TRA cost.
Mansfield	30559000	P	C	559	384	70	Ellis	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	21	14	50	72	127			Current TRWD customer. See TRWD costs.
Maypearl	30573000		C	573	911	70	Ellis	8	Trinity	Add new well & overdraft Woodbine Aquifer in 2000 (new well)	4c		C	70	8	9129	Woodbine Aquifer	$228,000	81	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (new well)
Maypearl	30573000		C	573	911	70	Ellis	8	Trinity	TRA Ellis County Water Supply Project - Westerly Subsystem	4c	171	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		0	415	415	415	415	415			TRA Ellis County Water Supply Project - Westerly Subsystem (existing contract 415 ac-ft/yr). See TRA cost.
Midlothian	30596000		C	596	405	70	Ellis	8	Trinity	TRA Ellis County Water Supply Project	4c	171	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		0	0	1,825	1,825	1,825	1,825			TRA Ellis County Water Supply Project (existing contract 370 ac-ft/yr). Expanded contract with TRA necessary. Water supply amounts contain amounts resold to Manufacturing. See TRA cost.
Midlothian	30596000		C	596	405	70	Ellis	8	Trinity	Midlothian pipeline expansion	4o		C	81/107	8	086E0	Pipeline Expansion	$847,000	0	0	0	0	0	0			Pipeline Expansion

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Midlothian	30596000		C	596	405	70	Ellis	8	Trinity	Midlothian WTP expansion	4o		C	81/107	8	086E0	Water Treatment Plant Expansion Expansion	$5,203,000	0	0	0	0	0	0			Water Treatment Plant Expansion
Milford	30598000		C	598	916	70	Ellis	8	Trinity	Continue to obtain surface water from Files Valley WSC (Aquilla Creek)	4o		G	109	12	12220	Aquilla Creek	$0	95	95	95	95	95	95			Continue to obtain surface water from Files Valley WSC; expand contract if necessary.
Oak Leaf	30647000	P	C	647	929	70	Ellis	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract
Oak Leaf	30647000	P	C	647	929	70	Ellis	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		25	67	35	277	299	339			Current DWU customer. See DWU costs.
Ovilla	30663000	P	C	663	729	70	Ellis	8	Trinity	Renew DWU Contract with Cedar Hill	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract with Cedar Hill
Ovilla	30663000	P	C	663	729	70	Ellis	8	Trinity	Continue purchasing water from Cedar Hill (DWU)	4e1	206800					Dallas System		98	281	1,144	1,060	1,052	1,132			Current Cedar Hill (DWU) customer. See DWU costs.
Palmer	30671000		C	671	731	70	Ellis	8	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	4c		C	70	8	09129	Woodbine Aquifer	$0	83	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (existing wells)
Palmer	30671000		C	671	731	70	Ellis	8	Trinity	TRA Ellis County Water Supply Project - Easterly Subsystem	4c	171	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		0	390	390	390	390	390			TRA Ellis County Water Supply Project - Easterly Subsystem (existing contract 304 ac-ft/yr). Expanded contract with TRA necessary. See TRA cost.
Pecan Hill	30686000		C	686	935	70	Ellis	8	Trinity	New contract with Rockett SUD	4o		C		8	08130	Joe Pool Lake	$0	3	9	9	30	37	59			Pecan Hill residents are retail customers of Rockett SUD.

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Red Oak	30739000		C	739	737	70	Ellis	8	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	4c		C	70	8	09129	Woodbine Aquifer	$0	196	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (existing wells)
Red Oak	30739000		C	739	737	70	Ellis	8	Trinity	TRA Ellis County Water Supply Project - Easterly Subsystem	4c	171	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		0	2,108	2,108	2,108	2,108	2,108			TRA Ellis County Water Supply Project - Easterly Subsystem (existing contract 2,108 ac-ft/yr). See TRA cost.
Waxahachie	30943000		C	943	633	70	Ellis	8	Trinity	TRA Ellis County Water Supply Project - Raw Water Subsystem	4c	171	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		0	5,219	5,219	5,219	5,219	5,219			TRA Ellis County Water Supply Project - Raw Water Subsystem (existing contract 5,212 ac-ft/yr). See TRA cost.
County-Other	30996070		C	996	757	70	Ellis	8	Trinity	TRA Ellis County Water Supply Project	4c	171	C	81/107	8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)	$65,945,000	0	8,687	8,687	8,687	8,687	8,687			TRA Ellis County Water Supply Project (Existing contracts 8,687 ac-ft/yr). See TRA cost.
Manufacturing	31001070		C	1001	1001	70	Ellis	8	Trinity	Ellis County Water Supply Project	4o	171	C	70	8	08210	Lake Bardwell (Ellis County WSP)		0	146	146	146	146	146			Manufacturing Supplies according to historical usage. Supplied from Ellis County Water Supply Project. See TRA cost.
Manufacturing	31001070		C	1001	1001	70	Ellis	8	Trinity	Ellis County Water Supply Project	4c	171	C		8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		0	10	10	10	10	10			Manufacturing Supplies according to historical usage. Supplied from Ellis County Water Supply Project. See TRA cost.

A	B		C	D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
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Manufacturing	31001070		C	1001	1001	70	Ellis	8	Trinity	Ellis County Water Supply Project	4o	171	C	57	8	08130	Joe Pool Lake (Ellis County WSP)		0	1,152	1,152	1,152	1,152	1,152			Manufacturing Supplies according to historical usage. Supplied from Ellis County Water Supply Project. See TRA cost.
Manufacturing	31001070		C	1001	1001	70	Ellis	8	Trinity	Ellis County Water Supply Project	4o	171	C	70	8	08200	Lake Waxahachie (Ellis County WSP)		0	359	359	359	359	359			Manufacturing Supplies according to historical usage. Supplied from Ellis County Water Supply Project. See TRA cost.
Manufacturing	31001070		C	1001	1001	70	Ellis	8	Trinity	Ellis County Water Supply Project	4c	171	C		8	086E0	Cedar Creek/Richland-Chambers System (Ellis County WSP)		0	89	89	89	89	89			Manufacturing Supplies according to historical usage. Supplied from Ellis County Water Supply Project. See TRA cost.
Steam Electric Power	31002070		C	1002	1002	70	Ellis	8	Trinity	Existing 3 MGD contract with Ennis; supplied by wastewater (indirect)	4b		C	70	8		Ennis Reuse	$22,958,000	0	1,822	2,142	2,463	2,409	2,427			Existing 3 MGD contract with Ennis; partially supplied by wastewater (indirect). Additional water treatment may be required depending on water quality.
Steam Electric Power	31002070		C	1002	1002	70	Ellis	8	Trinity	Existing 3 MGD contract with Ennis; supplied by Lake Bardwell	4o		C	70	8	08210	Lake Bardwell	$0	0	1,541	1,221	900	954	936			Existing 3 MGD contract with Ennis; remainder of contract supplied from Lake Bardwell.
Steam Electric Power	31002070		C	1002	1002	70	Ellis	8	Trinity	Joe Pool Lake Indirect Reuse	4b		C	57	8	08130	Joe Pool Lake Reuse		34	34	34	34	34	34			Estimated usage from ANP; retail supply from Midlothian. See TRA costs. (Indirect Reuse)

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Steam Electric Power	31002070		C	1002	1002	70	Ellis	8	Trinity	Reuse from TRA Ten Mile Creek plant	4b	171	C				TRA Ten Mile Creek Plant	$22,958,000	0	20,000	20,000	20,000	20,000	20,000			Reuse from TRA Ten Mile Creek plant
Bonham	30098000		C	98	65	74	Fannin	2	Red	Fannin County Water Supply Project	4j		C		2		Lower Bois d'Arc Lake		0	500	500	500	500	500			Fannin County Water Supply Project. Capital Cost shown in County Other.
Honey Grove	30415000		C	415	283	74	Fannin	3	Sulphur	Fannin County Water Supply Project	4j		C		2		Lower Bois d'Arc Lake		0	27	27	27	27	27			Fannin County Water Supply Project. Capital Cost shown in County Other.
Honey Grove	30415000		C	415	283	74	Fannin	2	Red	Fannin County Water Supply Project	4j		C		2		Lower Bois d'Arc Lake		0	501	501	501	501	501			Fannin County Water Supply Project. Capital Cost shown in County Other.
Leonard	30517000		C	517	352	74	Fannin	3	Sulphur	Fannin County Water Supply Project	4j		C		2		Lower Bois d'Arc Lake		0	37	37	37	37	37			Fannin County Water Supply Project. Capital Cost shown in County Other.
Leonard	30517000		C	517	352	74	Fannin	8	Trinity	Fannin County Water Supply Project	4j		C		2		Lower Bois d'Arc Lake		0	328	328	328	328	328			Fannin County Water Supply Project. Capital Cost shown in County Other.
Savoy	30807000		C	807	957	74	Fannin	2	Red	Fannin County Water Supply Project	4j		C		2		Lower Bois d'Arc Lake		0	126	126	126	126	126			Fannin County Water Supply Project. Capital Cost shown in County Other.
Trenton	30908000		C	908	978	74	Fannin	8	Trinity	Fannin County Water Supply Project	4j		C		2		Lower Bois d'Arc Lake		0	175	175	175	175	175			Fannin County Water Supply Project. Capital Cost shown in County Other.
County-Other	30996074		C	996	757	74	Fannin	2	Red	Fannin County Water Supply Project	4j		C		2		Lower Bois d'Arc Lake	$52,358,000	0	1,836	1,836	1,836	1,836	1,836			Fannin County Water Supply Project
County-Other	30996074		C	996	757	74	Fannin	3	Sulphur	Fannin County Water Supply Project	4j		C		2		Lower Bois d'Arc Lake		0	561	561	561	561	561			Fannin County Water Supply Project. Capital Cost shown in County Other.

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County-Other	30996074		C	996	757	74	Fannin	8	Trinity	Fannin County Water Supply Project	4j		C		2		Lower Bois d'Arc Lake		0	64	64	64	64	64			Fannin County Water Supply Project. Capital Cost shown in County Other.
Fairfield	30289000		C	289	196	81	Freestone	8	Trinity	Add new well in Carrizo-Wilcox Aquifer	4c		C	81	8	08110	Carrizo-Wilcox Aquifer	$178,000	0	0	0	60	75	95			Add new well in Carrizo-Wilcox Aquifer
Wortham	30990000		C	990	668	81	Freestone	8	Trinity	Purchase water from Mexia	4c		G	147		12370	Lake Mexia	$0	270	280	300	320	325	335			Current contract for Mexia water. Pipeline in place.
Steam Electric Power	31002081		C	1002	1002	81	Freestone	8	Trinity	Calpine contract with TRWD	4e2	190					TRWD System	$4,989,000	0	5,602	5,602	5,602	5,602	5,602			Calpine contract with TRWD.
Steam Electric Power	31002081		C	1002	1002	81	Freestone	8	Trinity	Purchase additional water from TRWD (Plant 1)	4e2	190					TRWD System	$4,914,000	0	1,597	2,597	2,982	5,109	5,057			Additional TRWD water (Plant 1)
Steam Electric Power	31002081		C	1002	1002	81	Freestone	8	Trinity	Purchase additional water from TRWD (Plant 2)	4e2	190					TRWD System	$4,914,000	0	1,597	2,597	2,982	5,109	5,057			Additional TRWD water (Plant 2)
Bells	30071000		C	71	824	91	Grayson	2	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	91	2	09128	Trinity Aquifer	$0	24	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)
Bells	30071000		C	71	824	91	Grayson	2	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	4c		C	91	2	09129	Woodbine Aquifer	$0	24	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (existing wells)
Bells	30071000		C	71	824	91	Grayson	2	Red	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	135	135	135	135	135			Grayson County Water Supply Project. See County Other cost.
Collinsville	30187000		C	187	765	91	Grayson	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	91	8	09128	Trinity Aquifer	$0	52	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)

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Collinsville	30187000		C	187	765	91	Grayson	8	Trinity	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	123	123	123	123	123			Grayson County Water Supply Project. See County Other cost.
Gunter	30370000		C	370	876	91	Grayson	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	91	8	09128	Trinity Aquifer	$0	61	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)
Gunter	30370000		C	370	876	91	Grayson	8	Trinity	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	164	164	164	164	164			Grayson County Water Supply Project. See County Other cost.
Howe	30419000		C	419	286	91	Grayson	2	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	4c		C	91	2	09129	Woodbine Aquifer	$0	142	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (existing wells); Howe is currently planning a well in the Trinity Aquifer, could overdraft the Trinity Aquifer instead of or in addition to the Woodbine Aquifer.
Howe	30419000		C	419	286	91	Grayson	2	Red	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	238	238	238	238	238			Grayson County Water Supply Project. See County Other cost.
Howe	30419000		C	419	286	91	Grayson	8	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	4c		C	91	8	09129	Woodbine Aquifer	$0	29	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (existing wells); Howe is currently planning a well in the Trinity Aquifer, could overdraft the Trinity Aquifer instead of or in addition to the Woodbine Aquifer.

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Howe	30419000		C	419	286	91	Grayson	8	Trinity	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	60	60	60	60	60			Grayson County Water Supply Project. See County Other cost.
Luella	30548000		C	548	905	91	Grayson	2	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	4c		C	91	2	09129	Woodbine Aquifer	$0	57	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (existing wells)
Luella	30548000		C	548	905	91	Grayson	2	Red	Add new well & overdraft Woodbine Aquifer in 2000	4c		C	91	2	09129	Woodbine Aquifer	$152,000	8	0	0	0	0	0			Overdraft Woodbine Aquifer (new well)
Luella	30548000		C	548	905	91	Grayson	2	Red	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	82	82	82	82	82			Grayson County Water Supply Project. See County Other cost.
Pottsboro	30719000		C	719	797	91	Grayson	2	Red	Pottsboro acquires water right in Lake Texoma & Denison provides treatment.	4c		C	91	2	02230P	Lake Texoma	$990,000	0	3,000	3,000	3,000	3,000	3,000			Pottsboro acquires water right, Denison provides treatment.
Southmayd	30847000		C	847	961	91	Grayson	2	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	4c		C	91	2	09129	Woodbine Aquifer	$0	35	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (existing wells); Southmayd is currently planning a well in the Trinity Aquifer, could overdraft the Trinity Aquifer instead of or in addition to the Woodbine Aquifer.

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Southmayd	30847000		C	847	961	91	Grayson	2	Red	Overdraft Woodbine Aquifer in 2000 (new well)	4c		C	91	2	09129	Woodbine Aquifer	$439,000	128	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (new well); Southmayd is currently planning a well in the Trinity Aquifer, could overdraft the Trinity Aquifer instead of or in addition to the Woodbine Aquifer. New well.
Southmayd	30847000		C	847	961	91	Grayson	2	Red	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	143	143	143	143	143			Grayson County Water Supply Project. See County Other cost.
Tioga	30902000		C	902	974	91	Grayson	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	91	2	9128	Trinity Aquifer	$0	23	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)
Tioga	30902000		C	902	974	91	Grayson	8	Trinity	Grayson County Water Supply Project	4i		C	91	2	02230P	Lake Texoma		0	86	86	86	86	86			Grayson County Water Supply Project. See County Other cost.
Tom Bean	30904000		C	904	976	91	Grayson	2	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	4c		C	91	2	9129	Woodbine Aquifer	$0	110	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (existing wells)
Tom Bean	30904000		C	904	976	91	Grayson	2	Red	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	150	150	150	150	150			Grayson County Water Supply Project. See County Other cost.
Van Alstyne	30925000		C	925	619	91	Grayson	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	91	8	9128	Trinity Aquifer	$0	58	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)
Van Alstyne	30925000		C	925	619	91	Grayson	8	Trinity	Overdraft Woodbine Aquifer in	4c		C	91	8	9129	Woodbine Aquifer	$0	34	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000

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										2000 (existing wells)																	(existing wells)
Van Alstyne	30925000		C	925	619	91	Grayson	8	Trinity	Add new well & overdraft Woodbine Aquifer in 2000	4c		C	91	8	9129	Woodbine Aquifer	$215,000	40	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (new well); Southmayd is currently planning a well in the Trinity Aquifer, could overdraft the Trinity Aquifer instead of or in addition to the Woodbine Aquifer. New well.
Van Alstyne	30925000		C	925	619	91	Grayson	8	Trinity	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	1,132	1,132	1,132	1,132	1,132			Grayson County Water Supply Project. See County Other cost.
Whitesboro	30967000		C	967	650	91	Grayson	2	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	91	2	9128	Trinity Aquifer	$0	511	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)
Whitesboro	30967000		C	967	650	91	Grayson	2	Red	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	593	593	593	593	593			Grayson County Water Supply Project. See County Other cost.
Whitesboro	30967000		C	967	650	91	Grayson	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	91	8	9128	Trinity Aquifer	$0	14	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)
Whitesboro	30967000		C	967	650	91	Grayson	8	Trinity	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	25	25	25	25	25			Grayson County Water Supply Project. See County Other cost.
Whitewright	30968000		C	968	652	91	Grayson	2	Red	Overdraft Woodbine Aquifer in 2000 (existing wells)	4c		C	91	2	9129	Woodbine Aquifer	$0	138	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (existing wells)

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Whitewright	30968000		C	968	652	91	Grayson	2	Red	Reallocate Woodbine Aquifer (existing wells)	4c		C	91	2	9129	Woodbine Aquifer	$0	0	67	63	0	0	0			Reallocate Woodbine Aquifer (existing wells)
Whitewright	30968000		C	968	652	91	Grayson	2	Red	Reallocate Trinity Aquifer (new well)	4c		C	91	2	9128	Trinity Aquifer	$577,000	0	121	121	0	0	0			Reallocate Trinity Aquifer (new well)
Whitewright	30968000		C	968	652	91	Grayson	2	Red	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	211	211	211	211	211			Grayson County Water Supply Project. See County Other cost.
County-Other	30996091		C	996	757	91	Grayson	2	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	91	2	9128	Trinity Aquifer	$0	795	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)
County-Other	30996091		C	996	757	91	Grayson	2	Red	Overdraft Trinity Aquifer in 2000 (new well)	4c		C	91	2	9128	Trinity Aquifer	$835,000	805	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (new well)
County-Other	30996091		C	996	757	91	Grayson	2	Red	Reallocate Trinity Aquifer (new well)	4c		C	91	2	9128	Trinity Aquifer		0	805	805	805	0	0			Reallocate Trinity Aquifer (new well)
County-Other	30996091		C	996	757	91	Grayson	8	Trinity	Overdraft Woodbine Aquifer in 2000 (existing wells)	4c		C	91	2	9129	Woodbine Aquifer	$0	356	0	0	0	0	0			Overdraft Woodbine Aquifer in 2000 (existing wells)
County-Other	30996091		C	996	757	91	Grayson	2	Red	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma	$94,316,000	0	970	970	970	970	970			Grayson County Water Supply Project.
County-Other	30996091		C	996	757	91	Grayson	8	Trinity	Grayson County Water Supply Project	4c		C	91	2	02230P	Lake Texoma		0	981	981	981	981	981			Grayson County Water Supply Project. See County Other cost.
Manufacturing	31001091		C	1001	1001	91	Grayson	2	Red	Purchase from Sherman	4c		C	91	2	02230P	Lake Texoma	$0	988	1,508	1,868	2,331	2,946	3,795			Assumed to be from Sherman.
Manufacturing	31001091		C	1001	1001	91	Grayson	8	Trinity	Purchase from Sherman	4c		C	91	2	02230P	Lake Texoma	$0	4	5	5	6	7	8			Assumed to be from Sherman.

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Mining	31003091		C	1003	1003	91	Grayson	2	Red	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	91	2	9128	Trinity Aquifer	$0	101	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)
Mining	31003091		C	1003	1003	91	Grayson	2	Red	Overdraft Trinity Aquifer in 2000 (new well)	4c		C	91	2	9128	Trinity Aquifer	$519,000	242	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (1 new well)
Mining	31003091		C	1003	1003	91	Grayson	2	Red	Reallocate Trinity Aquifer (existing wells)	4c		C	91	2	9128	Trinity Aquifer	$0	0	57	57	57	57	57			Reallocate Trinity Aquifer (existing wells)
Mining	31003091		C	1003	1003	91	Grayson	2	Red	Add new well in Trinity Aquifer & reallocate (new wells)	4c		C	91	2	9128	Trinity Aquifer	$513,000	0	483	483	483	483	483			Continue using new well from overdrafting; add additional new well in 2010. Reallocate Trinity Aquifer (new wells).
Mining	31003091		C	1003	1003	91	Grayson	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	91	8	9128	Trinity Aquifer	$0	208	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)
Mining	31003091		C	1003	1003	91	Grayson	8	Trinity	Overdraft Trinity Aquifer in 2000 (new well)	4c		C	91	8	9128	Trinity Aquifer	$214,000	81	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (new well)
Mining	31003091		C	1003	1003	91	Grayson	8	Trinity	Reallocate Trinity Aquifer (existing wells)	4c		C	91	8	9128	Trinity Aquifer	$0	0	125	125	125	125	125			Reallocate Trinity Aquifer (existing wells)
Mining	31003091		C	1003	1003	91	Grayson	8	Trinity	Reallocate Trinity Aquifer (new well)	4c		C	91	8	9128	Trinity Aquifer	$0	0	81	81	81	81	81			Reallocate Trinity Aquifer (new well)
Irrigation	31004091		C	1004	1004	91	Grayson	8	Trinity	Reallocate Trinity Aquifer (existing wells)	4c		C	91	8	9128	Trinity Aquifer	$0	0	48	128	360	448	542			Reallocate Trinity Aquifer (existing wells)

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Malakoff	30557000		C	557	383	107	Henderson	8	Trinity	Add new well in Carrizo-Wilcox Aquifer & overdraft in 2000	4c		C	107	8	10710	Carrizo-Wilcox	$281,000	9	0	0	0	0	0			Add new well & overdraft Carrizo-Wilcox Aquifer in 2000
Malakoff	30557000		C	557	383	107	Henderson	8	Trinity	Pipeline to TRWD to begin purchasing water from TRWD (potential contract 560 ac-ft/yr)	4c	190	C				Pipeline to TRWD System	$7,809,000	0	560	560	563	563	563			Pipeline to connect to TRWD for potential contract of 560 ac-ft/yr.
Combine	30193000	P	C	193	766	129	Kaufman	8	Trinity	Continue purchasing water from Combine WSC (DWU)	4e1	206800					Dallas System		37	119	60	0	0	7			Current Combine WSC (DWU) customer. See DWU costs.
Crandall	30210000		C	210	767	129	Kaufman	8	Trinity	Continue purchasing water from Kaufman Four One (NTMWD)	4e3	160					NTMWD System		0	126	292	451	433	566			Current Kaufman Four One(NTMWD) customer. See NTMWD costs.
Dallas	30227000	P	C	227	151	129	Kaufman	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		1	2	2	0	0	1			Current DWU customer. See DWU costs.
Forney	30304000		C	304	207	129	Kaufman	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	494	1,535	2,723	3,123	4,626			Current NTMWD customer. See NTMWD costs.
Kaufman	30459000		C	459	313	129	Kaufman	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	291	692	1,002	931	1,170			Current NTMWD customer. See NTMWD costs.
Kemp	30463000		C	463	711	129	Kaufman	8	Trinity	Water Treatment Plant Expansion in 2010	4o						Water Treatment Plant Expansion in 2010	$2,813,000	0	0	0	0	0	0			Water Treatment Plant Expansion in 2010.
Oak Grove	30646000		C	646	928	129	Kaufman	8	Trinity	Continue purchasing water from Kaufman (NTMWD)	4e3	160					NTMWD System		0	27	56	73	65	77			Current Kaufman (NTMWD) customer. See NTMWD costs.

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Terrell	30887000		C	887	599	129	Kaufman	8-Jan	Trinity	Water Treatment Plant Expansion in 2010	4o						Water Treatment Plant Expansion in 2010	$2,813,000	0	0	0	0	0	0			Water Treatment Plant Expansion in 2010.
Terrell	30887000		C	887	599	129	Kaufman	8-Jan	Trinity	Water Treatment Plant Expansion in 2020	4o						Water Treatment Plant Expansion in 2020	$2,813,000	0	0	0	0	0	0			Water Treatment Plant Expansion in 2020.
Terrell	30887000		C	887	599	129	Kaufman	8-Jan	Trinity	Water Treatment Plant Expansion in 2050	4o						Water Treatment Plant Expansion in 2050	$2,813,000	0	0	0	0	0	0			Water Treatment Plant Expansion in 2050.
County-Other	30996129		C	996	757	129	Kaufman	5-Jan	Sabine	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	17	53	88	89	109			Current NTMWD customer. See NTMWD costs.
County-Other	30996129		C	996	757	129	Kaufman	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	759	2,038	3,031	2,815	3,394			Current NTMWD customer. See NTMWD costs.
County-Other	30996129		C	996	757	129	Kaufman	8	Trinity	Terrell (Lake Tawakoni)	4c						Lake Terrell	$0	0	60	155	230	295	330			Terrell (Lake Terrell). Infrastucture is in place.
Manufacturing	31001129		C	1001	1001	129	Kaufman	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	30	86	121	115	153			Current NTMWD customer. See NTMWD costs.
Manufacturing	31001129		C	1001	1001	129	Kaufman	8	Trinity	Terrell (Lake Tawakoni)	4c						Lake Terrell	$0	0	5	30	45	65	75			Terrell (Lake Terrell). Infrastucture is in place.
Steam Electric Power	31002129		C	1002	1002	129	Kaufman	8	Trinity	Reuse from Garland	4b						Garland Reuse	$18,497,000	15,694	15,694	15,694	15,694	15,694	15,694			Indirect Reuse from Garland (14 MGD)
Mining	31003129		C	1003	1003	129	Kaufman	8	Trinity	Add new well & overdraft Woodbine Aquifer in 2000	4c		C	129	8	12929	Woodbine Aquifer	$163,000	21	0	0	0	0	0			Add new well & overdraft Woodbine Aquifer in 2000
Mining	31003129		C	1003	1003	129	Kaufman	8	Trinity	Begin purchasing water from TRWD	4e2	190					TRWD System		0	79	74	105	97	135			New TRWD customer. See TRWD costs.

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Irrigation	31004129		C	1004	1004	129	Kaufman	8	Trinity	Additional Irrigation Local Supply	4c		C		8	129996	Irrigation Local Supply	$0	397	377	357	338	319	301			Additional Irrigation Local Supply. Assumed unit cost of water.
Corsicana	30207000		C	207	137	175	Navarro	8	Trinity	Water treatment plant expansion in 2020	4o		C		8		Water Treatment Plant Expansion in 2020	$2,813,000	0	0	0	0	0	0			Water treatment plant expansion in 2020
Corsicana	30207000		C	207	137	175	Navarro	8	Trinity	Water treatment plant expansion in 2040	4o		C		8		Water Treatment Plant Expansion in 2040	$2,813,000	0	0	0	0	0	0			Water treatment plant expansion in 2040
Mining	31003175		C	1003	1003	175	Navarro	8	Trinity	Add new well in Carrizo-Wilcox Aquifer	4c		C	175	8	17510	Carrizo-Wilcox Aquifer	$44,000	0	0	50	50	50	50			Add new well in Carrizo-Wilcox Aquifer
Aledo	30009000		C	9	674	184	Parker	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	184	8	18428	Trinity Aquifer	$0	17	0	0	0	0	0			Overdraft aquifer. Current well can pump additional water.
Aledo	30009000		C	9	674	184	Parker	8	Trinity	Begin purchasing TRWD water thru Weatherford	4e2	190					TRWD System		0	394	594	1,058	938	1,059			New TRWD (Weatherford) customer. See TRWD costs.
Annetta	30030000		C	30	814	184	Parker	8	Trinity	Add new well & overdraft Other Aaquifer thru 2010.	4c		C	184	8	18428	Trinity Aquifer	$374,000	18	0	0	0	0	0			Add new well & overdraft other aquifer in 2000.
Annetta	30030000		C	30	814	184	Parker	8	Trinity	Begin purchasing TRWD water thru Weatherford	4e2	190					TRWD System		0	250	364	638	703	1,157			New TRWD (Weatherford) customer. See TRWD and Weatherford costs.
Azle	30046000	P	C	46	31	184	Parker	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	51	37	87	106	159			Current TRWD customer. Additional supply from TRWD. See TRWD costs.

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Briar	30110000	P	C	110	682	184	Parker	8	Trinity	Continue purchasing water from Community WSC (TRWD)	4e2	190					TRWD System		0	15	11	26	33	52			Current Community WSC (TRWD) customer. Additional supply from Community WSC (TRWD). See TRWD costs.
Hudson Oaks	30422000		C	422	883	184	Parker	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	184	8	18428	Trinity Aquifer	$0	39	0	0	0	0	0			Overdraft Trinity Aquifer in 2000 (existing wells)
Hudson Oaks	30422000		C	422	883	184	Parker	8	Trinity	Begin purchasing water from TRWD	4e2	190					TRWD System		0	731	1,401	2,848	2,108	2,379			New TRWD customer. See TRWD costs.
Reno	30744000		C	744	739	184	Parker	8	Trinity	Continue purchasing water from Springtown (TRWD)	4e2	190					TRWD System		0	31	34	87	114	161			Current Springtown (TRWD) customer. Additional supply from Springtown (TRWD). See TRWD costs.
Springtown	30853000		C	853	574	184	Parker	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	72	58	138	178	266			Current TRWD customer. Additional supply from TRWD. See TRWD costs.
Springtown	30853000		C	853	574	184	Parker	8	Trinity	Water Treatment Plant Expansion in 2010	4o						Water Treatment Plant Expansion in 2010	$2,813,000	0	0	0	0	0	0			Water Treatment Plant Expansion in 2010
Springtown	30853000		C	853	574	184	Parker	8	Trinity	Water Treatment Plant Expansion in 2030	4o						Water Treatment Plant Expansion in 2030	$2,813,000	0	0	0	0	0	0			Water Treatment Plant Expansion in 2030
Weatherford	30944000		C	944	634	184	Parker	8	Trinity	Overdraft Lake Weatherford in 2000	4c		C		8	08050	Lake Weatherford	$0	1,972	0	0	0	0	0			Overdraft Lake Weatherford in 2000

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Weatherford	30944000		C	944	634	184	Parker	8	Trinity	Construct pipeline to Lake Benbrook (TRWD) by 2010	4e2	190					TRWD System		0	7,701	7,500	11,894	12,609	19,938			Current TRWD customer. See TRWD costs.
Weatherford	30944000		C	944	634	184	Parker	12	Brazos	Overdraft Lake Weatherford in 2000	4c		C		8	08050	Lake Weatherford	$0	93	0	0	0	0	0			Overdraft Lake Weatherford in 2000
Weatherford	30944000		C	944	634	184	Parker	12	Brazos	Construct pipeline to Lake Benbrook (TRWD) by 2010	4e2	190					TRWD System		0	381	378	611	652	1,040			Current TRWD customer. See TRWD costs.
Weatherford	30944000		C	944	634	184	Parker	8	Trinity	Pipeline from Lake Benbrook	4o						Pipeline from Lake Benbrook	$9,000,000	0	0	0	0	0	0			Pipeline from Lake Benbrook
Weatherford	30944000		C	944	634	184	Parker	8	Trinity	Parallel Pipeline from Lake Benbrook	4o						Second Pipeline from Lake Benbrook	$13,375,000	0	0	0	0	0	0			Parallel Pipeline from Lake Benbrook
Weatherford	30944000		C	944	634	184	Parker	8	Trinity	Treated water transmission lines to Southest Parker County Phase I	4o						Treated Water Transmission Lines to Southeast Parker County Phase I	$3,582,000	0	0	0	0	0	0			Treated water transmission lines to Southest Parker County Phase I
Weatherford	30944000		C	944	634	184	Parker	8	Trinity	Treated water transmission lines to Southest Parker County Phase II	4o						Treated Water Transmission Lines to Southeast Parker County Phase II	$3,582,000	0	0	0	0	0	0			Treated water transmission lines to Southest Parker County Phase II
Weatherford	30944000		C	944	634	184	Parker	8	Trinity	Water Treatment Plant Expansion	4o						Water Treatment Plant Expansion	$27,221,000	0	0	0	0	0	0			Water Treatment Plant Expansion
Willow Park	30973000		C	973	756	184	Parker	8	Trinity	Overdraft Trinity Aquifer in 2000	4c		C	184	8	18428	Trinity Aquifer	$0	36	0	0	0	0	0			Overdraft Trinity Aquifer in 2000. Existing wells

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										(existing wells)																	can meet demands.
Willow Park	30973000		C	973	756	184	Parker	8	Trinity	Begin purchasing TRWD water thru Weatherford	4e2	190					TRWD System		0	787	1,188	2,110	2,319	3,813			New TRWD (Weatherford) customer. See Weatherford and TRWD costs.
County-Other	30996184		C	996	757	184	Parker	8	Trinity	Add new well & overdraft Trinity Aquifer through 2010.	4c		C	184	8	18428	Trinity Aquifer	$3,737,000	616	0	0	0	0	0			Add new well & overdraft Trinity Aquifer through 2010.
County-Other	30996184		C	996	757	184	Parker	8	Trinity	Continue purchasing water from Walnut Creek SUD (TRWD)	4e2	190					TRWD System		0	4,295	2,794	4,425	2,621	1,041			Increase supply from Weatherford (TRWD). See Weatherford and TRWD costs.
County-Other	30996184		C	996	757	184	Parker	12	Brazos	Add new well & overdraft Trinity Aquifer through 2010.	4c		C	184	12	18428	Trinity Aquifer	$935,000	272	0	0	0	0	0			Add new well & overdraft Trinity Aquifer through 2010.
County-Other	30996184		C	996	757	184	Parker	12	Brazos	Continue purchasing water from Walnut Creek SUD (TRWD)	4e2	190					TRWD System		0	2,155	1,399	2,191	1,093	0			Increase supply from Weatherford (TRWD). See Weatherford and TRWD costs.
Manufacturing	31001184		C	1001	1001	184	Parker	8	Trinity	Surface water from Lake Benbrook (TRWD).	4j	190					TRWD System		0	46	94	175	183	259			Surface water from Weatherford (TRWD). See TRWD costs.
Manufacturing	31001184		C	1001	1001	184	Parker	12	Brazos	Add new well & overdraft Trinity Aquifer through 2010.	4c		C	184	12	18428	Trinity Aquifer	$49,000	21	0	0	0	0	0			Add new well & overdraft Trinity Aquifer through 2010.

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Manufacturing	31001184		C	1001	1001	184	Parker	12	Brazos	Begin purchasing water from TRWD (thru Weatherford)	4e2	190					TRWD System		0	85	74	111	107	142			New TRWD (thru Weatherford) customer. See TRWD and Weatherford cost.
Steam Electric Power	31002184		C	1002	1002	184	Parker	8	Trinity	Weatherford reuse (pipeline from Benbrook)	4b						Weatherford Reuse	$1,947,000	0	3,000	3,000	3,000	3,000	3,000			Weatherford indirect reuse (pipeline from Benrbook)
Steam Electric Power	31002184		C	1002	1002	184	Parker	8	Trinity	Weatherford indirect reuse (pipeline from Benbrook)	4b						Weatherford Reuse	$1,947,000	0	0	0	3,000	3,000	3,000			Weatherford reuse (parallel pipeline from Benrbook)
Steam Electric Power	31002184		C	1002	1002	184	Parker	8	Trinity	Begin purchasing water from TRWD (pipeline from Benbrook)	4j	190					Pipeline from Lake Benbrook	$5,821,000	0	3,000	3,000	3,000	3,000	3,000			TRWD (pipeline from Benbrook)
Steam Electric Power	31002184		C	1002	1002	184	Parker	8	Trinity	Begin purchasing water from TRWD (pipeline from Benbrook)	4j	190					Pipeline from Lake Benbrook	$5,821,000	0	0	0	3,000	3,000	3,000			TRWD(pipeline from Benbrook)
Mining	31003184		C	1003	1003	184	Parker	8	Trinity	Add diversions from Other Local Supply	4o		C		8	08999	Other Local Supply	$0	13	15	20	30	30	40			Add diversions from Other Local Supply.
Mining	31003184		C	1003	1003	184	Parker	12	Brazos	Increase diversions from Other local Supply	4c		C		12	12999	Other Local Supply	$0	1,526	1,730	2,020	2,305	2,625	2,990			Increase diversions from Other local Supply.
Dallas	30227000	P	C	227	151	199	Rockwall	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		3	7	2	0	0	2			Current DWU customer. See DWU costs.
Heath	30388000		C	388	702	199	Rockwall	8	Trinity	Continue purchasing water from RCH WSC (thru Rockwall from	4e3	160					NTMWD System		0	239	653	1,119	1,248	1,894			Current RCH WSC (thru Rockwall from NTMWD) customer. See NTMWD costs.

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										NTMWD)																	
Rockwall	30766000		C	766	513	199	Rockwall	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	2,008	5,941	9,840	10,822	15,414			Current NTMWD customer. See NTMWD costs.
Rowlett	30777000	P	C	777	521	199	Rockwall	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	549	1,515	2,655	3,062	4,809			Current NTMWD customer. See NTMWD costs.
Royse City	30779000	P	C	779	522	199	Rockwall	5	Sabine	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	345	945	2,612	2,673	3,637			Current NTMWD customer. See NTMWD costs.
Wylie	30991000	P	C	991	669	199	Rockwall	8	Trinity	Continue purchasing water from NTMWD	4e3	160					NTMWD System		0	3	4	7	6	9			Current NTMWD customer. See NTMWD costs.
County-Other	30996199		C	996	757	199	Rockwall	5	Sabine	Increase supply from NTMWD	4e3	160					NTMWD System		0	0	0	0	59	276			Increase supply from NTMWD. See NTMWD costs.
County-Other	30996199		C	996	757	199	Rockwall	8	Trinity	Increase supply from NTMWD	4e3	160					NTMWD System		0	0	0	0	0	324			Increase supply from NTMWD. See NTMWD costs.
Manufacturing	31001199		C	1001	1001	199	Rockwall	8	Trinity	Increase supply from NTMWD	4e3	160					NTMWD System		0	2	4	3	2	4			Increase supply from NTMWD. See NTMWD costs.
Steam Electric Power	31002199		C	1002	1002	199	Rockwall	5	Sabine	NTMWD inidrect reuse	4b	160	C	199			Reuse	$4,795,000	0	6,000	6,000	6,000	6,000	6,000			NTMWD indirect reuse
Arlington	30037000		C	37	25	220	Tarrant	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	9,035	4,320	12,926	15,388	23,474			Current TRWD customer. Increase supply from TRWD. See TRWD costs.
Arlington	30037000		C	37	25	220	Tarrant	8	Trinity	Water Treatment Plant Expansion	4o						Water Treatment Plant Expansion by 2010	$25,665,000	0	0	0	0	0	0			Water Treatment Plant Expansion
Azle	30046000	P	C	46	31	220	Tarrant	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	268	213	480	597	916			Current TRWD customer. Increase supply from TRWD. See TRWD

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																											costs.
Bedford	30067000		C	67	44	220	Tarrant	8	Trinity	Continue purchasing water from TRA (TRWD)	4e2	171					TRA System		0	1,439	1,355	2,164	2,925	3,515			Current TRA customer. See TRA costs.
Benbrook	30075000		C	75	51	220	Tarrant	8	Trinity	Water Treatment Plant Expansion in 2020	4o						Water Treatment Plant Expansion by 2020	$2,813,000	0	0	0	0	0	0			Water Treatment Plant Expansion in 2020
Benbrook	30075000		C	75	51	220	Tarrant	8	Trinity	Water Treatment Plant Expansion in 2040	4o						Water Treatment Plant Expansion by 2040	$1,406,000	0	0	0	0	0	0			Water Treatment Plant Expansion in 2040
Blue Mound	30093000		C	93	62	220	Tarrant	8	Trinity	Continue purchasing water from Tecon (TRWD)	4e2	190					TRWD System		0	38	19	55	67	97			Current Tecon (TRWD) customer. Increase supply from TRWD. See TRWD costs.
Briar	30110000	P	C	110	682	220	Tarrant	8	Trinity	Continue purchasing water from Community WSC (TRWD)	4e2	190					TRWD System		0	90	67	141	169	258			Current Community WSC (TRWD) customer. Additional supply from Community WSC (TRWD). See TRWD costs.
Burleson	30131000		C	131	87	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Burleson	30131000		C	131	87	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	51	786	906	673	764			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Colleyville	30186000		C	186	125	220	Tarrant	8	Trinity	Continue purchasing water from TRA (TRWD)	4e2	171					TRA System		0	7,039	8,118	8,470	8,997	9,384			Current TRA customer. See TRA costs.

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Crowley	30218000		C	218	145	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Crowley	30218000		C	218	145	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	141	2,240	2,775	2,312	2,958			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Dalworthington Gard.	30228000		C	228	692	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract
Dalworthington Gard.	30228000		C	228	692	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	102	1,474	1,691	1,370	1,704			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Edgecliff	30267000		C	267	180	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Edgecliff	30267000		C	267	180	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	72	890	939	677	750			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Euless	30285000		C	285	193	220	Tarrant	8	Trinity	Continue purchasing water from TRA (TRWD)	4e2	171					TRA System		0	5,663	7,100	8,323	9,650	11,114			Current TRA customer. See TRA costs.
Everman	30287000		C	287	194	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Everman	30287000		C	287	194	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	84	1,019	1,045	735	788			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Forest Hill	30303000		C	303	206	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Forest Hill	30303000		C	303	206	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	207	2,947	3,311	2,355	2,575			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Fort Worth	30311000		C	311	213	220	Tarrant	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	15,539	9,344	23,379	28,867	43,914			Current TRWD customer. Increase supply from TRWD. See TRWD

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																											costs.
Grand Prairie	30353000	P	C	353	245	220	Tarrant	8	Trinity	Renew DWU contract	4e1	206800					Dallas System	$0	0	0	0	0	0	0			Renew DWU Contract.
Grand Prairie	30353000	P	C	353	245	220	Tarrant	8	Trinity	Continue purchasing water from DWU	4e1	206800					Dallas System		609	1,957	11,125	9,218	9,098	9,491			Current DWU customer. Additional supply from DWU. See DWU costs.
Grand Prairie	30353000	P	C	353	245	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth	4e2	298900					Fort Worth System		0	28	561	561	561	561			Current Fort Worth customer. Contract for 561 AF/Y. See Fort Worth and TRWD costs.
Grapevine	30360000	P	C	360	249	220	Tarrant	8	Trinity	Continue purchasing water from TRA (TRWD)	4e2	171					TRA System		0	348	320	703	1,067	1,385			Current TRA customer. See TRA costs.
Grapevine	30360000	P	C	360	249	220	Tarrant	8	Trinity	Direct reuse	4b						Direct reuse	$4,003,000	0	1,495	1,490	1,490	1,485	1,485			Direct reuse
Grapevine	30360000	P	C	360	249	220	Tarrant	8	Trinity	Begin purchasing water from DWU	4e1	206800					Dallas System		0	1,997	1,995	1,994	1,991	1,990			New DWU customer. See DWU costs.
Haltom City	30375000		C	375	261	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Haltom City	30375000		C	375	261	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	924	10,876	11,628	8,440	9,440			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Haslet	30384000		C	384	879	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Haslet	30384000		C	384	879	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	31	526	712	554	662			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Hurst	30428000		C	428	293	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.

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Hurst	30428000		C	428	293	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	844	11,139	11,532	8,439	9,432			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Keller	30461000		C	461	315	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Keller	30461000		C	461	315	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD). NETCREW	4e2	298900					Fort Worth System		0	15,480	11,524	13,294	9,937	11,411			Current Fort Worth (TRWD) customer. NETCREW. See Fort Worth and TRWD costs.
Kennedale	30465000		C	465	318	220	Tarrant	8	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	4c		C	220	8	22028	Trinity Aquifer	$1,319,000	1,018	0	0	0	0	0			Add new well & overdraft Trinity Aquifer in 2000.
Kennedale	30465000		C	465	318	220	Tarrant	8	Trinity	Begin purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	2,174	1,635	1,991	1,813	2,358			New Fort Worth customer. See Fort Worth and TRWD costs.
Kennedale	30465000		C	465	318	220	Tarrant	8	Trinity	Begin purchasing water from Arlington (Fort Worth)	4e2	298900					City of Arlington		0	2,174	1,635	1,991	1,813	2,358			New Arlington (thru FW thru TRWD) customer. See Arlington, Fort Worth, and TRWD costs.
Lake Worth Village	30501000		C	501	341	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Lake Worth Village	30501000		C	501	341	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	95	1,286	1,427	1,057	1,194			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Mansfield	30559000	P	C	559	384	220	Tarrant	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	826	488	1,675	2,590	4,657			Current TRWD customer. Increase supply from TRWD. See TRWD costs.

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Mansfield	30559000	P	C	559	384	220	Tarrant	8	Trinity	Water Treatment Plant Expansion by 2010	4o						Water Treatment Plant Expansion by 2010	$14,063,000	0	0	0	0	0	0			Water Treatment Plant Expansion by 2010
Mansfield	30559000	P	C	559	384	220	Tarrant	8	Trinity	Water Treatment Plant Expansion by 2040	4o						Water Treatment Plant Expansion by 2040	$15,469,000	0	0	0	0	0	0			Water Treatment Plant Expansion by 2040
North Richland Hills	30642000		C	642	435	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
North Richland Hills	30642000		C	642	435	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	714	11,466	14,452	12,379	16,090			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
North Richland Hills	30642000		C	642	435	220	Tarrant	8	Trinity	Continue purchasing water from TRA (TRWD)	4e2	171					TRA System		0	273	113	331	597	727			Current TRA customer. See TRA costs.
Pantego	30677000		C	677	454	220	Tarrant	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	220	8	22028	Trinity Aquifer	$0	400	0	0	0	0	0			Overdraft aquifer in 2000. Current wells system can pump additional supply needed.
Pantego	30677000		C	677	454	220	Tarrant	8	Trinity	Begin purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	517	342	357	257	291			New Fort Worth customer. See Fort Worth and TRWD costs.
Pantego	30677000		C	677	454	220	Tarrant	8	Trinity	Begin purchasin water from Arlington (Fort Worth)	4e2	298900					City of Arlington		0	517	342	357	257	291			New Arlington (thru FW thru TRWD) customer. See Arlington, Fort Worth, and TRWD costs.
Pelican Bay	30688000		C	688	795	220	Tarrant	8	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	4c		C	220	8	22028	Trinity Aquifer	$655,000	167	0	0	0	0	0			Add new well & overdraft Trinity Aquifer in 2000
Pelican Bay	30688000		C	688	795	220	Tarrant	8	Trinity	Reallocate Trinity Aquifer (new well)	4c		C	220	8	22028	Trinity Aquifer		0	215	240	240	240	240			Reallocate Trinity Aquifer (2010-2050) (new well)

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Pelican Bay	30688000		C	688	795	220	Tarrant	8	Trinity	Reallocate Trinity Aquifer (existing well)	4c		C	220	8	22028	Trinity Aquifer	$0	0	0	35	85	120	160			Reallocate Trinity Aquifer (existing wells)
Richland Hills	30748000		C	748	499	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Richland Hills	30748000		C	748	499	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	166	2,505	2,992	2,661	3,634			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
River Oaks	30756000		C	756	505	220	Tarrant	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	146	79	160	185	266			Current TRWD customer. Increase supply from TRWD. See TRWD costs.
Saginaw	30785000		C	785	527	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Saginaw	30785000		C	785	527	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	348	4,796	5,317	4,213	5,095			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Sansom Park Village	30802000		C	802	539	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Sansom Park Village	30802000		C	802	539	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	72	827	872	626	693			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Southlake	30846000	P	C	846	570	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Southlake	30846000	P	C	846	570	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD). NETCREW	4e2	298900					Fort Worth System		0	19,082	14,425	18,618	16,454	22,270			Current Fort Worth (TRWD) customer. NETCREW. See Fort Worth and TRWD costs.
Watauga	30942000		C	942	632	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.

A	B		C	D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
Water User Group Name	**Water User Group Identifier**		**RWPG Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Name of Water Manage-ment Strategy**	**Type of Water Supply**	**Major Water Provider Number (TWDB Alpha Number)**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
Watauga	30942000		C	942	632	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	517	7,003	7,889	6,102	6,741			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Westworth Village	30959000		C	959	644	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Westworth Village	30959000		C	959	644	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	46	504	521	369	401			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
White Settlement	30964000		C	964	651	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
White Settlement	30964000		C	964	651	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	281	3,219	3,367	2,441	2,678			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
County-Other	30996220		C	996	757	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
County-Other	30996220		C	996	757	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	0	8,130	15,018	22,965	24,407			Current Fort Worth (TRWD) customer. NETCREW. See Fort Worth and TRWD costs.
County-Other	30996220		C	996	757	220	Tarrant	8	Trinity	TRA Indirect Reuse (Denton Creek Plant)	4b	171	C		8		TRA Reuse	$1,326,000	0	1,000	2,000	2,500	2,500	2,500			TRA Indirect Reuse (Denton Creek Plant)
County-Other	30996220		C	996	757	220	Tarrant	8	Trinity	Northeast Tarrant County Regional Water System (from Fort Worth to Keller, Roanoke, Southlake, Trophy Club, Westlake/Lake Turner	4e2	298900					Northeast Tarrant County Regional Water System	$9,824,000	0	0	0	0	0	0			Northeast Tarrant County Regional Water System (from Fort Worth to Keller, Roanoke, Southlake, Trophy Club, Westlake/Lake Turner MUDs).

A	B		C	D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
Water User Group Name	**Water User Group Identifier**		**RWPG Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Name of Water Manage-ment Strategy**	**Type of Water Supply**	**Major Water Provider Number (TWDB Alpha Number)**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
										MUDs)																	
Manufacturing	31001220		C	1001	1001	220	Tarrant	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	3,300	2,377	7,628	10,108	16,980			Current TRWD customer. See TRWD costs.
Manufacturing	31001220		C	1001	1001	220	Tarrant	8	Trinity	Renew Fort Worth Contract	4e2	298900					Fort Worth System	$0	0	0	0	0	0	0			Renew Fort Worth contract.
Manufacturing	31001220		C	1001	1001	220	Tarrant	8	Trinity	Continue purchasing water from Fort Worth (TRWD)	4e2	298900					Fort Worth System		0	1,479	811	2,796	4,056	7,297			Current Fort Worth (TRWD) customer. See Fort Worth and TRWD costs.
Steam Electric Power	31002220		C	1002	1002	220	Tarrant	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	1,025	661	1,663	2,316	3,393			Current TRWD customer. Increase supply from TRWD. See TRWD costs.
Steam Electric Power	31002220		C	1002	1002	220	Tarrant	8	Trinity	Fort Worth reuse	4b	298900					Fort Worth Reuse	$2,909,000	0	500	500	1,100	2,000	2,600			Fort Worth direct reuse. See Fort Worth costs above.
Alvord	30019000		C	19	810	249	Wise	8	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	4c		C	249	8	24928	Trinity Aquifer	$177,000	14	0	0	0	0	0			Add new well & overdraft Trinity Aquifer in 2000
Alvord	30019000		C	19	810	249	Wise	8	Trinity	Reallocate Trinity Aquifer (new well)	4c		C	249	8	24928	Trinity Aquifer		0	20	20	40	50	80			Reallocate Trinity Aquifer (new well)
Aurora	30044000		C	44	816	249	Wise	8	Trinity	Add new well & overdraft Trinity Aquifer thru 2000.	4c		C	249	8	24928	Trinity Aquifer	$177,000	32	0	0	0	0	0			Add new well & overdraft Trinity aquifer thru 2000.
Aurora	30044000		C	44	816	249	Wise	8	Trinity	Begin purchasing water from Walnut Creek SUD	4e2	190					TRWD System		0	278	230	283	202	231			New Walnut Creek SUD (TRWD) customer. See TRWD costs.

A	B		C	D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
Water User Group Name	**Water User Group Identifier**		**RWPG Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Name of Water Manage-ment Strategy**	**Type of Water Supply**	**Major Water Provider Number (TWDB Alpha Number)**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
										(TRWD)																	
Boyd	30103000		C	103	760	249	Wise	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	249	8	24928	Trinity Aquifer	$0	58	0	0	0	0	0			Overdraft Trinity Aquifer in 2000. Existing wells can meet this demand.
Boyd	30103000		C	103	760	249	Wise	8	Trinity	Begin purchasing water from Walnut Creek SUD (TRWD)	4e2	190					TRWD System		0	571	500	637	449	500			New Walnut Creek SUD (TRWD) customer. See TRWD costs.
Briar	30110000	P	C	110	682	249	Wise	8	Trinity	Continue purchasing water from Community WSC (TRWD)	4e2	190					TRWD System		0	23	16	35	41	58			Current Community WSC (TRWD) customer. Additional supply from Community WSC (TRWD). See TRWD costs.
Bridgeport	30113000		C	113	76	249	Wise	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	105	64	177	228	360			Current TRWD customer. Increase supply from TRWD. See TRWD costs.
Bridgeport	30113000		C	113	76	249	Wise	8	Trinity	Water treatment plant expansion in 2000	4o						Water Treatment Plant Expansion in 2000	$2,813,000	0	0	0	0	0	0			Water treatment plant expansion in 2000
Bridgeport	30113000		C	113	76	249	Wise	8	Trinity	Water treatment plant expansion in 2030	4o						Water Treatment Plant Expansion in 2030	$2,813,000	0	0	0	0	0	0			Water treatment plant expansion in 2030
Chico	30163000		C	163	842	249	Wise	8	Trinity	Continue purchasing water from West Wise WSC (TRWD)	4e2	190					TRWD System		0	3	32	41	34	41			Current West Wise WSC (TRWD) customer. Increase supply from TRWD. See TRWD costs.

A	B		C	D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
Water User Group Name	**Water User Group Identifier**		**RWPG Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Name of Water Manage-ment Strategy**	**Type of Water Supply**	**Major Water Provider Number (TWDB Alpha Number)**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
Decatur	30235000		C	235	153	249	Wise	8	Trinity	Continue purchasing water from Wise County WSC (TRWD)	4e2	190					TRWD System		0	151	85	230	272	400			Current Wise County WSC (TRWD) customer. Increase supply from TRWD. See TRWD costs.
Decatur	30235000		C	235	153	249	Wise	8	Trinity	Water treatment plant expansion in 2010	4o						Water Treatment Plant Expansion in 2010	$2,813,000	0	0	0	0	0	0			Water treatment plant expansion in 2010
Decatur	30235000		C	235	153	249	Wise	8	Trinity	Water treatment plant expansion in 2050	4o						Water Treatment Plant Expansion in 2050	$2,813,000	0	0	0	0	0	0			Water treatment plant expansion in 2050
Newark	30635000		C	635	920	249	Wise	8	Trinity	Add new well & overdraft Trinity Aquifer in 2000.	4c		C	249	8	24928	Trinity Aquifer	$190,000	44	0	0	0	0	0			Add new well & overdraft Trinity Aquifer in 2000.
Newark	30635000		C	635	920	249	Wise	8	Trinity	Begin purchasing water from Walnut Creek SUD (TRWD)	4e2	190					TRWD System		0	358	293	354	280	343			New Walnut Creek SUD (TRWD) customer. See TRWD costs.
Rhome	30745000		C	745	946	249	Wise	8	Trinity	Overdraft Trinity Aquifer in 2000 (existing wells)	4c		C	249	8	24928	Trinity Aquifer	$0	33	0	0	0	0	0			Overdraft Trinity Aquifer in 2000. Existing wells can meet this demand.
Rhome	30745000		C	745	946	249	Wise	8	Trinity	Begin purchasing water from Walnut Creek SUD (TRWD)	4e2	190					TRWD System		0	301	225	285	232	285			New Walnut Creek SUD (TRWD) customer. See TRWD costs.
County-Other	30996249		C	996	757	249	Wise	8	Trinity	Continue purchasing water from TRWD	4e2	190					TRWD System		0	1,794	2,835	5,438	5,116	6,443			Current TRWD customer. Increase supply from TRWD. See TRWD costs.
County-Other	30996249		C	996	757	249	Wise	8	Trinity	Purchase water from UTRWD	4c		D		3		UTRWD (Chapman)		0	221	109	146	156	200			UTRWD (Lake Chapman). See UTRWD costs.

A	B		C	D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
Water User Group Name	**Water User Group Identifier**		**RWPG Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Name of Water Manage-ment Strategy**	**Type of Water Supply**	**Major Water Provider Number (TWDB Alpha Number)**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
										(Lake Chapman)																	
County-Other	30996249		C	996	757	249	Wise	8	Trinity	Purchase water from UTRWD (Reuse)	4b		D		3		UTRWD (Reuse)		0	70	108	146	155	199			UTRWD (Reuse). See UTRWD costs.
County-Other	30996249		C	996	757	249	Wise	8	Trinity	Water treatment plant expansion in 2000 Community WSC	4o						Water Treatment Plant Expansion in 2000	$2,813,000	0	0	0	0	0	0			Water treatment plant expansion in 2000 Community WSC
County-Other	30996249		C	996	757	249	Wise	8	Trinity	Water treatment plant expansion in 2020 Community WSC	4o						Water Treatment Plant Expansion in 2020	$2,813,000	0	0	0	0	0	0			Water treatment plant expansion in 2020 Community WSC
County-Other	30996249		C	996	757	249	Wise	8	Trinity	Water treatment plant expansion in 2010 Walnut Creek SUD	4o						Water Treatment Plant Expansion in 2010	$14,977,000	0	0	0	0	0	0			Water treatment plant expansion in 2010 Walnut Creek SUD
County-Other	30996249		C	996	757	249	Wise	8	Trinity	Water treatment plant expansion in 2020 Walnut Creek SUD	4o						Water Treatment Plant Expansion in 2020	$4,993,000	0	0	0	0	0	0			Water treatment plant expansion in 2020 Walnut Creek SUD
County-Other	30996249		C	996	757	249	Wise	8	Trinity	Water treatment plant expansion in 2030 Walnut Creek SUD	4o						Water Treatment Plant Expansion in 2030	$4,993,000	0	0	0	0	0	0			Water treatment plant expansion in 2030 Walnut Creek SUD
County-Other	30996249		C	996	757	249	Wise	8	Trinity	Water treatment plant expansion in 2040 Walnut Creek SUD	4o						Water Treatment Plant Expansion in 2040	$4,993,000	0	0	0	0	0	0			Water treatment plant expansion in 2040 Walnut Creek SUD

A	B		C	D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
Water User Group Name	**Water User Group Identifier**		**RWPG Letter**	**Sequence Number for Water User Group**	**City Number for Water User Group**	**County Number for Water User Group**	County Name	**Basin Number for Water User Group**	Basin Name	**Name of Water Manage-ment Strategy**	**Type of Water Supply**	**Major Water Provider Number (TWDB Alpha Number)**	**Regional Water Planning Group of Source**	**County Number of Source**	**Basin Number of Source**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
County-Other	30996249		C	996	757	249	Wise	8	Trinity	Water treatment plant expansion in 2050 Walnut Creek SUD	4o						Water Treatment Plant Expansion in 2050	$4,993,000	0	0	0	0	0	0			Water treatment plant expansion in 2050 Walnut Creek SUD
Steam Electric Power	31002249		C	1002	1002	249	Wise	8	Trinity	TRWD contract for 4,256 AF/Y with Duke	4e2	190					TRWD System	$7,918,000	0	4,256	4,256	0	0	0			TRWD contract for 4,256 AF/Y with Duke
Steam Electric Power	31002249		C	1002	1002	249	Wise	8	Trinity	Renew Duke Contract with TRWD	4e2	190					TRWD System		0	0	0	4,256	4,256	4,256			Renew Duke Contract with TRWD
Steam Electric Power	31002249		C	1002	1002	249	Wise	8	Trinity	TRWD contract for 3,548 AF/Y with Tractebel	4e2	190					TRWD System	$7,027,000	0	3,548	3,548	0	0	0			TRWD contract for 3,548 AF/Y with Tractebel
Steam Electric Power	31002249		C	1002	1002	249	Wise	8	Trinity	Renew Tractebel Contract with TRWD	4e2	190					TRWD System		0	0	0	3,548	3,548	3,548			Renew Tractebel Contract with TRWD
Steam Electric Power	31002249		C	1002	1002	249	Wise	8	Trinity	Purchase water from TRWD	4e2	190					TRWD System	$6,793,000	0	3,396	3,396	3,396	3,396	3,396			Possible additional supply from TRWD
Notes:																											
Titles in **BOLD** are the columns required by TWDB																											
* UTRWD's present contract with DWU is limited to a total of 10 MGD to UTRWD for cities not specifically named in the contract. DWU has made no commitment for future service to cities not specifically named in the contract, and future serve will require future city council action.																											

APPENDIX U

TEXAS WATER DEVELOPMENT BOARD TABLE 13
RECOMMENDED MANAGEMENT STRATEGIES
BY MAJOR WATER PROVIDER

APPENDIX U
TEXAS WATER DEVELOPMENT BOARD TABLE 13
RECOMMENDED MANAGEMENT STRATEGIES
BY MAJOR WATER PROVIDER

Introduction

One of the tables the Texas Water Development Board requires in the development of regional water plans is TWDB Table 13, which shows the recommended strategies for meeting water shortages for each Major Water Provider (MWP). The TWDB requires that the table include the following information [56]:

A. Major Water Provider Name
B. Major Water Provider Number (TWDB Alpha Number)
C. Basin Number (see key before TWDB Table 13)
D. Type of Water Supply (see key before TWDB Table 12)
E. Regional Water Planning Group where Source is Located
F. County Number of Source (see key to counties before TWDB Table 12)
G. Basin Number of Source (see key before TWDB Table 12)
H. Name of Water Management Strategy
I. Specific Source Identifier (see key before TWDB Table 12)
J. Specific Source Name
K. Total Capital Cost (1999 Second Quarter Dollars)
L-Q. Total Supply Available from Each Strategy During the Drought of Record Conditions for the Years 2000-2050
R. Exception from Meeting Needs (Due to (a) no water management strategy being feasible or (b) political subdivision that provides water supply has not participated in the regional water planning effort)
S. Scenario Number for Meeting Long-Term Needs. Leave blank if only one scenario is considered in TWDB Table 11.

TWDB Table 13 shows the amount of water made available by each recommended water management strategy and the associated capital cost for each strategy. The recommended water management strategies are chosen from the feasible options listed in TWDB Table 11.

Key to Texas Water Development Board Codes in TWDB Table 13

Major Water Provider Numbers

The TWDB assigned identification numbers for all of the entities determined to be Major Water Providers within their regions. The following are the five Major Water Providers in Region C:

160	North Texas Municipal Water District
171	Trinity River Authority
190	Tarrant Regional Water District
206800	Dallas Water Utilities
298900	City of Fort Worth

Basin Numbers

The TWDB also assigned numbers to correspond to the various river basins in Texas. The following are the river basins in Region C:

2	Red River Basin
3	Sulphur River Basin
5	Sabine River Basin
6	Neches River Basin
8	Trinity River Basin
12	Brazos River Basin

Type of Water Supply

The TWDB developed a coding system for the various water management strategies. The strategies all begin with the number 4 and are followed by one or more letters matching the description of the management strategy. The Type of Water Supply is defined in the following table:

a	Water conservation and drought response planning including water demand management
b	Reuse of wastewater
c	Expanded use or acquisition of existing supplies including systems optimization and conjunctive use of surface water and groundwater
d	Reallocation of reservoir storage to new uses
e	Voluntary redistribution of water resources including water marketing, regional water banks, sales, leases, options, subordination agreements, and financing agreements
f	Subordination of existing water rights through voluntary agreements
g	Enhancements of yields of existing sources
h	Control of naturally occurring chlorides or other minerals
i	Interbasin transfers
j	New supply development including construction and improvement of surface water resources
k	Water management strategies identified in the state water plan for the regional water planning area
l	Brush control, precipitation enhancement, ands desalinization
m	Water supply that could be made available by cancellation of water rights based on data provided by the TNRCC
n	Aquifer storage and recovery
o	Other measures
p	Renewal of existing contracts

Regional Water Planning Groups

The TWDB divided the State of Texas into 16 regions in Senate Bill One (SB1) for the purpose of water planning. The following are the 16 SB1 regions:

A Panhandle Water Planning Group
B Region B Water Planning Group
C Region C Water Planning Group
D North East Texas Regional Water Planning Group
E Far West Texas Water Planning Group
F Region F Water Planning Group
G Brazos G Water Planning Group
H Region H Water Planning Group
I East Texas Water Planning Group

J Plateau Water Planning Group
K Lower Colorado Water Planning Group
L South Central Texas Water Planning Group
M Rio Grande Water Planning Group
N Coastal Bend Water Planning Group
O Llano-Estacado Water Planning Group
P Lavaca Water Planning Group

TWDB Table 13
Recommended Management Strategies by Major Provider of Municipal and Manufacturing Water

A	B	C		D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	
Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Basin Number for Basin of Use**	Basin Name	**Type of Water Supply**	**Regional Water Planning Group of Source**	**County Number of Source (Groundwater Supplies only)**	County Name of Source	**Basin Number of Source**	Basin Name of Source	**Name of Water Management Strategy**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
North Texas Municipal Water District	160	5	Sabine	4e3	C			2	Red	Additional indirect reuse.	02230P	Additional Reuse	$1,000,000	0	38	213	523	561	584			Additional reuse
North Texas Municipal Water District	160	5	Sabine	4e3	C			2	Red	Additional Lake Texoma	02230P	Additional Lake Texoma	$5,286,000	0	100	100	100	100	100			Additional Lake Texoma
North Texas Municipal Water District	160	5	Sabine	4e3						Oklahoma water		Oklahoma water	$68,777,000	0	246	423	678	720	746			Import Oklahoma water
North Texas Municipal Water District	160	5	Sabine	4e3	C			2	Red	Lower Bois d'Arc Creek Lake		Lower Bois d'Arc Creek Lake	$167,324,000	0	0	829	1,330	1,412	1,463			New surface water supply
North Texas Municipal Water District	160	5	Sabine	4e3	D			3	Sulphur	Marvin Nichols I Lake (Phase I)	03050	Marvin Nichols I Lake (Phase I)	$259,218,000	0	0	0	1,107	1,175	1,175			New surface water supply
North Texas Municipal Water District	160	5	Sabine	4e3	D			3	Sulphur	Marvin Nichols I Lake (Phase II)	03050	Marvin Nichols I Lake (Phase II)	$132,387,000	0	0	0	0	0	1,262			New surface water supply
North Texas Municipal Water District	160	8	Trinity	4e3	C			2	Red	Additional indirect reuse.	02230P	Additional Reuse		0	17,898	26,691	35,349	35,311	35,288			Cost included above
North Texas Municipal Water District	160	8	Trinity	4e3	C			2	Red	Additional Lake Texoma	02230P	Additional Lake Texoma		0	9,900	9,900	9,900	9,900	9,900			Cost included above
North Texas Municipal Water District	160	8	Trinity	4e3						Oklahoma water		Oklahoma water		0	49,754	49,577	49,322	49,280	49,254			Cost included above
North Texas Municipal Water District	160	8	Trinity	4e3	C			2	Red	Lower Bois d'Arc Creek Lake		Lower Bois d'Arc Creek Lake		0	0	97,171	96,670	96,588	96,537			Cost included above
North Texas Municipal Water District	160	8	Trinity	4e3	D			3	Sulphur	Marvin Nichols I Lake (Phase I)	03050	Marvin Nichols I Lake (Phase I)		0	0	0	80,543	80,475	80,475			Cost included above
North Texas Municipal Water District	160	8	Trinity	4e3	D			3	Sulphur	Marvin Nichols I Lake (Phase II)	03050	Marvin Nichols I Lake (Phase II)		0	0	0	0	0	80,388			Cost included above
North Texas Municipal Water District	160	8	Trinity	4o	C			8	Trinity	Water Treatment Plant Expansions in 2010		Water Treatment Plant Expansions in 2010	$194,409,000	0	0	0	0	0	0			

A	B	C		D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	
Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Basin Number for Basin of Use**	Basin Name	**Type of Water Supply**	**Regional Water Planning Group of Source**	**County Number of Source (Groundwater Supplies only)**	County Name of Source	**Basin Number of Source**	Basin Name of Source	**Name of Water Management Strategy**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
North Texas Municipal Water District	160	8	Trinity	4o	C			8	Trinity	Water Treatment Plant Expansions in 2020		Water Treatment Plant Expansions in 2020	$67,592,000	0	0	0	0	0	0			
North Texas Municipal Water District	160	8	Trinity	4o	C			8	Trinity	Water Treatment Plant Expansions in 2030		Water Treatment Plant Expansions in 2030	$187,240,000	0	0	0	0	0	0			
North Texas Municipal Water District	160	8	Trinity	4o	C			8	Trinity	Water Treatment Plant Expansions in 2040		Water Treatment Plant Expansions in 2040	$168,490,000	0	0	0	0	0	0			
North Texas Municipal Water District	160	8	Trinity	4o	C			8	Trinity	Water Treatment Plant Expansions in 2050		Water Treatment Plant Expansions in 2050	$183,724,000	0	0	0	0	0	0			
TOTAL NTMWD													$1,435,447,000	0	77,936	184,904	275,522	275,522	357,172			
Dallas	2E+05	8	Trinity	4e1	C			8	Trinity	Return flows above lakes	086D0	Return flows above lakes	$0	50,000	40,000	30,000	20,000	10,000	0			
Dallas	2E+05	8	Trinity	4e1	C			8	Trinity	Additional Temporary Overdraft	086D0	Additional Temporary Overdraft	$0	22,000	0	0	0	0	0			
Dallas	2E+05	8	Trinity	4e1	C			8	Trinity	Extend Elm Fork Term Permit	086D0	Extend Elm Fork Term Permit	$500,000	0	0	10,000	10,000	10,000	10,000			
Dallas	2E+05	8	Trinity	4e1	D			5	Sabine	Lake Fork Connection	05040	Lake Fork Connection	$288,000,000	0	120,000	120,000	120,000	120,000	120,000			
Dallas	2E+05	8	Trinity	4e1	I			6	Neches	Lake Palestine Connection	06020	Lake Palestine Connection	$332,600,000	0	0	111,500	110,900	110,200	109,600			
Dallas	2E+05	8	Trinity	4e1	D			3	Sulphur	Marvin Nichols I Lake (Phase I)	03050	Marvin Nichols I Lake (Phase I)	$220,796,000	0	0	0	56,000	56,000	56,000			
Dallas	2E+05	8	Trinity	4e1	D			3	Sulphur	Marvin Nichols I Lake (Phase II)	03050	Marvin Nichols I Lake (Phase II)	$131,530,000	0	0	0	0	0	56,000			
Dallas	2E+05	8	Trinity	4e1	C			8	Trinity	Indirect Reuse		Indirect Reuse	$124,000,000	0	0	0	0	68,300	68,300			
Dallas	2E+05	8	Trinity	4o	C					Water Treatment Plant Expansions in 2010		Water Treatment Plant Expansions in 2010	$107,134,000	0	0	0	0	0	0			

A	B	C		D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	
Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Basin Number for Basin of Use**	Basin Name	**Type of Water Supply**	**Regional Water Planning Group of Source**	**County Number of Source (Groundwater Supplies only)**	County Name of Source	**Basin Number of Source**	Basin Name of Source	**Name of Water Management Strategy**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
Dallas	2E+05	8	Trinity	4o	C					Water Treatment Plant Expansions in 2020		Water Treatment Plant Expansions in 2020	$153,351,000	0	0	0	0	0	0			
Dallas	2E+05	8	Trinity	4o	C					Water Treatment Plant Expansions in 2030		Water Treatment Plant Expansions in 2030	$67,369,000	0	0	0	0	0	0			
Dallas	2E+05	8	Trinity	4o	C					Water Treatment Plant Expansions in 2040		Water Treatment Plant Expansions in 2040	$67,369,000	0	0	0	0	0	0			
TOTAL DWU													##########	**72,000**	**160,000**	**271,500**	**316,900**	**374,500**	**419,900**			
Tarrant Regional Water District	190	8	Trinity	4e2	C			8	Trinity	Cedar Creek/Richland-Chambers pipeline expansion (Phase I)	086E0	Cedar Creek/Richland-Chambers pipeline expansion	$24,681,000	0	107,957	108,956	108,774	109,310	109,622			
Tarrant Regional Water District	190	8	Trinity	4e2	C			8	Trinity	Cedar Creek/Richland-Chambers pipeline expansion (Phase II)	086E0	Cedar Creek/Richland-Chambers pipeline expansion	$233,967,000	0	0	0	0	0	0			
Tarrant Regional Water District	190	8	Trinity	4e2	C			8	Trinity	Reuse (Phase I)		Reuse from the Trinity River (Phase I)	$34,294,000	0	62,422	62,422	62,422	62,532	62,744			
Tarrant Regional Water District	190	8	Trinity	4e2	C			8	Trinity	Reuse (Phase II)		Reuse from the Trinity River (Phase II)	$40,874,000	0	0	52,271	52,146	52,324	52,432			
Tarrant Regional Water District	190	8	Trinity	4e2	D			3	Sulphur	Marvin Nichols I (Phase I)	03050	Marvin Nichols I (Phase I)	$402,081,000	0	0	0	77,365	77,562	77,562			
Tarrant Regional Water District	190	8	Trinity	4e2	D			3	Sulphur	Marvin Nichols I (Phase II)	03050	Marvin Nichols I (Phase II)	$271,285,000	0	0	0	0	0	77,998			
Tarrant Regional Water District	190	8	Trinity	4e2						Oklahoma Water		Oklahoma Water	$99,931,000	0	0	0	11,880	11,920	11,960			

A	B	C		D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	
Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Basin Number for Basin of Use**	Basin Name	**Type of Water Supply**	**Regional Water Planning Group of Source**	**County Number of Source (Groundwater Supplies only)**	County Name of Source	**Basin Number of Source**	Basin Name of Source	**Name of Water Management Strategy**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
Tarrant Regional Water District	190	8	Trinity	4e2	C			8	Trinity	West Fork Connection	086C0	West Fork Connection	$60,539,000	0	0	0	0	0	0			West Fork Connection. Does not provide additional water, but it does provide additional flexibility within the system for 67,300 Acre-Feet/Year.
Tarrant Regional Water District	190	12	Brazos	4e2	C			8	Trinity	Cedar Creek/Richland-Chambers pipeline expansion (Phase I)	086E0	Cedar Creek/Richland-Chambers pipeline expansion		0	2,043	1,044	1,226	690	378			Cost included above
Tarrant Regional Water District	190	12	Brazos	4e2	C			8	Trinity	Cedar Creek/Richland-Chambers pipeline expansion (Phase II)	086E0	Cedar Creek/Richland-Chambers pipeline expansion		0	0	0	0	0	0			Cost included above
Tarrant Regional Water District	190	12	Brazos	4e2	C			8	Trinity	Reuse (Phase I)		Reuse from the Trinity River (Phase I)		0	578	578	578	468	256			Cost included above
Tarrant Regional Water District	190	12	Brazos	4e2	C			8	Trinity	Reuse (Phase II)		Reuse from the Trinity River (Phase II)		0	0	229	354	176	68			Cost included above
Tarrant Regional Water District	190	12	Brazos	4e2	D			3	Sulphur	Marvin Nichols I (Phase I)	03050	Marvin Nichols I		0	0	0	635	438	438			Cost included above
Tarrant Regional Water District	190	12	Brazos	4e2	D			3	Sulphur	Marvin Nichols I (Phase II)	03050	Marvin Nichols I		0	0	0	0	0	2			Cost included above
Tarrant Regional Water District	190	12	Brazos	4e2						Oklahoma Water		Oklahoma Water		0	0	0	120	80	40			Cost included above
TOTAL TRWD (Including TRA & Fort Worth)													**$1,167,652,000**	**0**	**173,000**	**225,500**	**315,500**	**315,500**	**393,500**			
Trinity River Authority	171	8	Trinity	4e2						TRWD		TRWD		0	34,722	38,791	41,776	45,021	47,910			Buying from TRWD. See TRWD costs.
Trinity River Authority	171	8	Trinity	4e2	C			8		Water Treatment Plant Expansion in 2010 (Tarrant Co Customers)		Water Treatment Plant Expansion in 2010 (Tarrant Co Customers)	$17,595,000	0	0	0	0	0	0			Water treatment plant expansion

A	B	C		D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	
Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Basin Number for Basin of Use**	Basin Name	**Type of Water Supply**	**Regional Water Planning Group of Source**	**County Number of Source (Groundwater Supplies only)**	County Name of Source	**Basin Number of Source**	Basin Name of Source	**Name of Water Management Strategy**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
Trinity River Authority	171	8	Trinity	4e2	C			8		Water Treatment Plant Expansion in 2030 (Tarrant Co Customers)		Water Treatment Plant Expansion in 2030 (Tarrant Co Customers)	$17,595,000	0	0	0	0	0	0			Water treatment plant expansion
Trinity River Authority	171	8	Trinity	4e2	C			8		Water Treatment Plant Expansion in 2040 (Tarrant Co Customers)		Water Treatment Plant Expansion in 2040 (Tarrant Co Customers)	$17,595,000	0	0	0	0	0	0			Water treatment plant expansion
Trinity River Authority	171	8	Trinity	4e2	C			8		Ellis County Project		Ellis County Project	$65,945,000	0	0	0	0	0	0			Ellis County Project (Included in supply from TRWD)
Trinity River Authority	171	8	Trinity	4b	C			8		Las Colinas Reuse		Las Colinas Reuse	$5,493,000	0	7,000	7,000	7,000	7,000	7,000			Direct reuse from effluent (landscape irrigation, Dallas County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Joe Pool Reuse Phase I		Joe Pool Reuse Phase I	$5,875,000	0	0	7,000	14,000	14,000	14,000			Indirect reuse from effluent Phase I (Joe Pool Lake, Dallas County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Joe Pool Reuse Phase II		Joe Pool Reuse Phase II	$6,031,000	0	0	0	0	7,000	14,000			Indirect reuse from effluent Phase II (Joe Pool Lake, Dallas County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Mountain Creek Reuse		Mountain Creek Reuse	$2,015,000	0	0	3,000	3,000	3,000	3,000			Indirect reuse from effluent (Mountain Creek, Dallas County Steam Electric).
Trinity River Authority	171	8	Trinity	4b	C			8		Ellis County Reuse		Ellis County Reuse	$22,958,000	0	20,000	20,000	20,000	20,000	20,000			Direct reuse from effluent (Ellis County, Ellis County Steam Electric).
Trinity River Authority	171	8	Trinity	4b	C			8		Denton County Reuse		Denton County Reuse	$2,653,000	0	2,000	4,000	5,000	5,000	5,000			Indirect reuse from effluent (Denton Creek Plant, Denton County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Tarrant County Reuse		Tarrant County Reuse	$1,326,000	0	1,000	2,000	2,500	2,500	2,500			Indirect reuse from effluent (Denton Creek Plant, Tarrant County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Grapevine Lake Reuse Phase I		Grapevine Lake Reuse Phase I	$1,000,000	0	0	4,000	8,000	8,000	8,000			Indirect reuse from effluent Phase I (Grapevine Lake, Dallas County Other).
Trinity River Authority	171	8	Trinity	4b	C			8		Grapevine Lake Reuse Phase II		Grapevine Lake Reuse Phase II		0	0	0	0	8,000	8,000			Indirect reuse from effluent Phase II (Grapevine Lake, Dallas County Other).

A	B	C		D	E	F		G		H	I	J	K	L	M	N	O	P	Q	R	S	
Major Water Provider Name	**Major Water Provider Number (TWDB Alpha Number)**	**Basin Number for Basin of Use**	Basin Name	**Type of Water Supply**	**Regional Water Planning Group of Source**	**County Number of Source (Groundwater Supplies only)**	County Name of Source	**Basin Number of Source**	Basin Name of Source	**Name of Water Management Strategy**	**Specific Source Identifier**	**Name of Specific Source**	**Total Capital Cost**	**Year 2000 Value of Total Supply from Strategy**	**Year 2010 Value of Total Supply from Strategy**	**Year 2020 Value of Total Supply from Strategy**	**Year 2030 Value of Total Supply from Strategy**	**Year 2040 Value of Total Supply from Strategy**	**Year 2050 Value of Total Supply from Strategy**	**Exception from Meeting Needs Due To**	**Scenario Number for Meeting Long-Term Needs (Blank if only one listed)**	Comments
TOTAL TRA													**$166,081,000**	**0**	**64,722**	**85,791**	**101,276**	**119,521**	**129,410**			**Does not include TRWD costs.**
Fort Worth	3E+05	8	Trinity	4e2						TRWD		TRWD		0	62,973	121,408	169,040	160,245	205,013			Buying from TRWD. See TRWD costs.
Fort Worth	3E+05	8	Trinity	4b	C			8		Reuse		Reuse	$2,909,000	0	500	500	1,100	2,000	2,600			Direct Reuse
Fort Worth	3E+05	8	Trinity	4e2	C			8		Water Treatment Plant Expansions in 2000		Water Treatment Plant Expansions in 2000	$27,300,000	0	0	0	0	0	0			Water treatment plant expansion
Fort Worth	3E+05	8	Trinity	4e2	C			8		Water Treatment Plant Expansions in 2010		Water Treatment Plant Expansions in 2010	$82,096,000	0	0	0	0	0	0			Water treatment plant expansion
Fort Worth	3E+05	8	Trinity	4e2	C			8		Water Treatment Plant Expansions in 2030		Water Treatment Plant Expansions in 2030	$52,113,000	0	0	0	0	0	0			Water treatment plant expansion
Fort Worth	3E+05	8	Trinity	4e2	C			8		Water Treatment Plant Expansions in 2050		Water Treatment Plant Expansions in 2050	$59,966,000	0	0	0	0	0	0			Water treatment plant expansion
TOTAL FORT WORTH													**$224,384,000**	**0**	**63,473**	**121,908**	**170,140**	**162,245**	**207,613**			**Doe not include TRWD costs.**

Note:

Titles in **BOLD** are the columns required by TWDB

APPENDIX V

TEXAS WATER DEVELOPMENT BOARD SUMMARY TABLES

APPENDIX V
TEXAS WATER DEVELOPMENT BOARD SUMMARY TABLES

The TWDB required a set of tables that summarize the projected demands and supplies for each Water User Group (WUG) and Major Water Provider (MWP). The summary table for each WUG includes the following information:

- Projected population by the TWDB from TWDB Table 1
- Projected demand approved by the TWDB from TWDB Tables 2
- The supplies currently available to each WUG from TWDB Table 5
- The comparison of supply and demand shown in TWDB Table 7
- The recommended water management strategies to meet the projected shortfalls in supply from TWDB Table 12
- A final comparison of the projected supply and demand after implementation of water management strategies.

Following the water user group summaries organized by county, a total summary for water user groups located in more than one county is provided. The summary table by water user group is a useful presentation of plans for each water user group.

The summary table for major water providers includes the following information:

- Demands from TWDB Table 3
- Supplies currently available to each major water provider from TWDB Table 6
- The comparison of supply and demand from TWDB Table 8
- Recommended water management strategies from TWDB Table 13
- A final comparison of projected supply and demand after the implementation of water management strategies.

Although the summary for the major water providers does show the water management strategies they would implement, the final comparison of supply and demand is essentially worthless. Because the TWDB requires that demands on major water providers be assumed to drop to zero when current contracts expire, the demands from TWDB Table 3 are not near the actual demands from that will be met by the major water

providers. TWDB requirements for the summary tables do not allow for this to be corrected by adding demands for the renewal of contracts and for potential new customers.

TWDB Summary Table by Water User Group

Collin County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Allen	30012000	Collin	Trinity	Population		44,000	80,000	106,300	117,000	121,000	125,136
				TWDB Table 2 Demands		10,350	23,299	30,125	33,026	33,478	33,921
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	6,119	10,222	10,636	9,956	8,768	8,019
					Lake Texoma (NTMWD)	3,382	5,720	6,021	5,711	5,098	4,727
					Chapman (NTMWD)	2,371	3,936	4,113	3,872	3,429	3,155
				Current Supply Less Demand		*1,522*	*-3,421*	*-9,355*	*-13,487*	*-16,183*	*-18,020*
				TWDB Table 12 Strategies	NTMWD	0	5,412	14,119	20,014	17,732	21,407
				Total Supply Less Demand		1,522	1,991	4,764	6,527	1,549	3,387
Anna	30029000	Collin	Trinity	Population		1,168	1,282	1,381	1,487	1,552	1,622
				TWDB Table 2 Demands		157	167	173	180	181	182
				TWDB Table 5 Supply	Trinity Aquifer	121	121	121	121	121	121
					Woodbine Aquifer	133	133	133	133	133	133
				Current Supply Less Demand		*97*	*87*	*81*	*74*	*73*	*72*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		97	87	81	74	73	72
Blue Ridge	30094000	Collin	Trinity	Populatio n		617	652	677	713	753	789
				TWDB Table 2 Demands		83	91	99	104	105	106
				TWDB Table 5 Supply	Woodbine Aquifer	82	82	82	82	82	82
				Current Supply Less Demand		*-1*	*-9*	*-17*	*-22*	*-23*	*-24*
				TWDB Table 12 Strategies	Add New Well & Overdraft Woodbine Aquifer	1	0	0	0	0	0
					Reallocate Woodbine Aquifer	0	15	20	25	28	28
				Total Supply Less Demand		0	6	3	3	5	4
Celina	30154000	Collin	Trinity	Population		2,260	5,750	12,595	24,952	34,074	39,952
				TWDB Table 2 Demands		314	963	2,469	5,590	7,443	8,503
				TWDB Table 5 Supply	Trinity Aquifer	206	206	206	206	206	206
				Current Supply Less Demand		*-108*	*-757*	*-2,263*	*-5,384*	*-7,237*	*-8,297*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	108	0	0	0	0	0
					UTRWD (Lake Chapman) new customer	0	1,214	1,456	1,210	1,393	1,383
					UTRWD (reuse) new customer	0	1,200	1,386	1,149	1,322	1,313
					UTRWD (DWU) new customer	0	0	0	3,303	4,862	6,276
				Total Supply Less Demand		0	1,657	579	278	340	675
Dallas	30227000	Collin	Trinity	Population		28,678	30,497	34,329	37,262	40,872	44,832
(Partial)				TWDB Table 2 Demands		8,352	9,394	10,575	11,353	12,270	13,258
				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	7,352	7,686	9,368	12,058	12,458	13,131

					Lake Ray Hubbard (DWU)	0	0	0	0	0	0
					Tawakoni (DWU)	0	0	0	0	0	0
				Current Supply Less Demand		*-1,000*	*-1,708*	*-1,207*	*705*	*188*	*-127*
				TWDB Table 12 Strategies	DWU	1,128	2,880	1,564	0	0	143
				Total Supply Less Demand		128	1,172	357	705	188	16
Fairview	30291000	Collin	Trinity	Population		3,300	4,091	4,600	5,200	5,700	6,538
				TWDB Table 2 Demands		776	1,191	1,304	1,468	1,603	1,831
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	459	523	460	443	420	433
					Lake Texoma (NTMWD)	254	292	261	254	244	255
					Chapman (NTMWD)	178	201	178	172	164	170
				Current Supply Less Demand		*115*	*-175*	*-405*	*-599*	*-775*	*-973*
				TWDB Table 12 Strategies	NTMWD	0	277	611	888	849	1,155
				Total Supply Less Demand		115	102	206	289	74	182
Farmersville	30294000	Collin	Trinity	Population		3,758	4,382	5,050	5,820	6,707	7,729
				TWDB Table 2 Demands		568	663	849	978	1,089	1,212
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	336	291	300	295	285	287
					Lake Texoma (NTMWD)	186	163	170	169	166	169
					Chapman (NTMWD)	130	112	116	115	112	113
				Current Supply Less Demand		*84*	*-97*	*-263*	*-399*	*-526*	*-643*
				TWDB Table 12 Strategies	NTMWD	0	153	396	592	577	764
				Total Supply Less Demand		84	56	133	193	51	121
Frisco	30319000	Collin	Trinity	Population		32,500	61,700	100,000	153,000	214,000	272,000
(Partial)				TWDB Table 2 Demands		9,829	20,388	32,596	49,187	67,838	85,005
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	5,811	8,944	11,509	14,827	17,766	20,096
					Lake Texoma (NTMWD)	3,212	5,005	6,515	8,506	10,330	11,845
					Chapman (NTMWD)	2,252	3,444	4,451	5,766	6,949	7,907
				Current Supply Less Demand		*1,446*	*-2,995*	*-10,121*	*-20,088*	*-32,793*	*-45,157*
				TWDB Table 12 Strategies	NTMWD	0	4,738	15,276	29,810	35,934	53,646
				Total Supply Less Demand		1,446	1,743	5,155	9,722	3,141	8,489
Garland	30334000	Collin	Trinity	Population		22	25	31	35	41	48
(Partial)				TWDB Table 2 Demands		4	4	5	6	6	8
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	3	1	2	2	2	2
					Lake Texoma (NTMWD)	1	1	1	1	1	1
					Chapman (NTMWD)	1	1	1	1	1	1
				Current Supply Less Demand		*1*	*-1*	*-1*	*-2*	*-2*	*-4*
				TWDB Table 12 Strategies	NTMWD	0	2	1	3	2	5
				Total Supply Less Demand		1	1	0	1	0	1
Lucas	30547000	Collin	Trinity	Population		3,657	4,815	5,139	6,263	7,270	8,439
				TWDB Table 2 Demands		717	944	1,007	1,228	1,384	1,560
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	424	414	356	370	362	369

					Lake Texoma (NTMWD)	234	232	201	212	211	217
					Chapman (NTMWD)	164	159	137	144	142	145
				Current Supply Less Demand		*105*	*-139*	*-313*	*-502*	*-669*	*-829*
				TWDB Table 12 Strategies	NTMWD	0	220	472	745	733	984
				Total Supply Less Demand		105	81	159	243	64	155
McKinney	30577000	Collin	Trinity	Population		50,000	100,000	145,000	190,000	234,000	277,200
				TWDB Table 2 Demands		15,402	33,044	47,264	61,081	74,178	86,631
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	9,105	14,497	16,688	18,413	19,426	20,480
					Lake Texoma (NTMWD)	5,033	8,112	9,447	10,563	11,296	12,072
					Chapman (NTMWD)	3,528	5,582	6,453	7,161	7,598	8,058
				Current Supply Less Demand		*2,264*	*-4,853*	*-14,676*	*-24,944*	*-35,858*	*-46,021*
				TWDB Table 12 Strategies	NTMWD	0	7,680	22,145	37,013	39,296	54,674
				Total Supply Less Demand		2,264	2,827	7,469	12,069	3,438	8,653
Melissa	30584000	Collin	Trinity	Population		952	1,200	1,300	1,450	1,500	1,579
				TWDB Table 2 Demands		107	168	182	203	202	203
				TWDB Table 5 Supply	Woodbine Aq	60	60	60	60	60	60
					NTMWD Lake Lavon/Reuse (thru North Collins WSC)	28	47	43	43	37	34
					Lake Texoma (NTMWD thru North Collins WSC)	15	27	24	25	22	20
					Chapman (NTMWD thru North Collins WSC)	11	18	17	17	15	13
				Current Supply Less Demand		*7*	*-16*	*-38*	*-58*	*-68*	*-76*
				TWDB Table 12 Strategies	North Collins WSC (NTMWD)	0	25	57	87	75	91
				Total Supply Less Demand		7	9	19	29	7	15
Murphy	30619000	Collin	Trinity	Population		3,200	8,500	12,750	15,000	16,800	18,600
				TWDB Table 2 Demands		753	1,885	2,685	3,108	3,443	3,791
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	445	827	948	937	902	896
					Lake Texoma (NTMWD)	246	463	537	537	524	528
					Chapman (NTMWD)	172	318	367	364	353	353
				Current Supply Less Demand		*110*	*-277*	*-833*	*-1,270*	*-1,664*	*-2,014*
				TWDB Table 12 Strategies	NTMWD	0	438	1,257	1,885	1,824	2,392
				Total Supply Less Demand		110	161	424	615	160	378
New Hope	30631000	Collin	Trinity	Population		600	616	636	660	688	720
				TWDB Table 2 Demands		95	92	90	90	91	94
				TWDB Table 5 Supply	Lake Lavon/Reuse (thru North Collins WSC)	56	40	32	27	24	22
					Lake Texoma (thru North Collins WSC)	31	23	18	16	14	13
					Chapman (NTMWD) (thru North Collins WSC)	22	16	12	11	9	9

				Current Supply Less Demand		*14*	*-13*	*-28*	*-36*	*-44*	*-50*
				TWDB Table 12 Strategies	North Collins WSC (NTMWD)	0	20	41	54	48	59
				Total Supply Less Demand		14	7	13	18	4	9
Parker	30679000	Collin	Trinity	Population		2,500	6,000	10,900	18,000	26,100	34,000
				TWDB Table 2 Demands		770	1,983	3,516	5,767	8,332	10,816
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	455	870	1,241	1,738	2,182	2,557
					Lake Texoma (NTMWD)	252	487	703	997	1,269	1,507
					Chapman (NTMWD)	176	335	480	676	853	1,006
				Current Supply Less Demand		*113*	*-291*	*-1,092*	*-2,356*	*-4,028*	*-5,746*
				TWDB Table 12 Strategies	NTMWD	0	460	1,649	3,496	4,414	6,827
				Total Supply Less Demand		113	169	557	1,140	386	1,081
Plano	30704000	Collin	Trinity	Population		234,000	276,000	276,000	276,000	276,000	276,000
(Partial)				TWDB Table 2 Demands		67,887	84,091	81,927	80,382	79,763	79,763
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	40,133	36,892	28,926	24,231	20,889	18,857
					Lake Texoma (NTMWD)	22,184	20,644	16,376	13,900	12,146	11,115
					Chapman (NTMWD)	15,551	14,206	11,186	9,423	8,170	7,420
				Current Supply Less Demand		*9,981*	*-12,349*	*-25,439*	*-32,828*	*-38,558*	*-42,371*
				TWDB Table 12 Strategies	NTMWD	0	19,534	38,402	48,723	42,240	50,335
				Total Supply Less Demand		9,981	7,185	12,963	15,895	3,682	7,964
Princeton	30724000	Collin	Trinity	Population		3,000	4,400	5,500	6,250	6,950	7,500
				TWDB Table 2 Demands		433	665	924	1,050	1,129	1,176
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	256	292	326	317	296	278
					Lake Texoma (NTMWD)	141	163	185	182	172	164
					Chapman (NTMWD)	99	112	126	123	116	109
				Current Supply Less Demand		*63*	*-98*	*-287*	*-428*	*-545*	*-625*
				TWDB Table 12 Strategies	NTMWD	0	155	433	635	596	742
				Total Supply Less Demand		63	57	146	207	51	117
Prosper	30726000	Collin	Trinity	Population		2,400	7,300	12,500	18,200	24,000	30,000
				TWDB Table 2 Demands		417	1,378	2,408	3,445	4,489	5,578
				TWDB Table 5 Supply	Woodbine Aquifer	229	229	229	229	229	229
				Current Supply Less Demand		*-188*	*-1,149*	*-2,179*	*-3,216*	*-4,260*	*-5,349*
				TWDB Table 12 Strategies	Decrease Woodbine Aquifer	0	-20	-25	-30	-35	-35
					Overdraft Woodbine Aquifer	188	0	0	0	0	0
					NTMWD (new customer)	0	909	1,645	2,386	2,335	3,178
					UTRWD (Lake Chapman)	0	921	701	361	410	446
					UTRWD (reuse)	0	910	667	343	389	423
					UTRWD (DWU)	0	0	0	988	1,431	2,022
				Total Supply Less Demand		0	1,571	809	832	270	685
Richardson	30747000	Collin	Trinity	Population		11,828	12,620	14,007	15,358	16,618	17,981
(Partial)				TWDB Table 2 Demands		3,643	3,887	4,174	4,507	4,821	5,196

				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	2,154	1,705	1,474	1,359	1,263	1,228
					Lake Texoma (NTMWD)	1,190	954	834	779	734	724
					Chapman (NTMWD)	835	657	570	528	494	483
				Current Supply Less Demand		*536*	*-571*	*-1,296*	*-1,841*	*-2,330*	*-2,761*
				TWDB Table 12 Strategies	NTMWD	0	904	1,956	2,733	2,553	3,280
				Total Supply Less Demand		536	333	660	892	223	519
Royse City	30779000	Collin	Sabine	Population		333	426	550	662	766	886
(Partial)				TWDB Table 2 Demands		61	91	123	146	168	194
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	36	40	43	44	44	46
					Lake Texoma (NTMWD)	20	22	25	25	26	27
					Chapman (NTMWD)	14	15	17	17	17	18
				Current Supply Less Demand		*9*	*-14*	*-38*	*-60*	*-81*	*-103*
				TWDB Table 12 Strategies	NTMWD	0	22	57	89	89	123
				Total Supply Less Demand		9	8	19	29	8	20
Sachse	30784000	Collin	Trinity	Population		287	472	565	635	738	839
(Partial)				TWDB Table 2 Demands		54	97	112	125	144	164
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	32	43	40	38	38	39
					Lake Texoma (NTMWD)	18	24	22	22	22	23
					Chapman (NTMWD)	12	16	15	15	15	15
				Current Supply Less Demand		*8*	*-14*	*-35*	*-50*	*-69*	*-87*
				TWDB Table 12 Strategies	NTMWD	0	22	53	73	76	102
				Total Supply Less Demand		8	8	18	23	7	15
Wylie	30991000	Collin	Trinity	Population		12,373	18,341	26,936	39,929	54,923	69,120
(Partial)				TWDB Table 2 Demands		2,273	3,164	4,435	6,440	8,797	10,993
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	1,344	1,388	1,566	1,941	2,304	2,599
					Lake Texoma (NTMWD)	743	777	886	1,114	1,340	1,532
					Chapman (NTMWD)	521	535	606	755	901	1,023
				Current Supply Less Demand		*335*	*-464*	*-1,377*	*-2,630*	*-4,252*	*-5,839*
				TWDB Table 12 Strategies	NTMWD	0	734	2,079	3,903	4,660	6,936
				Total Supply Less Demand		335	270	702	1,273	408	1,097
County-Other	30996043	Collin	Sabine	Population		103	432	9,387	13,564	16,161	16,089
				TWDB Table 2 Demands		17	66	1,309	1,783	2,219	2,094
				TWDB Table 5 Supply	Trinity Aquifer	125	125	125	125	125	125
					Woodbine Aquifer	94	94	94	94	94	94
					NTMWD Lake Lavon/Reuse	0	0	385	471	524	443
					Lake Texoma (NTMWD)	0	0	218	270	305	261
					Chapman (NTMWD)	0	0	149	183	205	174
				Current Supply Less Demand		*202*	*153*	*-338*	*-640*	*-966*	*-997*
				TWDB Table 12 Strategies	NTMWD	0	0	510	949	1,058	1,185
				Total Supply Less Demand		202	153	172	309	92	188

County-Other	30996043	Collin	Trinity	Population		1,464	5,954	137,176	202,561	243,787	243,796
				TWDB Table 2 Demands		308	1,294	22,936	29,549	35,726	33,351
				TWDB Table 5 Supply	Trinity Aquifer	1,349	1,349	1,349	1,349	1,349	1,349
					Woodbine Aquifer	1,019	1,019	1,019	1,019	1,019	1,019
					NTMWD Lake Lavon/Reuse	0	0	7,262	8,194	8,736	7,325
					Lake Texoma (NTMWD)	0	0	4,111	4,700	5,080	4,317
					Chapman (NTMWD)	0	0	2,808	3,186	3,417	2,882
				Current Supply Less Demand		*2,060*	*1,074*	*-6,387*	*-11,101*	*-16,125*	*-16,459*
				TWDB Table 12 Strategies	NTMWD	0	0	9,640	16,475	17,669	19,553
				Total Supply Less Demand		2,060	1,074	3,253	5,374	1,544	3,094
Irrigation	31004043	Collin	Trinity	TWDB Table 2 Demands		0	0	0	0	0	0
				TWDB Table 5 Supply	Irrigation Local Supply	1,017	1,017	1,017	1,017	1,017	1,017
				Current Supply Less Demand		*1,017*	*1,017*	*1,017*	*1,017*	*1,017*	*1,017*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		1,017	1,017	1,017	1,017	1,017	1,017
Livestock	31005043	Collin	Sabine	TWDB Table 2 Demands		38	38	38	38	38	38
				TWDB Table 5 Supply	Other Aquifer	5	5	5	5	5	5
					Livestock Local Supply	35	35	35	35	35	35
				Current Supply Less Demand		*2*	*2*	*2*	*2*	*2*	*2*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		2	2	2	2	2	2
Livestock	31005043	Collin	Trinity	TWDB Table 2 Demands		1,057	1,057	1,057	1,057	1,057	1,057
				TWDB Table 5 Supply	Other Aquifer	134	134	134	134	134	134
					Livestock Local Supply	967	967	967	967	967	967
				Current Supply Less Demand		*44*	*44*	*44*	*44*	*44*	*44*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		44	44	44	44	44	44
Manufacturing	31001043	Collin	Trinity	TWDB Table 2 Demands		2,368	2,677	2,963	3,245	3,664	4,110
				TWDB Table 5 Supply	Woodbine Aquifer	215	215	215	215	215	215
					NTMWD Lake Lavon/Reuse	1,621	1,080	970	913	903	921
					Lake Texoma (NTMWD)	896	604	549	524	525	543
					Chapman (NTMWD)	628	416	375	355	353	362
				Current Supply Less Demand		*992*	*-362*	*-854*	*-1,238*	*-1,668*	*-2,069*
				TWDB Table 12 Strategies	NTMWD	0	572	1,289	1,836	1,828	2,458
				Total Supply Less Demand		992	210	435	598	160	389
Mining	31003043	Collin	Trinity	TWDB Table 2 Demands		182	183	175	171	163	172
				TWDB Table 5 Supply	Other Local Supply	349	349	349	349	349	349
				Current Supply Less Demand		*167*	*166*	*174*	*178*	*186*	*177*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		167	166	174	178	186	177

Steam Electric Power	31002043	Collin	Trinity	TWDB Table 2 Demands		2,000	7,000	7,000	7,000	10,000	10,000
				TWDB Table 5 Supply	Trinity Aquifer	1,023	1,023	1,023	1,023	1,023	1,023
					NTMWD Lake Lavon/Reuse	2,365	1,755	1,412	1,206	1,048	946
					Lake Texoma (NTMWD)	1,307	982	800	692	609	557
					Chapman (NTMWD)	328	676	546	469	410	372
				Current Supply Less Demand		*3,023*	*-2,564*	*-3,219*	*-3,610*	*-6,910*	*-7,102*
					Reuse (NTMWD)	0	4,000	4,000	4,000	7,200	7,200
				Total Supply Less Demand	0	3,023	1,436	781	390	290	98

Cooke County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Gainesville	30327000	Cooke	Trinity	Population		15,644	16,878	18,358	19,674	21,031	22,388
				TWDB Table 2 Demands		3,067	3,214	3,393	3,526	3,769	4,012
				TWDB Table 5 Supply	Trinity Aquifer	1,565	1,565	1,565	1,297	1,297	1,297
				Current Supply Less Demand		*-1,502*	*-1,649*	*-1,828*	*-2,229*	*-2,472*	*-2,715*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	0	-601	-547	-239	-166	-93
					Overdraft Trinity Aquifer	942	0	0	0	0	0
					Moss Lake	561	561	561	561	561	561
					Moss Lake	0	561	561	561	561	561
					Moss Lake Parallel Pipeline	0	2,602	2,602	2,602	2,602	2,602
				Total Supply Less Demand		0	1,473	1,348	1,255	1,085	915
Lindsay	30525000	Cooke	Trinity	Population		698	747	856	976	1,043	1,087
				TWDB Table 2 Demands		88	95	108	124	132	138
				TWDB Table 5 Supply	Trinity Aquifer	60	60	60	50	50	50
				Current Supply Less Demand		*-28*	*-35*	*-48*	*-74*	*-82*	*-88*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	0	-31	-28	-12	-10	-9
					Overdraft Trinity Aquifer	28	0	0	0	0	0
					Cooke County Water Supply Project (Moss Lake)	0	97	97	97	97	97
				Total Supply Less Demand		0	31	21	11	5	0
Muenster	30615000	Cooke	Trinity	Population		1,601	1,740	1,890	1,985	2,080	2,175
				TWDB Table 2 Demands		300	308	317	325	333	346
				TWDB Table 5 Supply	Trinity Aquifer	210	210	210	174	174	174
				Current Supply Less Demand		*-90*	*-98*	*-107*	*-151*	*-159*	*-172*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	0	-118	-115	-77	-74	-70
					Overdraft Trinity Aquifer	90	0	0	0	0	0
					Muenster Lake	0	446	446	446	446	446
				Total Supply Less Demand		0	230	224	218	213	204

Valley View	30923000	Cooke	Trinity	Population		652	698	771	851	940	1,039
				TWDB Table 2 Demands		73	82	95	110	126	145
				TWDB Table 5 Supply	Trinity Aquifer	39	39	39	32	32	32
				Current Supply Less Demand		*-34*	*-43*	*-56*	*-78*	*-94*	*-113*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	30	0	0	0	0	0
					Overdraft Trinity Aquifer, new well	24	0	0	0	0	0
					Reallocate Trinity Aquifer	0	30	30	0	0	0
					Reallocate Trinity Aquifer, new well	0	24	48	0	0	0
					UTRWD (Lake Chapman)	0	0	0	39	47	57
					UTRWD (Reuse)	0	0	0	39	47	56
				Total Supply Less Demand		20	11	22	0	0	0
County-Other	30996049	Cooke	Red	Population		2,032	2,201	2,218	2,174	2,127	2,081
				TWDB Table 2 Demands		246	248	236	224	219	214
				TWDB Table 5 Supply	Trinity Aquifer	148	148	148	123	123	123
				Current Supply Less Demand		*-98*	*-100*	*-88*	*-101*	*-96*	*-91*
				TWDB Table 12 Strategies	Add New Wells & Overdraft Aquifer	24	0	0	0	0	0
					Overdraft with Existing wells	86	0	0	0	0	0
					Reallocate Trinity Aquifer, new well	0	24	24	24	24	24
					Reallocate Trinity Aquifer	0	86	86	86	86	86
				Total Supply Less Demand		12	10	22	9	14	19
County-Other	30996049	Cooke	Trinity	Population		13,582	14,703	14,723	14,340	14,029	13,730
				TWDB Table 2 Demands		1,787	1,810	1,718	1,626	1,591	1,557
				TWDB Table 5 Supply	Trinity Aquifer	1,156	1,156	1,156	958	958	958
				Current Supply Less Demand		*-631*	*-654*	*-562*	*-668*	*-633*	*-599*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	0	0	0	-5	-26	-45
					Overdraft Trinity Aquifer	631	0	0	0	0	0
					Reallocate Trinity Aquifer	0	503	454	0	0	0
					Add new well & pump Woodbine Aquifer	0	141	141	141	141	141
					Cooke County Water Supply Project (Moss Lake)	0	558	558	558	558	558
					UTRWD (Lake Chapman)	0	714	458	545	537	527
					UTRWD (reuse)	0	227	458	544	536	527
				Total Supply Less Demand		0	1,489	1,506	1,115	1,113	1,109
Irrigation	31004049	Cooke	Red	TWDB Table 2 Demands		194	188	182	176	171	165
				TWDB Table 5 Supply	Trinity Aquifer	132	132	132	109	109	109

					Irrigation Local Supply	23	23	23	23	23	23
				Current Supply Less Demand		*-39*	*-33*	*-27*	*-44*	*-39*	*-33*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	39	0	0	0	0	0
					Reallocate Trinity Aquifer	0	33	27	44	39	33
				Total Supply Less Demand		0	0	0	0	0	0
Irrigation	31004049	Cooke	Trinity	TWDB Table 2 Demands		96	93	90	87	84	82
				TWDB Table 5 Supply	Trinity Aquifer	55	55	55	46	46	46
					Irrigation Local Supply	70	70	70	70	70	70
				Current Supply Less Demand		*29*	*32*	*35*	*29*	*32*	*34*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	-29	-32	-35	-29	-32	-34
					No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Livestock	31005049	Cooke	Red	TWDB Table 2 Demands		718	718	718	718	718	718
				TWDB Table 5 Supply	Trinity Aquifer	236	236	236	195	195	195
					Livestock Local Supply	377	377	377	377	377	377
				Current Supply Less Demand		*-105*	*-105*	*-105*	*-146*	*-146*	*-146*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	105	0	0	0	0	0
					Reallocate Trinity Aquifer	0	105	105	146	146	146
				Total Supply Less Demand		0	0	0	0	0	0
Livestock	31005049	Cooke	Trinity	TWDB Table 2 Demands		1,538	1,538	1,538	1,538	1,538	1,538
				TWDB Table 5 Supply	Trinity Aquifer	453	453	453	375	375	375
					Livestock Local Supply	810	810	810	810	810	810
				Current Supply Less Demand		*-275*	*-275*	*-275*	*-353*	*-353*	*-353*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer (existing wells)	270	0	0	0	0	0
					Overdraft Trinity Aquifer (new well)	8	0	0	0	0	0
					Reallocate Trinity Aquifer (existing wells)	0	270	270	348	348	348
					Reallocate Trinity Aquifer (new well)	0	8	8	8	8	8
				Total Supply Less Demand		3	-5	-5	-5	-5	-5
Manufacturing	31001049	Cooke	Trinity	TWDB Table 2 Demands		352	406	458	509	572	634
				TWDB Table 5 Supply	Trinity Aquifer	205	205	205	170	170	170
				Current Supply Less Demand		*-147*	*-201*	*-253*	*-339*	*-402*	*-464*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	147	0	0	0	0	0
					Moss Lake	0	260	260	260	260	260
					Muenster Lake	0	204	204	204	204	204
				Total Supply Less Demand		0	263	211	125	62	0

Mining	31003049	Cooke	Red	TWDB Table 2 Demands		242	135	96	58	45	42
				TWDB Table 5 Supply	Trinity Aquifer	153	153	153	127	127	127
				Current Supply Less Demand		*-89*	*18*	*57*	*69*	*82*	*85*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	0	-18	-57	-69	-82	-85
					Overdraft Trinity Aquifer	89	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Mining	31003049	Cooke	Trinity	TWDB Table 2 Demands		353	298	289	283	283	288
				TWDB Table 5 Supply	Trinity Aquifer	117	117	117	97	97	97
					Other Local Supply	237	237	237	237	237	237
				Current Supply Less Demand		*1*	*56*	*65*	*51*	*51*	*46*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	-1	-56	-65	-51	-51	-46
					No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0

Dallas County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Addison	30003000	Dallas	Trinity	Population		12,802	15,292	17,038	18,803	20,762	22,156
				TWDB Table 2 Demands		7,170	9,764	10,783	11,795	12,907	13,650
				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	6,311	7,989	0	0	0	0
				Current Supply Less Demand		*-859*	*-1,775*	*-10,783*	*-11,795*	*-12,907*	*-13,650*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	969	2,993	13,970	12,884	13,878	15,291
				Total Supply Less Demand		110	1,218	3,187	1,089	971	1,641
Balch Springs	30049000	Dallas	Trinity	Population		18,900	21,649	23,676	24,704	24,704	24,704
				TWDB Table 2 Demands		2,540	3,274	3,580	3,597	3,459	3,459
				TWDB Table 5 Supply	Lake Ray Hubbard (DWU thru Dallas County WCID #6)	605	703	0	0	0	0
					Tawakoni (DWU thru Dallas County WCID #6)	1,608	1,874	0	0	0	0
				Current Supply Less Demand		*-327*	*-697*	*-3,580*	*-3,597*	*-3,459*	*-3,459*
				TWDB Table 12 Strategies	Renewal of DWU Contract with Dallas County WCID #6	0	0	0	0	0	0
					Dallas County WCID #6 (DWU)	369	1,175	4,638	3,929	3,719	3,875
				Total Supply Less Demand		42	478	1,058	332	260	416
Carrollton	30147000	Dallas	Trinity	Population		55,947	60,662	64,252	65,840	65,096	64,343
(Partial)				TWDB Table 2 Demands		12,534	13,590	14,394	14,381	13,854	12,973

				TWDB Table 5 Supply	Trinity Aquifer	77	77	77	77	77	77
					Elm Fork/Lake Grapevine System (DWU)	10,965	11,056	0	0	0	0
				Current Supply Less Demand		*-1,492*	*-2,457*	*-14,317*	*-14,304*	*-13,777*	*-12,896*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	1,684	4,142	18,549	15,624	14,813	14,447
				Total Supply Less Demand		192	1,685	4,232	1,320	1,036	1,551
Cedar Hill	30151000	Dallas	Trinity	Population		30,600	40,602	51,706	66,148	83,625	87,318
(Partial)				TWDB Table 2 Demands		5,827	9,096	11,584	14,449	17,798	18,095
				TWDB Table 5 Supply	Trinity Aquifer	317	317	317	317	317	317
					Woodbine Aquifer	72	72	72	72	72	72
					Lake Ray Hubbard (DWU)	1,295	1,868	0	0	0	0
					Tawakoni (DWU)	3,442	4,983	0	0	0	0
					Joe Pool Lake	0	0	0	0	0	0
				Current Supply Less Demand		*-701*	*-1,856*	*-11,195*	*-14,060*	*-17,409*	*-17,706*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	791	3,129	14,502	15,357	18,719	19,836
				Total Supply Less Demand		90	1,273	3,307	1,297	1,310	2,130
Cockrell Hill	30182000	Dallas	Trinity	Population		4,207	4,260	4,387	4,442	4,442	4,442
				TWDB Table 2 Demands		660	668	688	672	647	647
				TWDB Table 5 Supply	Lake Ray Hubbard (DWU)	157	143	0	0	0	0
					Tawakoni (DWU)	418	382	0	0	0	0
				Current Supply Less Demand		*-85*	*-143*	*-688*	*-672*	*-647*	*-647*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	96	241	891	734	695	725
				Total Supply Less Demand		11	98	203	62	48	78
Combine	30193000	Dallas	Trinity	Population		504	590	682	792	845	937
(Partial)				TWDB Table 2 Demands		82	96	111	124	128	136
				TWDB Table 5 Supply	Lake Ray Hubbard (DWU thru Combine WSC)	20	21	25	36	35	36
					Tawakoni (DWU thru Combine WSC)	52	55	73	96	95	98
				Current Supply Less Demand		*-10*	*-20*	*-13*	*8*	*2*	*-2*
				TWDB Table 12 Strategies	Combine WSC (DWU)	11	34	17	0	0	4
				Total Supply Less Demand		1	14	4	8	2	2
Coppell	30201000	Dallas	Trinity	Population		34,847	40,441	41,463	42,512	43,587	44,689
				TWDB Table 2 Demands		8,197	10,872	11,147	11,191	11,229	11,513
				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	7,215	0	0	0	0	0
				Current Supply Less Demand		*-982*	*-10,872*	*-11,147*	*-11,191*	*-11,229*	*-11,513*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0

					DWU	1,108	18,326	14,443	12,254	12,070	12,916
				Total Supply Less Demand		126	7,454	3,296	1,063	841	1,403
Dallas	30227000	Dallas	Trinity	Population		1,028,671	1,061,990	1,094,223	1,127,506	1,169,749	1,211,933
(Partial)				TWDB Table 2 Demands		299,587	327,135	337,064	343,528	351,157	358,390
				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	52,741	60,222	101,520	140,285	134,200	136,302
					Lake Ray Hubbard (DWU)	57,099	54,398	61,957	61,191	60,180	59,035
					Tawakoni (DWU)	151,703	145,108	165,759	164,187	162,132	159,613
				Current Supply Less Demand		*-38,044*	*-67,407*	*-7,828*	*22,135*	*5,355*	*-3,440*
				TWDB Table 12 Strategies	DWU	41,471	69,400	10,000	0	0	6,000
				Total Supply Less Demand		3,427	1,993	2,172	22,135	5,355	2,560
De Soto	30234000	Dallas	Trinity	Population		37,550	47,649	57,243	65,849	73,881	82,923
				TWDB Table 2 Demands		8,202	11,208	13,465	15,121	16,551	18,113
				TWDB Table 5 Supply	Trinity Aquifer	74	74	74	74	74	74
					Lake Ray Hubbard (DWU)	1,936	2,389	0	0	0	0
					Tawakoni (DWU)	5,145	6,373	0	0	0	0
				Current Supply Less Demand		*-1,047*	*-2,372*	*-13,391*	*-15,047*	*-16,477*	*-18,039*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	1,182	3,999	17,349	16,446	17,717	20,208
				Total Supply Less Demand		135	1,627	3,958	1,399	1,240	2,169
Duncanville	30256000	Dallas	Trinity	Population		36,300	40,044	42,811	43,985	43,985	43,985
				TWDB Table 2 Demands		7,400	8,522	9,111	9,361	9,361	9,361
				TWDB Table 5 Supply	Lake Ray Hubbard (DWU)	1,763	1,829	0	0	0	0
					Tawakoni (DWU)	4,684	4,878	0	0	0	0
					Joe Pool Lake (TRA)	0	0	0	0	0	0
				Current Supply Less Demand		*-953*	*-1,815*	*-9,111*	*-9,361*	*-9,361*	*-9,361*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	1,076	3,060	11,803	10,224	10,065	10,487
				Total Supply Less Demand		123	1,245	2,692	863	704	1,126
Farmers Branch	30293000	Dallas	Trinity	Population		27,195	28,479	30,835	32,853	36,074	39,629
				TWDB Table 2 Demands		10,966	11,644	12,952	13,432	14,547	15,803
				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	9,652	9,527	0	0	0	0
				Current Supply Less Demand		*-1,314*	*-2,117*	*-12,952*	*-13,432*	*-14,547*	*-15,803*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	1,483	3,569	16,781	14,671	15,641	17,704
				Total Supply Less Demand		169	1,452	3,829	1,239	1,094	1,901
Garland	30334000	Dallas	Trinity	Population		205,456	223,250	234,938	234,930	234,918	234,904
(Partial)				TWDB Table 2 Demands		37,053	37,011	37,106	37,105	37,103	37,101
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	21,903	16,238	13,101	11,183	9,717	8,771
					Lake Texoma (NTMWD)	12,108	9,086	7,419	6,416	5,649	5,172

					Chapman (NTMWD)	8,487	6,257	5,064	4,349	3,802	3,450
				Current Supply Less Demand		*5,445*	*-5,430*	*-11,522*	*-15,157*	*-17,935*	*-19,708*
				TWDB Table 12 Strategies	NTMWD	0	8,590	17,390	22,494	19,652	23,412
				Total Supply Less Demand		5,445	3,160	5,868	7,337	1,717	3,704
Glenn Heights	30344000	Dallas	Trinity	Population		5,640	6,602	7,519	8,391	9,199	10,089
(Partial)				TWDB Table 2 Demands		948	1,109	1,263	1,410	1,546	1,695
				TWDB Table 5 Supply	Woodbine Aquifer	309	309	309	309	309	309
					Lake Ray Hubbard (DWU)	152	172	200	0	0	0
					Tawakoni (DWU)	404	458	640	0	0	0
				Current Supply Less Demand		*-83*	*-170*	*-114*	*-1,101*	*-1,237*	*-1,386*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	94	287	147	1,203	1,331	1,553
				Total Supply Less Demand		11	117	33	102	94	167
Grand Prairie	30353000	Dallas	Trinity	Population		90,600	97,782	99,333	102,879	105,084	106,586
(Partial)				TWDB Table 2 Demands		16,238	16,977	17,803	17,286	17,068	16,715
				TWDB Table 5 Supply	Trinity Aquifer	2,342	2,342	2,342	2,342	2,342	2,342
					Elm Fork/Lake Grapevine System (DWU)	12,084	11,837	0	0	0	0
					TRWD CC/RC (FW)	0	0	0	0	0	0
					Joe Pool Lake (TRA)	168	168	168	153	148	144
				Current Supply Less Demand		*-1,644*	*-2,630*	*-15,293*	*-14,791*	*-14,578*	*-14,229*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	1,855	4,434	19,813	16,156	15,674	15,941
				Total Supply Less Demand		211	1,804	4,520	1,365	1,096	1,712
Grapevine	30360000	Dallas	Trinity	Population		99	110	122	133	146	156
(Partial)				TWDB Table 2 Demands		20	25	27	28	31	32
				TWDB Table 5 Supply	Lake Grapevine (Grapevine)	22	22	22	22	22	22
				Current Supply Less Demand		*2*	*-3*	*-5*	*-6*	*-9*	*-10*
				TWDB Table 12 Strategies	DWU (new customer)	0	3	5	6	9	10
					Direct Reuse	0	5	10	10	15	15
				Total Supply Less Demand		2	5	10	10	15	15
Highland Park	30402000	Dallas	Trinity	Population		9,476	9,912	10,368	10,844	11,343	11,858
				TWDB Table 2 Demands		3,822	3,842	3,856	3,984	4,117	4,290
				TWDB Table 5 Supply	Lake Grapevine (Park Cities MUD)	4,154	4,223	4,281	4,327	4,376	4,393
				Current Supply Less Demand		*332*	*381*	*425*	*343*	*259*	*103*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		332	381	425	343	259	103
Hutchins	30429000	Dallas	Trinity	Population		2,753	3,262	3,958	4,903	6,113	7,603
				TWDB Table 2 Demands		694	932	1,153	1,428	1,746	2,129

				TWDB Table 5 Supply	Lake Ray Hubbard (DWU)	165	200	0	0	0	0
					Tawakoni (DWU)	439	533	0	0	0	0
				Current Supply Less Demand		*-90*	*-199*	*-1,153*	*-1,428*	*-1,746*	*-2,129*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	101	336	1,493	1,559	1,876	2,385
				Total Supply Less Demand		11	137	340	131	130	256
Irving	30437000	Dallas	Trinity	Population		186,496	197,904	215,304	239,488	264,586	289,423
				TWDB Table 2 Demands		43,869	50,987	55,469	60,359	65,202	70,026
				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	38,614	4,582	7,524	0	0	0
				Current Supply Less Demand		*-5,255*	*-46,405*	*-47,945*	*-60,359*	*-65,202*	*-70,026*
				TWDB Table 12 Strategies	Lake Chapman (self)	0	50,200	49,900	49,500	49,100	48,800
					Marvin Nichols I (Phase I)	0	0	0	20,000	20,000	20,000
					Marvin Nichols I (Phase II)	0	0	0	0	0	5,000
					DWU contract	5,931	1,716	0	0	0	0
				Total Supply Less Demand		676	5,511	1,955	9,141	3,898	3,774
Lancaster	30509000	Dallas	Trinity	Population		24,487	28,031	30,606	31,993	31,993	31,993
				TWDB Table 2 Demands		4,306	4,867	5,314	5,376	5,196	5,017
				TWDB Table 5 Supply	Trinity Aquifer	220	220	220	220	220	220
					Lake Ray Hubbard (DWU)	973	997	0	0	0	0
					Tawakoni (DWU)	2,586	2,660	0	0	0	0
				Current Supply Less Demand		*-527*	*-990*	*-5,094*	*-5,156*	*-4,976*	*-4,797*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	594	1,669	6,599	5,632	5,351	5,373
				Total Supply Less Demand		67	679	1,505	476	375	576
Lewisville	30519000	Dallas	Trinity	Population		768	1,021	1,352	1,611	1,869	2,168
(Partial)				TWDB Table 2 Demands		181	252	348	415	471	534
				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	159	206	0	0	0	0
				Current Supply Less Demand		*-22*	*-46*	*-348*	*-415*	*-471*	*-534*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	25	77	451	453	505	599
				Total Supply Less Demand		3	31	103	38	34	65
Mesquite	30592000	Dallas	Trinity	Population		117,742	138,042	159,638	180,723	200,956	221,454
				TWDB Table 2 Demands		21,762	25,513	29,505	33,402	37,141	36,465
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	12,865	11,193	10,417	10,069	9,727	8,621
					Lake Texoma (NTMWD)	7,111	6,263	5,897	5,776	5,656	5,081
					Chapman (NTMWD)	4,985	4,310	4,029	3,916	3,804	3,392
				Current Supply Less Demand		*3,199*	*-3,747*	*-9,162*	*-13,641*	*-17,954*	*-19,371*
				TWDB Table 12 Strategies	NTMWD	0	5,928	13,828	20,243	19,673	23,011
				Total Supply Less Demand		3,199	2,181	4,666	6,602	1,719	3,640

Ovilla	30663000	Dallas	Trinity	Population		319	366	424	483	532	586
(Partial)				TWDB Table 2 Demands		75	86	97	108	116	128
				TWDB Table 5 Supply	Lake Ray Hubbard (DWU thru Cedar Hill)	18	18	0	0	0	0
					Tawakoni (DWU thru Cedar Hill)	47	49	0	0	0	0
				Current Supply Less Demand		*-10*	*-19*	*-97*	*-108*	*-116*	*-128*
				TWDB Table 12 Strategies	Renewal of DWU Contract (thru Cedar Hill)	0	0	0	0	0	0
					DWU (thru Cedar Hill)	11	32	126	118	124	143
				Total Supply Less Demand		1	13	29	10	8	15
Richardson	30747000	Dallas	Trinity	Population		76,772	84,580	90,993	94,442	97,082	99,739
(Partial)				TWDB Table 2 Demands		23,649	26,054	27,112	27,717	28,165	28,824
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	13,981	11,430	9,572	8,355	7,376	6,814
					Lake Texoma (NTMWD)	7,728	6,396	5,419	4,793	4,289	4,017
					Chapman (NTMWD)	5,417	4,402	3,702	3,249	2,885	2,681
				Current Supply Less Demand		*3,477*	*-3,826*	*-8,419*	*-11,320*	*-13,615*	*-15,312*
				TWDB Table 12 Strategies	NTMWD	0	6,053	12,707	16,799	14,918	18,190
				Total Supply Less Demand		3,477	2,227	4,288	5,479	1,303	2,878
Rowlett	30777000	Dallas	Trinity	Population		35,671	46,344	57,607	66,599	71,153	77,924
(Partial)				TWDB Table 2 Demands		7,472	9,085	10,712	12,160	12,912	14,053
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	4,417	3,986	3,782	3,666	3,382	3,322
					Lake Texoma (NTMWD)	2,442	2,230	2,141	2,103	1,966	1,958
					Chapman (NTMWD)	1,712	1,535	1,463	1,426	1,323	1,307
				Current Supply Less Demand		*1,099*	*-1,334*	*-3,326*	*-4,965*	*-6,241*	*-7,466*
				TWDB Table 12 Strategies	NTMWD	0	2,110	5,020	7,369	6,839	8,870
				Total Supply Less Demand		1,099	776	1,694	2,404	598	1,404
Sachse	30784000	Dallas	Trinity	Population		9,082	15,948	18,735	21,435	23,800	25,423
(Partial)				TWDB Table 2 Demands		1,709	3,287	3,715	4,226	4,639	4,955
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	1,010	1,442	1,312	1,274	1,215	1,171
					Lake Texoma (NTMWD)	558	807	743	731	706	690
					Chapman (NTMWD)	391	555	507	495	475	461
				Current Supply Less Demand		*250*	*-483*	*-1,153*	*-1,726*	*-2,243*	*-2,633*
				TWDB Table 12 Strategies	NTMWD	0	764	1,740	2,561	2,457	3,128
				Total Supply Less Demand		250	281	587	835	214	495
Seagoville	30812000	Dallas	Trinity	Population		10,559	16,651	19,156	21,315	23,651	25,474
				TWDB Table 2 Demands		1,774	2,891	3,433	3,820	4,106	4,280
				TWDB Table 5 Supply	Lake Ray Hubbard (DWU)	423	620	0	0	0	0
					Tawakoni (DWU)	1,123	1,655	0	0	0	0
				Current Supply Less Demand		*-228*	*-616*	*-3,433*	*-3,820*	*-4,106*	*-4,280*

				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	257	1,038	4,448	4,172	4,416	4,794
				Total Supply Less Demand		29	422	1,015	352	310	514
Sunnyvale	30871000	Dallas	Trinity	Population		3,000	5,800	7,700	8,100	8,350	8,595
				TWDB Table 2 Demands		837	1,715	2,191	2,277	2,301	2,320
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	495	752	774	686	603	548
					Lake Texoma (NTMWD)	274	421	438	394	350	323
					Chapman (NTMWD)	192	290	299	267	236	216
				Current Supply Less Demand		*124*	*-252*	*-680*	*-930*	*-1,112*	*-1,233*
				TWDB Table 12 Strategies	NTMWD	0	399	1,027	1,380	1,218	1,465
				Total Supply Less Demand		124	147	347	450	106	232
University Park	30920000	Dallas	Trinity	Population		24,090	24,692	25,310	25,942	26,591	27,319
				TWDB Table 2 Demands		6,314	6,196	6,095	6,131	6,166	6,304
				TWDB Table 5 Supply	Lake Grapevine (Park Cities MUD)	6,646	6,577	6,519	6,473	6,424	6,407
				Current Supply Less Demand		*332*	*381*	*424*	*342*	*258*	*103*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		332	381	424	342	258	103
Wilmer	30975000	Dallas	Trinity	Population		2,669	2,844	3,031	3,159	3,159	3,159
				TWDB Table 2 Demands		359	446	492	495	478	478
				TWDB Table 5 Supply	Trinity Aquifer	223	223	223	223	223	223
				Current Supply Less Demand		*-136*	*-223*	*-269*	*-272*	*-255*	*-255*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	136	0	0	0	0	0
					DWU (new customer)	0	376	348	297	274	286
				Total Supply Less Demand		0	153	79	25	19	31
County-Other	30996057	Dallas	Trinity	Population		11,656	62,029	142,383	233,900	358,656	448,483
				TWDB Table 2 Demands		4,499	21,833	46,716	75,862	115,110	143,637
				TWDB Table 5 Supply	Trinity Aquifer	262	262	262	262	262	262
					Woodbine Aquifer	184	184	184	184	184	184
					Other Aquifer	58	58	58	58	58	58
					DWU Elm Fork	2,385	9,889	10,706	12,836	12,271	11,970
					Lake Ray Hubbard (DWU)	215	865	1,120	1,166	1,107	1,077
					Tawakoni (DWU)	572	2,306	2,999	3,129	2,983	2,913
					Reuse (TRA)	8,000	8,000	8,000	8,000	8,000	8,000
					NTMWD Lake Lavon/Reuse	1	1	0	0	0	0
					Lake Texoma (NTMWD)	1	0	0	0	0	0
					Chapman (NTMWD)	0	0	0	0	0	0
				Current Supply Less Demand		*7,179*	*-268*	*-23,387*	*-50,227*	*-90,245*	*-119,173*
				TWDB Table 12 Strategies	DWU	0	452	7,100	3,466	4,241	4,867
					Increase supply from DWU	0	0	0	6,000	31,000	25,000
					New Dallas County (Marvin Nichols I-Phase I)	0	0	0	12,000	12,000	12,000

					New Dallas County (Marvin Nichols I-Phase II)	0	0	0	0	0	27,000
					TRA Reuse (Las Colinas)	0	7,000	7,000	7,000	7,000	7,000
					TRA Reuse Phase I (Joe Pool Lake)	0	0	7,000	14,000	14,000	14,000
					TRA Reuse Phase II (Joe Pool Lake)	0	0	0	0	7,000	14,000
					TRA Reuse Phase I (Lake Grapevine)	0	0	4,000	8,000	8,000	8,000
					TRA Reuse Phase II (Lake Grapevine)	0	0	0	0	8,000	8,000
				Total Supply Less Demand		7,179	7,184	1,713	239	996	694
Irrigation	31004057	Dallas	Tirnity	TWDB Table 2 Demands		100	100	100	100	100	100
				TWDB Table 5 Supply	Other Aquifer	533	533	533	533	533	533
					Irrigation Local Supply	3,387	2,719	2,719	2,719	2,719	2,719
				Current Supply Less Demand		*3,820*	*3,152*	*3,152*	*3,152*	*3,152*	*3,152*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		3,820	3,152	3,152	3,152	3,152	3,152
Livestock	31005057	Dallas	Trinity	TWDB Table 2 Demands		718	718	718	718	718	718
				TWDB Table 5 Supply	Woodbine Aquifer	89	89	89	89	89	89
					Livestock Local Supply	712	712	712	712	712	712
				Current Supply Less Demand		*83*	*83*	*83*	*83*	*83*	*83*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		83	83	83	83	83	83
Manufacturing	31001057	Dallas	Trinity	TWDB Table 2 Demands		33,506	38,926	43,539	47,420	56,142	65,850
				TWDB Table 5 Supply	Trinity Aquifer	271	271	271	271	271	271
					Woodbine Aquifer	767	767	767	767	767	767
					Elm Fork/Lake Grapevine System (DWU)	11,019	13,258	18,112	28,000	32,623	37,969
					Elm Fork/Lake Grapevine System (DWU thru Irving)	2,575	2,393	2,591	0	0	0
					Lake Ray Hubbard (DWU)	1,577	1,759	2,784	3,270	3,784	4,393
					Tawakoni (DWU)	4,190	4,692	7,456	8,774	10,195	11,879
					Lake Grapevine	109	109	109	109	109	109
					NTMWD Lake Lavon/Reuse	4,358	3,302	2,147	1,714	1,616	1,658
					Lake Texoma (NTMWD)	2,409	1,848	1,215	983	940	977
					Chapman (NTMWD)	1,689	1,272	830	666	632	652
				Current Supply Less Demand		*-4,542*	*-9,255*	*-7,257*	*-2,866*	*-5,205*	*-7,175*
				TWDB Table 12 Strategies	NTMWD	0	1,935	636	601	789	1,444
					Renewal of DWU Contract	0	0	0	0	0	0
					Additional Supply from Irving (DWU)	350	0	0	0	0	0

					Additional Supply from Irving (Chapman)	0	532	334	2,925	2,925	2,925
					DWU	4,732	12,644	8,423	0	1,678	3,401
				Total Supply Less Demand		890	7,611	2,891	3,526	3,832	4,736
Mining	31003057	Dallas	Trinity	TWDB Table 2 Demands		3,867	4,376	5,124	5,878	6,638	7,498
				TWDB Table 5 Supply	Trinity Aquifer	992	992	992	992	992	992
					Other Local Supply	1,525	1,525	1,525	1,525	1,525	1,525
				Current Supply Less Demand		*-1,350*	*-1,859*	*-2,607*	*-3,361*	*-4,121*	*-4,981*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	1,350	1,859	0	0	0	0
					DWU (new customer)	0	0	3,378	3,672	4,431	5,580
				Total Supply Less Demand		0	0	771	311	310	599
Steam Electric Power	31002057	Dallas	Trinity	TWDB Table 2 Demands		18,000	20,000	25,000	25,000	25,000	25,000
				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	8,406	7,814	8,460	9,550	9,550	0
					Mountain Creek Lake	6,400	6,400	6,400	6,400	6,400	6,400
					Elm Fork/Lake Grapevine System (DWU)	264	245	266	300	300	297
					Lake Ray Hubbard (DWU)	715	644	0	0	0	0
					Tawakoni (DWU)	1,899	1,717	0	0	0	0
					Trinity Aquifer	186	186	186	186	186	186
					NTMWD Lake Lavon/Reuse	123	88	91	70	56	70
					Lake Texoma (NTMWD)	68	49	51	40	32	41
					Chapman (NTMWD)	48	34	35	27	22	28
				Current Supply Less Demand		*109*	*-2,823*	*-9,511*	*-8,427*	*-8,454*	*-17,978*
				TWDB Table 12 Strategies	NTMWD	0	45	121	139	112	186
					DWU	113	3,000	3,390	3,000	3,000	3,000
					Renew TXU's Northlake Contract in 2040	0	0	0	0	0	9,550
					Renew TXU's Ray Hubbard Contract in 2020	0	0	3,000	3,000	3,000	3,000
					TRA Reuse (Mountain Creek)	0	0	3,000	3,000	3,000	3,000
				Total Supply Less Demand		222	222	0	712	658	758

Denton County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Argyle	30036000	Denton	Trinity	Population		2,226	7,081	11,935	14,983	16,550	18,282
				TWDB Table 2 Demands		521	1,785	3,338	3,944	4,171	4,096
				TWDB Table 5 Supply	Trinity Aquifer	132	132	132	111	111	111
					UTRWD (DWU - Elm Fork)	389	1,352	2,840	0	0	0
				Current Supply Less Demand		*0*	*-301*	*-366*	*-3,833*	*-4,060*	*-3,985*

				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	483	236	0	0	0
					UTRWD (reuse)	0	477	224	0	0	0
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (DWU)	0	0	0	4,186	4,365	4,465
				Total Supply Less Demand		0	659	94	353	305	480
Aubrey	30043000	Denton	Trinity	Population		1,472	1,955	2,562	3,358	4,321	7,739
				TWDB Table 2 Demands		165	274	430	602	750	1,300
				TWDB Table 5 Supply	Trinity Aquifer	85	85	85	71	71	71
					UTRWD (DWU - Elm Fork)	80	155	306	0	0	0
				Current Supply Less Demand		*0*	*-34*	*-39*	*-531*	*-679*	*-1,229*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	55	25	119	131	205
					UTRWD (reuse)	0	54	24	113	124	195
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (DWU)	0	0	0	325	456	928
				Total Supply Less Demand		0	75	10	26	32	99
Bartonville	30058000	Denton	Trinity	Population		1,400	4,975	7,224	9,337	11,271	12,085
				TWDB Table 2 Demands		298	1,226	1,740	2,196	2,588	2,707
				TWDB Table 5 Supply	Trinity Aquifer	31	31	31	26	26	26
					Bartonville WSC (UTRWD from DWU Elm Fork System)	267	978	1,514	0	0	0
				Current Supply Less Demand		*0*	*-217*	*-195*	*-2,170*	*-2,562*	*-2,681*
				TWDB Table 12 Strategies	Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (Lake Chapman)	0	348	125	0	0	0
					UTRWD (reuse)	0	344	119	0	0	0
					UTRWD (DWU)	0	0	0	2,370	2,754	3,003
				Total Supply Less Demand		0	475	49	200	192	322
Carrollton	30147000	Denton	Trinity	Population		48,645	56,008	61,351	64,222	64,966	65,719
(Partial)				TWDB Table 2 Demands		10,898	12,547	13,744	14,028	13,827	13,251
				TWDB Table 5 Supply	Trinity Aquifer	62	62	62	52	52	52
					Elm Fork/Lake Grapevine System (DWU)	9,538	10,215	0	0	0	0
				Current Supply Less Demand		*-1,298*	*-2,270*	*-13,682*	*-13,976*	*-13,775*	*-13,199*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	1,464	3,827	17,725	15,265	14,812	14,787
				Total Supply Less Demand		166	1,557	4,043	1,289	1,037	1,588
Copper Canyon	30202000	Denton	Trinity	Population		1,507	2,841	4,124	5,331	6,435	6,900

				TWDB Table 2 Demands		321	796	1,270	1,254	1,478	1,546
				TWDB Table 5 Supply	Trinity Aquifer	54	54	54	45	45	45
					Bartonville WSC (UTRWD from DWU Elm Fork System)	267	607	1,077	0	0	0
				Current Supply Less Demand		*0*	*-135*	*-139*	*-1,209*	*-1,433*	*-1,501*
				TWDB Table 12 Strategies	Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (Lake Chapman)	0	216	89	0	0	0
					UTRWD (reuse)	0	214	85	0	0	0
					UTRWD thru Bartonville WSC (DWU)	0	0	0	1,320	1,541	1,682
				Total Supply Less Demand		0	295	35	111	108	181
Corinth	30204000	Denton	Trinity	Population		11,500	19,620	25,000	27,000	29,000	30,632
				TWDB Table 2 Demands		2,254	4,395	6,301	6,805	6,497	6,519
				TWDB Table 5 Supply	Trinity Aquifer	107	107	107	90	90	90
					UTRWD (Denton - Lake Ray Roberts)	932	0	0	0	0	0
					UTRWD (DWU - Elm Fork)	1,215	3,508	5,487	0	0	0
				Current Supply Less Demand		*0*	*-780*	*-707*	*-6,715*	*-6,407*	*-6,429*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	1,251	455	1,509	1,233	1,072
					UTRWD (reuse)	0	1,236	433	1,433	1,171	1,017
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (DWU)	0	0	0	4,121	4,304	4,862
				Total Supply Less Demand		0	1,707	181	348	301	522
Crossroads	30000000	Denton	Trinity	Population		524	1,500	3,899	6,351	10,594	18,902
				TWDB Table 2 Demands		59	210	655	1,138	1,661	2,964
				TWDB Table 5 Supply	UTRWD thru Mustang WSC (DWU - Elm Fork)	59	172	580	0	0	0
				Current Supply Less Demand		*0*	*-38*	*-75*	*-1,138*	*-1,661*	*-2,964*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	61	48	256	320	494
					UTRWD (reuse)	0	60	46	243	303	469
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD thru Mustang WSC (DWU)	0	0	0	699	1,115	2,242
				Total Supply Less Demand		0	83	19	60	77	241
Dallas	30227000	Denton	Trinity	Population		18,217	19,748	21,854	25,203	28,484	32,192
(Partial)				TWDB Table 2 Demands		5,305	6,083	6,732	7,679	8,551	9,520

				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	934	1,120	2,028	3,136	3,268	3,621
					Lake Ray Hubbard (DWU)	1,011	1,011	1,235	1,368	1,465	1,568
					Tawakoni (DWU)	2,686	2,698	3,308	3,670	3,948	4,240
				Current Supply Less Demand		*-674*	*-1,254*	*-161*	*495*	*130*	*-91*
				TWDB Table 12 Strategies	DWU	760	2,114	209	0	0	102
				Total Supply Less Demand		86	860	48	495	130	11
Denton	30240000	Denton	Trinity	Population		79,500	110,000	162,800	207,100	248,700	298,700
				TWDB Table 2 Demands		18,790	24,520	34,648	43,149	51,259	61,229
				TWDB Table 5 Supply	Lake Lewisville (Denton)	4,870	4,830	4,790	4,760	4,720	4,680
					Lake Ray Roberts (Denton)	18,865	20,579	21,780	21,580	21,430	21,280
					DWU (Elm Fork)	219	335	0	0	0	0
					DWU (Elm Fork)	493	458	0	0	0	0
					UTRWD (DWU - Elm Fork)	4	2	4	0	0	0
				Current Supply Less Demand		5,661	1,684	-8,074	-16,809	-25,109	-35,269
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	0	0	10,459	18,360	26,998	39,512
				Total Supply Less Demand		5,661	1,684	2,385	1,551	1,889	4,243
Double Oak	30251000	Denton	Trinity	Population		2,327	3,058	3,643	4,200	4,350	4,500
				TWDB Table 2 Demands		495	754	877	988	999	1,008
				TWDB Table 5 Supply	Trinity Aquifer	90	90	90	75	75	75
					Bartonville WSC (UTRWD from DWU Elm Fork System)	405	543	697	0	0	0
				Current Supply Less Demand		*0*	*-121*	*-90*	*-913*	*-924*	*-933*
				TWDB Table 12 Strategies	Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (Lake Chapman)	0	194	58	0	0	0
					UTRWD (reuse)	0	192	55	0	0	0
					UTRWD (DWU)	0	0	0	997	992	1,045
				Total Supply Less Demand		0	265	23	84	68	112
Flower Mound	30301000	Denton	Trinity	Population		48,000	71,052	95,488	115,263	133,767	147,762
				TWDB Table 2 Demands		10,216	17,509	24,066	27,113	29,968	31,448
				TWDB Table 5 Supply	DWU (Elm Fork)	4,496	4,586	0	0	0	0
					UTRWD (DWU - Elm Fork)	5,108	9,740	16,353	0	0	0
				Current Supply Less Demand		*-612*	*-3,183*	*-7,713*	*-27,113*	*-29,968*	*-31,448*
				TWDB Table 12 Strategies	Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (Lake Chapman)	0	3,469	1,357	0	0	0
					UTRWD (reuse)	0	3,430	1,291	0	0	0

					UTRWD (DWU)	0	0	0	23,492	26,195	28,951
					Renewal of DWU Contract	0	0	0	0	0	0
					DWU	711	2,354	8,968	8,968	8,968	8,968
				Total Supply Less Demand		99	6,070	3,903	5,347	5,195	6,471
Frisco	30319000	Denton	Trinity	Population		603	1,406	1,629	1,962	2,114	2,271
(Partial)				TWDB Table 2 Demands		183	465	526	631	677	728
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	108	204	186	190	177	172
					Lake Texoma (NTMWD)	59	114	105	109	103	101
					Chapman (NTMWD)	42	79	72	74	69	68
				Current Supply Less Demand		*26*	*-68*	*-163*	*-258*	*-328*	*-387*
				TWDB Table 12 Strategies	NTMWD	0	108	246	382	360	459
				Total Supply Less Demand		26	40	83	124	32	72
Hebron	30390000	Denton	Trinity	Population		1,590	2,156	2,798	3,484	4,058	4,727
				TWDB Table 2 Demands		214	362	627	683	682	794
				TWDB Table 5 Supply	Woodbine Aquifer	14	14	14	14	14	14
				Current Supply Less Demand		*-200*	*-348*	*-613*	*-669*	*-668*	*-780*
				TWDB Table 12 Strategies	Overdraft Woodbine Aquifer	200	0	0	0	0	0
					UTRWD (Lake Chapman) new customer	0	558	395	150	129	130
					UTRWD (reuse) new customer	0	552	375	143	122	123
					UTRWD (DWU) new customer	0	0	0	411	448	590
				Total Supply Less Demand		0	762	157	35	31	63
Hickory Creek	30399000	Denton	Trinity	Population		2,354	3,542	5,208	6,474	7,612	8,409
				TWDB Table 2 Demands		324	694	1,167	1,305	1,450	1,601
				TWDB Table 5 Supply	Trinity Aquifer	74	74	74	62	62	62
					Lake Cities MUA (UTRWD from DWU Elm Fork)	250	507	968	0	0	0
				Current Supply Less Demand		*0*	*-113*	*-125*	*-1,243*	*-1,388*	*-1,539*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	181	80	279	267	257
					UTRWD (reuse)	0	179	77	265	254	244
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD thru Lake Cities MUA (DWU)	0	0	0	764	932	1,163
				Total Supply Less Demand		0	247	32	65	65	125
Highland Village	30403000	Denton	Trinity	Population		13,400	18,500	19,000	19,500	20,000	20,500
				TWDB Table 2 Demands		2,882	4,352	4,150	4,150	4,033	4,133
				TWDB Table 5 Supply	Trinity Aquifer	931	931	931	780	780	780

					UTRWD (Denton - Lake Lewisville)	932	0	0	0	0	0
					UTRWD (DWU - Elm Fork)	1,019	2,799	2,852	0	0	0
				Current Supply Less Demand		*0*	*-622*	*-367*	*-3,370*	*-3,253*	*-3,353*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	998	238	758	621	565
					UTRWD (reuse)	0	986	225	719	594	531
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (DWU)	0	0	0	2,068	2,190	2,528
				Total Supply Less Demand		0	1,362	96	175	152	271
Justin	30456000	Denton	Trinity	Population		1,860	2,710	4,480	7,228	11,878	14,112
				TWDB Table 2 Demands		313	455	878	1,376	2,195	2,608
				TWDB Table 5 Supply	Trinity Aquifer	133	133	133	111	111	111
				Current Supply Less Demand		*-180*	*-322*	*-745*	*-1,265*	*-2,084*	*-2,497*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	180	0	0	0	0	0
					UTRWD (Lake Chapman)	0	516	479	0	0	0
					UTRWD (reuse)	0	510	456	0	0	0
					UTRWD (DWU)	0	0	0	1,382	2,241	2,798
				Total Supply Less Demand		0	704	190	117	157	301
Krugerville	30481000	Denton	Trinity	Population		1,105	1,326	1,521	1,767	2,123	2,560
				TWDB Table 2 Demands		124	186	213	297	357	401
				TWDB Table 5 Supply	Trinity Aquifer	47	47	47	39	39	39
				Current Supply Less Demand		*-77*	*-139*	*-166*	*-258*	*-318*	*-362*
				TWDB Table 12 Strategies	Add New Well & Overdraft Trinity Aquifer	77	0	0	0	0	0
					UTRWD (Lake Chapman) new customer	0	223	107	58	61	60
					UTRWD (reuse) new customer	0	220	102	55	58	57
					UTRWD (DWU) new customer	0	0	0	158	214	274
				Total Supply Less Demand		0	304	43	13	15	29
Krum	30482000	Denton	Trinity	Population		2,444	3,271	4,212	5,222	6,071	7,058
				TWDB Table 2 Demands		381	550	727	965	1,122	1,265
				TWDB Table 5 Supply	Trinity Aquifer	117	117	117	98	98	98
				Current Supply Less Demand		*-264*	*-433*	*-610*	*-867*	*-1,024*	*-1,167*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	264	0	0	0	0	0
					UTRWD (Lake Chapman) new customer	0	694	393	195	197	195
					UTRWD (reuse) new customer	0	686	373	185	187	185

					UTRWD (DWU) new customer	0	0	0	531	688	882
				Total Supply Less Demand		0	947	156	44	48	95
Lake Dallas	30498000	Denton	Trinity	Population		6,272	8,100	9,500	10,100	10,789	11,544
				TWDB Table 2 Demands		962	1,361	1,660	1,697	1,813	1,810
				TWDB Table 5 Supply	Trinity Aquifer	184	184	184	154	154	154
					Lake Cities MUA (UTRWD from DWU Elm Fork)	778	963	1,307	0	0	0
				Current Supply Less Demand		*0*	*-214*	*-169*	*-1,543*	*-1,659*	*-1,656*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	343	109	347	319	276
					UTRWD (reuse)	0	339	103	329	303	262
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD thru Lake Cities MUA (DWU)	0	0	0	947	1,115	1,252
				Total Supply Less Demand		0	468	43	80	78	134
Lewisville	30519000	Denton	Trinity	Population		77,063	110,179	138,648	155,534	163,312	171,462
(Partial)				TWDB Table 2 Demands		18,128	27,152	35,720	40,071	41,160	42,254
				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	9,210	14,766	0	0	0	0
					Elm Fork/Lake Grapevine System (DWU)	6,588	6,123	0	0	0	0
				Current Supply Less Demand		*-2,330*	*-6,263*	*-35,720*	*-40,071*	*-41,160*	*-42,254*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	0	4,954	2,704	2,524	2,368
					UTRWD (reuse)	0	0	4,712	2,570	2,400	2,252
					UTRWD (DWU)	0	0	0	7,397	8,828	10,765
					Renewal of DWU Contract	0	0	0	0	0	0
					DWU	2,457	6,460	28,025	28,025	28,025	28,025
				Total Supply Less Demand		127	197	1,971	625	617	1,156
Lincoln Park	30000000	Denton	Trinity	Population		500	704	1,042	1,401	2,087	2,772
				TWDB Table 2 Demands		56	95	146	235	351	435
				TWDB Table 5 Supply	Trinity Aquifer	61	61	61	51	51	51
					UTRWD thru Mustang WSC (DWU - Elm Fork)	5	14	38	0	0	0
					UTRWD (DWU - Elm Fork)	5	14	38	0	0	0
				Current Supply Less Demand		*15*	*-6*	*-9*	*-184*	*-300*	*-384*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	10	6	41	58	64
					UTRWD (reuse)	0	10	6	39	55	61
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD thru Mustang WSC (DWU)	0	0	0	114	200	289

				Total Supply Less Demand		15	14	3	10	13	30
Little Elm	30527000	Denton	Trinity	Population		2,342	3,815	6,214	9,198	11,212	12,385
				TWDB Table 2 Demands		341	598	1,044	1,494	1,821	1,942
				TWDB Table 5 Supply	Woodbine Aquifer	107	107	107	107	107	107
				Current Supply Less Demand		*-234*	*-491*	*-937*	*-1,387*	*-1,714*	*-1,835*
				TWDB Table 12 Strategies	Add New Well & Overdraft Woodbine Aquifer	234	0	0	0	0	0
					NTMWD (new customer)	0	776	1,414	2,059	1,879	2,180
				Total Supply Less Demand		0	285	477	672	165	345
Northlake	30000000	Denton	Trinity	Population		600	5,000	10,000	20,000	30,000	40,000
				TWDB Table 2 Demands		83	840	2,240	3,921	5,713	7,393
				TWDB Table 5 Supply	TRWD West Fork (FW)	49	744	0	0	0	0
					Woodbine Aquifer	39	39	39	39	39	39
				Current Supply Less Demand		*5*	*-57*	*-2,201*	*-3,882*	*-5,674*	*-7,354*
				TWDB Table 12 Strategies	Renew FW Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	110	2,375	4,504	4,871	7,070
					UTRWD (Lake Chapman)	0	22	467	0	0	0
					UTRWD (reuse)	0	22	445	0	0	0
					UTRWD (DWU)	0	0	0	1,399	2,014	2,761
				Total Supply Less Demand		5	97	1,086	2,021	1,211	2,477
Oak Point	30648000	Denton	Trinity	Population		1,251	2,442	5,273	8,280	10,744	11,867
				TWDB Table 2 Demands		161	410	1,034	1,484	1,685	1,861
				TWDB Table 5 Supply	Trinity Aquifer	37	37	37	31	31	31
					UTRWD (DWU - Elm Fork)	124	305	883	0	0	0
				Current Supply Less Demand		*0*	*-68*	*-114*	*-1,453*	*-1,654*	*-1,830*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	109	73	326	318	305
					UTRWD (reuse)	0	108	70	310	302	290
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (DWU)	0	0	0	892	1,112	1,383
				Total Supply Less Demand		0	149	29	75	78	148
Pilot Point	30695000	Denton	Trinity	Population		3,652	4,770	5,910	7,573	8,738	10,082
				TWDB Table 2 Demands		552	801	1,026	1,357	1,468	1,694
				TWDB Table 5 Supply	Trinity Aquifer	273	273	273	229	229	229
				Current Supply Less Demand		*-279*	*-528*	*-753*	*-1,128*	*-1,239*	*-1,465*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	279	0	0	0	0	0
					UTRWD (Lake Chapman) new customer	0	846	485	253	238	244
					UTRWD (reuse) new customer	0	837	461	241	226	232

					UTRWD (DWU) new customer	0	0	0	692	834	1,107
				Total Supply Less Demand		0	1,155	193	58	59	118
Plano	30704000	Denton	Trinity	Population		57	78	100	130	152	175
(Partial)				TWDB Table 2 Demands		17	24	30	38	44	51
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	10	11	11	11	12	12
					Lake Texoma (NTMWD)	6	6	6	7	7	7
					Chapman (NTMWD)	4	4	4	4	5	5
				Current Supply Less Demand		*3*	*-3*	*-9*	*-16*	*-20*	*-27*
				TWDB Table 12 Strategies	NTMWD	0	5	14	23	22	32
				Total Supply Less Demand		3	2	5	7	2	5
Ponder	30000000	Denton	Trinity	Population		580	1,718	3,710	5,826	7,559	8,350
				TWDB Table 2 Demands		65	241	623	1,044	1,270	1,403
				TWDB Table 5 Supply	Trinity Aquifer	79	79	79	66	66	66
				Current Supply Less Demand		*14*	*-162*	*-544*	*-978*	*-1,204*	*-1,337*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman) new customer	0	260	350	0	0	0
					UTRWD (reuse) new customer	0	257	333	0	0	0
					UTRWD (DWU) new customer	0	0	0	1,068	1,294	1,497
				Total Supply Less Demand		14	355	139	90	90	160
Roanoke	30758000	Denton	Trinity	Population		2,608	3,486	4,488	5,563	6,467	7,518
				TWDB Table 2 Demands		336	449	603	748	869	1,011
				TWDB Table 5 Supply	Trinity Aquifer	141	141	141	118	118	118
					Trophy Club #1 (TRWD West Fork thru Fort Worth)	207	291	0	0	0	0
				Current Supply Less Demand		*12*	*-17*	*-462*	*-630*	*-751*	*-893*
				TWDB Table 12 Strategies	Renew FW Contract	0	0	0	0	0	0
					Trophy Club #1 (TRWD thru Fort Worth)	0	43	744	1,091	962	1,291
				Total Supply Less Demand		12	26	282	461	211	398
Sanger	30801000	Denton	Trinity	Population		7,611	12,623	15,051	17,947	21,400	23,998
				TWDB Table 2 Demands		1,066	2,121	2,613	3,217	3,596	4,032
				TWDB Table 5 Supply	Trinity Aquifer	269	269	269	225	225	225
					UTRWD (Denton - Ray Roberts)	1,401	1,401	0	0	0	0
				Current Supply Less Demand		*604*	*-451*	*-2,344*	*-2,992*	*-3,371*	*-3,807*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	723	1,508	672	649	635
					UTRWD (reuse)	0	715	1,435	638	616	602

					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (DWU)	0	0	0	1,837	2,263	2,878
				Total Supply Less Demand		604	987	599	155	157	308
Shady Shores	30820000	Denton	Trinity	Population		1,756	2,526	3,327	3,921	4,539	4,770
				TWDB Table 2 Demands		246	424	596	681	763	748
				TWDB Table 5 Supply	Trinity Aquifer	37	37	37	31	31	31
					Lake Cities MUA (UTRWD from DWU Elm Fork)	209	317	495	0	0	0
				Current Supply Less Demand		*0*	*-70*	*-64*	*-650*	*-732*	*-717*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	112	41	146	141	120
					UTRWD (reuse)	0	111	39	139	134	113
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD thru Lake Cities MUA (DWU)	0	0	0	398	492	543
				Total Supply Less Demand		0	153	16	33	35	59
Southlake	30846000	Denton	Trinity	Population		625	1,109	1,341	1,740	2,215	2,865
(Partial)				TWDB Table 2 Demands		181	314	372	473	588	745
				TWDB Table 5 Supply	TRWD West Fork (FW)	192	0	0	0	0	0
				Current Supply Less Demand		*11*	*-314*	*-372*	*-473*	*-588*	*-745*
				TWDB Table 12 Strategies	Renew FW Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	804	599	820	753	1,076
				Total Supply Less Demand		11	490	227	347	165	331
The Colony	30891000	Denton	Trinity	Population		27,626	42,800	56,000	60,000	64,500	65,145
				TWDB Table 2 Demands		3,404	6,232	9,409	10,417	11,199	10,946
				TWDB Table 5 Supply	Trinity Aquifer	603	603	603	505	505	505
					Elm Fork/Lake Grapevine System (DWU)	2,465	4,606	0	0	0	0
				Current Supply Less Demand		*-336*	*-1,023*	*-8,806*	*-9,912*	*-10,694*	*-10,441*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	379	1,724	11,408	10,826	11,498	11,696
				Total Supply Less Demand		43	701	2,602	914	804	1,255
Trophy Club	30911000	Denton	Trinity	Population		6,524	9,655	13,166	16,784	19,807	23,374
				TWDB Table 2 Demands		1,790	2,704	3,687	4,700	5,547	6,546
				TWDB Table 5 Supply	Trinity Aquifer	308	308	308	258	258	258
					Trophy Club #1 (TRWD West Fork thru Fort Worth)	1,571	2,266	0	0	0	0
				Current Supply Less Demand		*89*	*-130*	*-3,379*	*-4,442*	*-5,289*	*-6,288*
				TWDB Table 12 Strategies	Renew FW Contract	0	0	0	0	0	0
					Trophy Club #1 (TRWD thru Fort Worth)	0	332	5,440	7,692	6,777	9,092

				Total Supply Less Demand		89	202	2,061	3,250	1,488	2,804
County-Other	30996061	Denton	Trinity	Population		45,586	51,596	89,963	181,749	224,185	250,642
				TWDB Table 2 Demands		6,128	7,224	15,116	32,574	37,668	42,113
				TWDB Table 5 Supply	Trinity Aquifer	1,985	1,993	1,987	1,648	1,636	1,636
					Woodbine Aquifer	210	210	210	210	210	210
					Other Aquifer	5	5	5	4	4	4
					Reuse for Golf Irrigation	700	700	700	700	700	700
					Elm Fork/Lake Grapevine System (UTRWD)	2,775	3,055	10,673	0	0	0
					UTRWD Direct Reuse	2,240	2,240	2,240	2,240	2,240	2,240
					West Fork less Bridgeport Local (FW)	480	550	0	0	0	0
				Current Supply Less Demand		*2,267*	*1,529*	*699*	*-27,772*	*-32,878*	*-37,323*
				TWDB Table 12 Strategies	TRA Reuse (Denton Creek Plant)	0	2,000	4,000	5,000	5,000	5,000
					UTRWD (Lake Chapman)	0	0	0	4,434	4,688	4,722
					UTRWD (reuse)	0	0	0	4,218	4,452	4,488
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (DWU)	0	0	0	12,145	16,369	21,454
					Renew FW Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	0	0	5,195	4,500	5,729
				Total Supply Less Demand		2,267	3,529	4,699	3,220	2,131	4,070
Irrigation	31004061	Denton	Trinity	TWDB Table 2 Demands		750	750	750	750	750	750
				TWDB Table 5 Supply	Woodbine Aquifer	351	351	351	351	351	351
					Irrigation Local Supply	634	634	634	634	634	634
				Current Supply Less Demand		235	235	235	235	235	235
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		235	235	235	235	235	235
Livestock	31005061	Denton	Trinity	TWDB Table 2 Demands		1,256	1,256	1,256	1,256	1,256	1,256
				TWDB Table 5 Supply	Trinity Aquifer	175	175	175	147	147	147
					Woodbine Aquifer	289	289	289	289	289	289
					Livestock Local Supply	935	935	935	935	935	935
				Current Supply Less Demand		143	143	143	115	115	115
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		143	143	143	115	115	115
Manufacturing	31001061	Denton	Trinity	TWDB Table 2 Demands		799	943	1,067	1,172	1,418	1,699
				TWDB Table 5 Supply	Trinity Aquifer	38	38	38	32	32	32
					Lake Ray Roberts (Denton)	20	20	20	20	20	20
					Elm Fork/Lake Grapevine System (UTRWD)	743	721	858	0	0	0

					Elm Fork/Lake Grapevine System (DWU)	4	4	0	0	0	0
				Current Supply Less Demand		*6*	*-160*	*-151*	*-1,120*	*-1,366*	*-1,647*
				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	257	97	252	263	275
					UTRWD (reuse)	0	254	92	239	250	261
					Renewal of DWU Contract with UTRWD	0	0	0	0	0	0
					UTRWD (DWU)	0	0	0	686	917	1,244
				Total Supply Less Demand		6	351	38	57	64	133
Mining	31003061	Denton	Trinity	TWDB Table 2 Demands		146	138	144	154	166	182
				TWDB Table 5 Supply	Trinity Aquifer	56	48	54	64	76	76
					Other Local Supply	90	90	90	90	90	90
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*-16*
				TWDB Table 12 Strategies	Increase Other Local Supply	0	0	0	0	0	16
				Total Supply Less Demand		0	0	0	0	0	0
Steam Electric Power	31002061	Denton	Trinity	TWDB Table 2 Demands		0	4,500	4,500	4,500	6,000	6,000
				TWDB Table 5 Supply	Reuse (Denton)	500	500	500	500	500	500
				Current Supply Less Demand		*500*	*-4,000*	*-4,000*	*-4,000*	*-5,500*	*-5,500*
				TWDB Table 12 Strategies	Reuse (Denton)	0	4,000	4,000	4,000	5,500	5,500
				Total Supply Less Demand		500	0	0	0	0	0

Ellis County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Cedar Hill	30151000	Ellis	Trinity	Population		68	102	137	181	204	230
(Partial)				TWDB Table 2 Demands		13	23	31	40	43	48
				TWDB Table 5 Supply	Trinity Aquifer	1	1	1	1	1	1
					Woodbine Aquifer	0	0	0	0	0	0
					Lake Ray Hubbard (DWU)	3	5	0	0	0	0
					Tawakoni (DWU)	8	13	0	0	0	0
					Joe Pool Lake (TRA)	0	0	0	0	0	0
				Current Supply Less Demand		*-1*	*-4*	*-30*	*-39*	*-42*	*-47*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	1	7	38	43	44	53
				Total Supply Less Demand		0	3	8	4	2	6
Ennis	30284000	Ellis	Trinity	Population		15,749	17,582	19,772	22,041	22,949	23,895
				TWDB Table 2 Demands		2,558	3,013	3,544	4,074	3,984	4,015
				TWDB Table 5 Supply	TRA Lake Bardwell	5,350	5,183	5,005	4,085	3,589	3,139
					Lake Clark	0	0	0	0	0	0

				Current Supply Less Demand		*2,792*	*2,170*	*1,461*	*11*	*-395*	*-876*
				TWDB Table 12 Strategies	TRWD (new customer)	0	3,924	3,924	4,204	4,142	4,114
				Total Supply Less Demand		2,792	6,094	5,385	4,215	3,747	3,238
Ferris	30296000	Ellis	Trinity	Population		2,200	2,635	3,152	3,682	3,835	3,994
				TWDB Table 2 Demands		303	381	470	561	571	582
				TWDB Table 5 Supply	Woodbine Aquifer	196	196	196	196	196	196
					Rockett SUD (TRA)	121	193	264	331	330	332
				Current Supply Less Demand		*14*	*8*	*-10*	*-34*	*-45*	*-54*
				TWDB Table 12 Strategies	Rockett SUD (TRA Ellis County WSP)	0	807	807	807	807	807
				Total Supply Less Demand		14	815	797	773	762	753
Glenn Heights	30344000	Ellis	Trinity	Population		964	1,194	1,387	1,612	1,672	1,734
(Partial)				TWDB Table 2 Demands		162	201	233	271	281	291
				TWDB Table 5 Supply	Woodbine Aquifer	13	13	13	13	13	13
					Lake Ray Hubbard (DWU)	35	40	50	0	0	0
					Tawakoni (DWU)	94	108	144	0	0	0
				Current Supply Less Demand		*-20*	*-40*	*-26*	*-258*	*-268*	*-278*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	23	67	34	283	289	311
				Total Supply Less Demand		3	27	8	25	21	33
Grand Prairie	30353000	Ellis	Trinity	Population		65	122	220	220	220	220
(Partial)				TWDB Table 2 Demands		12	21	39	37	36	35
				TWDB Table 5 Supply	Trinity Aquifer	7	7	7	6	6	6
					Elm Fork/Lake Grapevine System (DWU)	4	11	0	0	0	0
					TRWD CC/RC (FW)	0	0	0	0	0	0
				Current Supply Less Demand		*-1*	*-3*	*-32*	*-31*	*-30*	*-29*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	1	5	43	34	33	32
				Total Supply Less Demand		0	2	11	3	3	3
Italy	30438000	Ellis	Trinity	Population		2,239	2,719	3,235	3,745	4,008	4,289
				TWDB Table 2 Demands		288	408	536	654	673	673
				TWDB Table 5 Supply	Trinity Aquifer	198	198	198	166	166	166
					Woodbine Aquifer	53	53	53	53	53	53
				Current Supply Less Demand		*-37*	*-157*	*-285*	*-435*	*-454*	*-454*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	37	0	0	0	0	0

					TRA (new customer) (Ellis County SWP)	0	579	579	579	579	579
				Total Supply Less Demand		0	422	294	144	125	125
Mansfield	30559000	Ellis	Trinity	Population		430	716	1,064	1,457	1,737	2,071
(Partial)				TWDB Table 2 Demands		94	156	232	318	379	452
				TWDB Table 5 Supply	TRWD CC/RC	99	148	223	289	323	364
				Current Supply Less Demand		*5*	*-8*	*-9*	*-29*	*-56*	*-88*
				TWDB Table 12 Strategies	TRWD	0	21	14	50	72	127
				Total Supply Less Demand		5	13	5	21	16	39
Maypearl	30573000	Ellis	Trinity	Population		962	980	1,010	1,012	1,013	1,063
				TWDB Table 2 Demands		158	162	170	170	170	182
				TWDB Table 5 Supply	Woodbine Aquifer	89	89	89	89	89	89
				Current Supply Less Demand		*-69*	*-73*	*-81*	*-81*	*-81*	*-93*
				TWDB Table 12 Strategies	Overdraft Woodbine Aquifer	81	0	0	0	0	0
					TRA (new customer) (Ellis County SWP)	0	415	415	415	415	415
				Total Supply Less Demand		12	342	334	334	334	322
Midlothian	30596000	Ellis	Trinity	Population		9,185	11,938	14,789	17,552	19,114	20,815
				TWDB Table 2 Demands		1,996	2,541	3,083	3,578	3,811	4,080
				TWDB Table 5 Supply	Trinity Aquifer	132	132	132	111	111	111
					TRA Joe Pool	2,116	2,516	2,842	3,147	3,255	3,434
					TRWD CC/RC (TRA)	0	0	0	0	0	0
				Current Supply Less Demand		*252*	*107*	*-109*	*-320*	*-445*	*-535*
				TWDB Table 12 Strategies	TRA (Ellis County SWP)	0	0	1,825	1,825	1,825	1,825
				Total Supply Less Demand		252	107	1,716	1,505	1,380	1,290
Milford	30598000	Ellis	Trinity	Population		919	976	1,017	1,040	1,042	1,051
				TWDB Table 2 Demands		118	132	142	148	147	149
				TWDB Table 5 Supply	Woodbine Aquifer	26	26	26	26	26	26
					Other Aquifer	41	41	41	34	34	34
				Current Supply Less Demand		*-51*	*-65*	*-75*	*-88*	*-87*	*-89*
				TWDB Table 12 Strategies	Files Valley WSC (Aquilla Creek)	95	95	95	95	95	95
				Total Supply Less Demand		44	30	20	7	8	6
Oak Leaf	30647000	Ellis	Trinity	Population		1,224	1,321	1,543	1,749	1,920	2,089
				TWDB Table 2 Demands		168	190	224	254	278	302
				TWDB Table 5 Supply	Lake Ray Hubbard (DWU)	40	41	50	0	0	0
					Tawakoni (DWU)	106	109	147	0	0	0

				Current Supply Less Demand		*-22*	*-40*	*-27*	*-254*	*-278*	*-302*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	25	67	35	277	299	339
				Total Supply Less Demand		3	27	8	23	21	37
Ovilla	30663000	Ellis	Trinity	Population		2,845	3,329	3,840	4,334	4,477	4,626
(Partial)				TWDB Table 2 Demands		669	783	882	971	978	1,010
				TWDB Table 5 Supply	Lake Ray Hubbard (DWU thru Cedar Hill)	159	168	0	0	0	0
					Tawakoni (DWU thru Cedar Hill)	423	448	0	0	0	0
				Current Supply Less Demand		*-87*	*-167*	*-882*	*-971*	*-978*	*-1,010*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU (thru Cedar Hill)	98	281	1,144	1,060	1,052	1,132
				Total Supply Less Demand		11	114	262	89	74	122
Palmer	30671000	Ellis	Trinity	Population		1,816	2,339	2,898	3,448	3,737	4,047
				TWDB Table 2 Demands		214	301	373	444	481	521
				TWDB Table 5 Supply	Woodbine Aquifer	131	131	131	131	131	131
				Current Supply Less Demand		*-83*	*-170*	*-242*	*-313*	*-350*	*-390*
				TWDB Table 12 Strategies	Overdraft Woodbine Aquifer	83	0	0	0	0	0
					TRA (Ellis County SWP)	0	390	390	390	390	390
				Total Supply Less Demand		0	220	148	77	40	0
Pecan Hill	30686000	Ellis	Trinity	Population		714	733	738	757	789	822
				TWDB Table 2 Demands		102	108	108	113	120	127
				TWDB Table 5 Supply	Other Aquifer	99	99	99	83	83	83
				Current Supply Less Demand		*-3*	*-9*	*-9*	*-30*	*-37*	*-44*
				TWDB Table 12 Strategies	New contract with Rockett SUD	3	9	9	30	37	59
				Total Supply Less Demand		0	0	0	0	0	15
Red Oak	30739000	Ellis	Trinity	Population		5,320	6,597	7,929	9,226	9,945	10,725
				TWDB Table 2 Demands		685	894	1,110	1,312	1,404	1,526
				TWDB Table 5 Supply	Woodbine Aquifer	223	223	223	223	223	223
					Rockett SUD (TRA Joe Pool Lake)	524	700	855	989	1,039	1,121
				Current Supply Less Demand		*62*	*29*	*-32*	*-100*	*-142*	*-182*
				TWDB Table 12 Strategies	Overdraft Woodbine	196	0	0	0	0	0
					TRA (Ellis County SWP)	0	2,108	2,108	2,108	2,108	2,108

				Total Supply Less Demand		258	2,137	2,076	2,008	1,966	1,926
Waxahachie	30943000	Ellis	Trinity	Population		22,454	26,692	31,330	35,953	40,477	45,041
				TWDB Table 2 Demands		5,634	6,339	6,387	7,289	8,025	8,930
				TWDB Table 5 Supply	Lake Waxahachie	800	800	800	800	800	800
					Ellis County WCID#1 (TRA Lake Bardwell)	2,999	2,991	2,382	2,095	2,095	2,346
					TRA reuse	3,400	3,800	3,900	4,400	4,900	5,129
				Current Supply Less Demand		*1,565*	*1,252*	*695*	*6*	*-230*	*-655*
				TWDB Table 12 Strategies	TRA (Ellis County SWP)	0	5,219	5,219	5,219	5,219	5,219
				Total Supply Less Demand		1,565	6,471	5,914	5,225	4,989	4,564
County-Other	30996070	Ellis	Trinity	Population		35,916	43,879	49,993	54,264	58,264	58,652
				TWDB Table 2 Demands		5,368	6,340	6,999	7,355	7,636	7,424
				TWDB Table 5 Supply	Trinity Aquifer	3,271	3,271	3,271	2,741	2,741	2,741
					Woodbine Aquifer	401	391	376	361	346	329
					Other Aquifer	6	6	6	5	5	5
					Rockett SUD (TRA Joe Pool Lake)	2,193	2,380	2,427	2,404	2,419	2,298
					TRA Lake Bardwell	628	671	1,168	1,604	1,617	1,311
				Current Supply Less Demand		*1,131*	*379*	*249*	*-240*	*-508*	*-740*
				TWDB Table 12 Strategies	TRA (Ellis County SWP)	0	8,687	8,687	8,687	8,687	8,687
				Total Supply Less Demand		1,131	9,066	8,936	8,447	8,179	7,947
Irrigation	31004070	Ellis	Trinity	TWDB Table 2 Demands		120	120	120	120	120	120
				TWDB Table 5 Supply	Trinity Aquifer	22	22	22	18	18	18
					Irrigation Local Supply	508	508	508	508	508	508
				Current Supply Less Demand		*410*	*410*	*410*	*406*	*406*	*406*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		410	410	410	406	406	406
Livestock	31005070	Ellis	Trinity	TWDB Table 2 Demands		1,287	1,287	1,287	1,287	1,287	1,287
				TWDB Table 5 Supply	Woodbine Aquifer	113	113	113	113	113	113
					Livestock Local Supply	1,688	1,688	1,688	1,688	1,688	1,688
				Current Supply Less Demand		514	514	514	514	514	514
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		514	514	514	514	514	514
Manufacturing	31001070	Ellis	Trinity	TWDB Table 2 Demands		4,313	4,684	4,925	5,163	5,402	5,639
				TWDB Table 5 Supply	Trinity Aquifer	1,957	1,957	1,957	1,640	1,640	1,640
					Woodbine Aquifer	477	477	477	477	477	477

					Midlothian (TRA Joe Pool Lake)	220	220	214	212	214	218
					Lake Waxahachie (Waxahachie)	1,600	1,600	1,600	1,600	1,600	1,600
					TRA Lake Bardwell	623	755	945	1,216	1,299	1,304
				Current Supply Less Demand		*564*	*325*	*268*	*-18*	*-172*	*-400*
				TWDB Table 12 Strategies	Lake Bardwell (Ellis County WSP)	0	146	146	146	146	146
					Cedar Creek/Richland-Chambers System (Ellis County WSP)	0	10	10	10	10	10
					Joe Pool Lake (Ellis County WSP)	0	1,152	1,152	1,152	1,152	1,152
					Lake Waxahachie (Ellis County WSP)	0	359	359	359	359	359
					Cedar Creek/Richland-Chambers System (Ellis County WSP)	0	89	89	89	89	89
				Total Supply Less Demand		564	2,080	2,023	1,737	1,583	1,355
Mining	31003070	Ellis	Trinity	TWDB Table 2 Demands		110	120	135	150	165	182
				TWDB Table 5 Supply	Woodbine Aquifer	110	120	135	150	165	182
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Steam Electric Power	31002070	Ellis	Trinity	TWDB Table 2 Demands		0	15,000	15,000	15,000	18,000	18,000
				TWDB Table 5 Supply	None	0	0	0	0	0	0
				Current Supply Less Demand		0	-15,000	-15,000	-15,000	-18,000	-18,000
				TWDB Table 12 Strategies	Reuse from TRA Ten Mile Creek plant	0	20,000	20,000	20,000	20,000	20,000
					Existing 3 MGD contract with Ennis; supplied by wastewater	0	1,822	2,142	2,463	2,409	2,427
					Existing 3 MGD contract with Ennis; supplied by Lake Bardwell	0	1,541	1,221	900	954	936
					Estimated usage from Midlothian; supplied by Joe Pool Lake	34	34	34	34	34	34
				Total Supply Less Demand		34	8,397	8,397	8,397	5,397	5,397

Fannin County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Bonham	30098000	Fannin	Red	Population		7,186	7,649	8,142	8,667	9,226	9,820
				TWDB Table 2 Demands		1,626	1,654	1,678	1,738	1,839	1,946
				TWDB Table 5 Supply	Lake Bonham	4,448	4,448	4,448	4,448	4,040	3,540
				Current Supply Less Demand		*2,822*	*2,794*	*2,770*	*2,710*	*2,201*	*1,594*
				TWDB Table 12 Strategies	Fannin County SW Project (Lower Bois d'Arc Lake)	0	500	500	500	500	500
				Total Supply Less Demand		2,822	3,294	3,270	3,210	2,701	2,094
Honey Grove	30415000	Fannin	Red	Population		95	101	107	115	121	130
				TWDB Table 2 Demands		22	22	22	24	24	27
				TWDB Table 5 Supply	Woodbine Aquifer	26	26	26	26	26	27
				Current Supply Less Demand		*4*	*4*	*4*	*2*	*2*	*0*
				TWDB Table 12 Strategies	Fannin County SW Project (Lower Bois d'Arc Lake)	0	27	27	27	27	27
				Total Supply Less Demand		4	31	31	29	29	27
Honey Grove	30415000	Fannin	Sulphur	Population		1,791	1,906	2,030	2,159	2,300	2,447
				TWDB Table 2 Demands		407	421	429	445	472	499
				TWDB Table 5 Supply	Woodbine Aquifer	508	508	508	508	508	508
				Current Supply Less Demand		*101*	*87*	*79*	*63*	*36*	*9*
				TWDB Table 12 Strategies	Fannin County SW Project (Lower Bois d'Arc Lake)	0	501	501	501	501	501
				Total Supply Less Demand		101	588	580	564	537	510
Leonard	30517000	Fannin	Sulphur	Population		206	220	233	249	264	281
				TWDB Table 2 Demands		32	32	32	33	34	37
				TWDB Table 5 Supply	Woodbine Aquifer	40	40	40	40	40	40
				Current Supply Less Demand		*8*	*8*	*8*	*7*	*6*	*3*
				TWDB Table 12 Strategies	Fannin County SW Project (Lower Bois d'Arc Lake)	0	37	37	37	37	37
				Total Supply Less Demand		8	45	45	44	43	40
Leonard	30517000	Fannin	Trinity	Population		1,840	1,958	2,085	2,219	2,362	2,515
				TWDB Table 2 Demands		284	287	290	294	307	326
				TWDB Table 5 Supply	Woodbine	363	363	363	363	363	363
				Current Supply Less Demand		*79*	*76*	*73*	*69*	*56*	*37*
				TWDB Table 12 Strategies	Fannin County SW Project (Lower Bois d'Arc Lake)	0	328	328	328	328	328

				Total Supply Less Demand		79	404	401	397	384	365
Savoy	30807000	Fannin	Red	Population		961	963	966	969	971	974
				TWDB Table 2 Demands		124	120	116	112	108	104
				TWDB Table 5 Supply	Woodbine Aquifer	131	131	131	131	131	131
				Current Supply Less Demand		*7*	*11*	*15*	*19*	*23*	*27*
				TWDB Table 12 Strategies	Fannin County SW Project (Lower Bois d'Arc Lake)	0	126	126	126	126	126
				Total Supply Less Demand		7	137	141	145	149	153
Trenton	30908000	Fannin	Trinity	Population		725	772	822	875	931	991
				TWDB Table 2 Demands		145	149	151	157	163	172
				TWDB Table 5 Supply	Woodbine Aquifer	274	274	274	274	274	274
				Current Supply Less Demand		*129*	*125*	*123*	*117*	*111*	*102*
				TWDB Table 12 Strategies	Fannin County SW Project (Lower Bois d'Arc Lake)	0	175	175	175	175	175
				Total Supply Less Demand		129	300	298	292	286	277
County-Other	30996074	Fannin	Red	Population		12,386	14,401	16,256	17,426	17,504	17,131
				TWDB Table 2 Demands		1,653	1,856	2,020	2,085	2,019	1,895
				TWDB Table 5 Supply	Trinity Aquifer	349	349	349	349	349	349
					Woodbine Aquifer	990	990	990	990	990	990
					Lake Bonham	734	734	734	734	667	584
				Current Supply Less Demand		*420*	*217*	*53*	*-12*	*-13*	*28*
				TWDB Table 12 Strategies	Fannin County SW Project (Lower Bois d'Arc Lake)	0	1,836	1,836	1,836	1,836	1,836
				Total Supply Less Demand		420	2,053	1,889	1,824	1,823	1,864
County-Other	30996074	Fannin	Sulphur	Population		3,794	4,407	4,942	5,287	5,316	5,213
				TWDB Table 2 Demands		505	567	612	631	611	575
				TWDB Table 5 Supply	Trinity Aquifer	198	198	198	198	198	198
					Woodbine Aquifer	609	609	609	609	609	609
					Lake Bonham	40	40	40	40	36	32
				Current Supply Less Demand		*342*	*280*	*235*	*216*	*232*	*264*
				TWDB Table 12 Strategies	Fannin County SW Project (Lower Bois d'Arc Lake)	0	561	561	561	561	561
				Total Supply Less Demand		342	841	796	777	793	825
County-Other	30996074	Fannin	Trinity	Population		1,016	1,224	1,417	1,535	1,504	1,499
				TWDB Table 2 Demands		57	67	78	81	67	67
				TWDB Table 5 Supply	Trinity Aquifer	79	79	79	79	79	79

					Woodbine Aquifer	251	251	251	251	251	251
				Current Supply Less Demand		*273*	*263*	*252*	*249*	*263*	*263*
				TWDB Table 12 Strategies	Fannin County SW Project (Lower Bois d'Arc Lake)	0	64	64	64	64	64
				Total Supply Less Demand		273	327	316	313	327	327
Irrigation	31004074	Fannin	Red	TWDB Table 2 Demands		1,189	1,094	1,006	926	852	784
				TWDB Table 5 Supply	Other Aquifer	2,919	2,919	2,919	2,919	2,919	2,919
					Irrigation Local Supply	12,728	12,728	12,728	12,728	12,728	12,728
				Current Supply Less Demand		*14,458*	*14,553*	*14,641*	*14,721*	*14,795*	*14,863*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		14,458	14,553	14,641	14,721	14,795	14,863
Livestock	31005074	Fannin	Red	TWDB Table 2 Demands		732	732	732	732	732	732
				TWDB Table 5 Supply	Woodbine Aquifer	159	159	159	159	159	159
					Livestock Local Supply	1,140	1,140	1,140	1,140	1,140	1,140
				Current Supply Less Demand		*567*	*567*	*567*	*567*	*567*	*567*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		567	567	567	567	567	567
Livestock	31005074	Fannin	Sulphur	TWDB Table 2 Demands		236	236	236	236	236	236
				TWDB Table 5 Supply	Trinity Aquifer	26	26	26	26	26	26
					Woodbine Aquifer	25	25	25	25	25	25
					Livestock Local Supply	367	367	367	367	367	367
				Current Supply Less Demand		*182*	*182*	*182*	*182*	*182*	*182*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		182	182	182	182	182	182
Livestock	31005074	Fannin	Trinity	TWDB Table 2 Demands		49	49	49	49	49	49
				TWDB Table 5 Supply	Trinity Aquifer	10	10	10	10	10	10
					Livestock Local Supply	76	76	76	76	76	76
				Current Supply Less Demand		*37*	*37*	*37*	*37*	*37*	*37*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		37	37	37	37	37	37
Manufacturing	31001074	Fannin	Red	TWDB Table 2 Demands		39	44	49	54	59	66
				TWDB Table 5 Supply	Woodbine Aquifer	34	34	34	34	34	34
					Lake Bonham	118	118	118	118	107	94
				Current Supply Less Demand		*113*	*108*	*103*	*98*	*82*	*62*

				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		113	108	103	98	82	62
Manufacturing	31001074	Fannin	Sulphur	TWDB Table 2 Demands		0	0	0	0	0	0
				TWDB Table 5 Supply	Woodbine Aquifer	364	364	364	364	364	364
				Current Supply Less Demand		*364*	*364*	*364*	*364*	*364*	*364*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		364	364	364	364	364	364
Mining	31003074	Fannin	Red	TWDB Table 2 Demands		0	0	0	0	0	0
				TWDB Table 5 Supply	Other Local Supply	161	161	161	161	161	161
				Current Supply Less Demand		*161*	*161*	*161*	*161*	*161*	*161*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		161	161	161	161	161	161
Steam Electric Power	31002074	Fannin	Red	TWDB Table 2 Demands		5,000	6,000	7,000	8,000	9,000	10,000
				TWDB Table 5 Supply	Woodbine Aquifer	596	596	596	596	596	596
					Lake Texoma	10,000	10,000	10,000	10,000	10,000	10,000
				Current Supply Less Demand		*5,596*	*4,596*	*3,596*	*2,596*	*1,596*	*596*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		5,596	4,596	3,596	2,596	1,596	596

Freestone County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Fairfield	30289000	Freestone	Trinity	Population		691	725	787	841	860	880
				TWDB Table 2 Demands		691	725	787	841	860	880
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	791	791	791	791	791	791
				Current Supply Less Demand		*100*	*66*	*4*	*-50*	*-69*	*-89*
				TWDB Table 12 Strategies	Add New Wells & Increase Pumping in Carrizo-Wilcox Aquifer	0	0	0	60	75	95
				Total Supply Less Demand		100	66	4	10	6	6
Teague	30884000	Freestone	Trinity	Population		1,194	1,222	1,232	1,239	1,249	1,259
				TWDB Table 2 Demands		134	137	138	139	140	141
				TWDB Table 5 Supply	Teague City Lake	0	0	0	0	0	0
					Carrizo-Wilcox Aquifer	254	254	254	254	254	254
				Current Supply Less Demand		*120*	*117*	*116*	*115*	*114*	*113*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0

				Total Supply Less Demand		120	117	116	115	114	113
Teague	30884000	Freestone	Brazos	Population		2,786	2,850	2,875	2,892	2,916	2,940
				TWDB Table 2 Demands		312	319	322	323	326	329
				TWDB Table 5 Supply	Teague City Lake	0	0	0	0	0	0
					Carrizo-Wilcox Aquifer	593	593	593	593	593	593
				Current Supply Less Demand		*281*	*274*	*271*	*270*	*267*	*264*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		281	274	271	270	267	264
Wortham	30990000	Freestone	Trinity	Population		1,180	1,262	1,397	1,521	1,587	1,656
				TWDB Table 2 Demands		267	274	292	312	320	331
				TWDB Table 5 Supply	Lake Wortham	0	0	0	0	0	0
				Current Supply Less Demand		*-267*	*-274*	*-292*	*-312*	*-320*	*-331*
				TWDB Table 12 Strategies	Mexia	270	280	300	320	325	335
				Total Supply Less Demand		3	6	8	8	5	4
County-Other	30996081	Freestone	Trinity	Population		7,572	7,739	7,662	7,466	7,540	7,523
				TWDB Table 2 Demands		959	919	860	839	847	844
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	1,468	1,468	1,468	1,468	1,468	1,468
					Wortham Lake	0	0	0	0	0	0
				Current Supply Less Demand		*509*	*549*	*608*	*629*	*621*	*624*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		509	549	608	629	621	624
County-Other	30996081	Freestone	Brazos	Population		1,695	1,732	1,714	1,671	1,688	1,684
				TWDB Table 2 Demands		213	203	190	185	187	187
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	233	233	233	233	233	233
					Wortham Lake	0	0	0	0	0	0
				Current Supply Less Demand		*20*	*30*	*43*	*48*	*46*	*46*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		20	30	43	48	46	46
Irrigation	31004081	Freestone	Trinity	TWDB Table 2 Demands		20	20	20	20	20	20
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	25	25	25	25	25	25
					Irrigation Local Supply	353	353	353	353	353	353
				Current Supply Less Demand		*358*	*358*	*358*	*358*	*358*	*358*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		358	358	358	358	358	358

Irrigation	31004081	Freestone	Brazos	TWDB Table 2 Demands		5	5	5	5	5	5
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	6	6	6	6	6	6
				Current Supply Less Demand		*1*	*1*	*1*	*1*	*1*	*1*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		1	1	1	1	1	1
Livestock	31005081	Freestone	Trinity	TWDB Table 2 Demands		1,231	1,231	1,231	1,231	1,231	1,231
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	766	766	766	766	766	766
					Other Aquifer	35	35	35	35	35	35
					Livestock Local Supply	961	961	961	961	961	961
				Current Supply Less Demand		*531*	*531*	*531*	*531*	*531*	*531*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		531	531	531	531	531	531
Livestock	31005081	Freestone	Brazos	TWDB Table 2 Demands		105	105	105	105	105	105
				TWDB Table 5 Supply	Other Aquifer	21	21	21	21	21	21
					Queen City Aquifer	48	48	48	48	48	48
					Livestock Local Supply	82	82	82	82	82	82
				Current Supply Less Demand		*46*	*46*	*46*	*46*	*46*	*46*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		46	46	46	46	46	46
Mining	31003081	Freestone	Trinity	TWDB Table 2 Demands		122	104	33	18	8	5
				TWDB Table 5 Supply	Other Local Supply	236	236	236	236	236	236
					Carrizo-Wilcox Aquifer	39	39	39	39	39	39
				Current Supply Less Demand		*153*	*171*	*242*	*257*	*267*	*270*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		153	171	242	257	267	270
Mining	31003081	Freestone	Brazos	TWDB Table 2 Demands		15	16	17	18	19	20
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	16	16	17	18	19	20
				Current Supply Less Demand		*1*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		1	0	0	0	0	0
Steam Electric Power	31002081	Freestone	Trinity	TWDB Table 2 Demands		16,000	27,000	29,000	29,000	33,192	33,192
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	204	204	204	204	204	204
					Lake Fairfield	2,000	2,000	2,000	2,000	2,000	2,000
					TRA Livingston (TXU-Fairfield)	16,000	16,000	16,000	16,000	16,000	16,000

				Current Supply Less Demand		2,204	-8,796	-10,796	-10,796	-14,988	-14,988
				TWDB Table 12 Strategies	TRWD (Plant 1)	0	1,597	2,597	2,982	5,109	5,057
					TRWD (Plant 2)	0	1,597	2,597	2,982	5,109	5,057
					Existing TRWD Contract	0	5,602	5,602	5,602	5,602	5,602
				Total Supply Less Demand		2,204	0	0	770	831	727

Grayson County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Bells	30071000	Grayson	Red	Population		971	1,023	1,185	1,309	1,446	1,597
				TWDB Table 2 Demands		139	142	159	170	181	193
				TWDB Table 5 Supply	Trinity Aquifer	29	29	29	26	26	26
					Woodbine Aquifer	62	62	62	62	62	62
				Current Supply Less Demand		*-48*	*-51*	*-68*	*-82*	*-93*	*-105*
				TWDB Table 12 Strategies	Decrease Use of the Trinity Aquifer	0	-29	-29	-26	-26	-26
					Decrease Use of the Woodbine Aquifer	0	-19	-14	-11	-8	-4
					Overdraft Trinity Aquifer	24	0	0	0	0	0
					Overdraft Woodbine Aquifer	24	0	0	0	0	0
					Grayson County Water Supply Project	0	135	135	135	135	135
				Total Supply Less Demand		0	36	24	16	8	0
Collinsville	30187000	Grayson	Trinity	Population		1,297	1,368	1,451	1,527	1,588	1,652
				TWDB Table 2 Demands		167	170	174	176	176	176
				TWDB Table 5 Supply	Trinity Aquifer	115	115	115	103	103	103
				Current Supply Less Demand		*-52*	*-55*	*-59*	*-73*	*-73*	*-73*
				TWDB Table 12 Strategies	Decrease Use of the Trinity Aquifer	0	-64	-63	-50	-50	-50
					Overdraft Trinity Aquifer	52	0	0	0	0	0
					Grayson County Water Supply Project	0	123	123	123	123	123
				Total Supply Less Demand		0	4	1	0	0	0
Denison	30239000	Grayson	Red	Population		22,950	23,728	24,533	25,365	26,225	27,114
				TWDB Table 2 Demands		4,113	4,040	3,984	4,007	4,025	4,131
				TWDB Table 5 Supply	Lake Texoma	20,624	20,624	20,624	20,624	20,624	20,624
					Lake Randell	4,519	4,519	4,519	4,519	4,519	4,519
				Current Supply Less Demand		*21,030*	*21,103*	*21,159*	*21,136*	*21,118*	*21,012*

				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		21,030	21,103	21,159	21,136	21,118	21,012
Gunter	30370000	Grayson	Trinity	Population		959	1,004	1,235	1,325	1,436	1,546
				TWDB Table 2 Demands		145	152	187	200	217	234
				TWDB Table 5 Supply	Trinity Aquifer	84	84	84	76	76	76
				Current Supply Less Demand		*-61*	*-68*	*-103*	*-124*	*-141*	*-158*
				TWDB Table 12 Strategies	Decrease Use of the Trinity Aquifer	0	-38	-28	-16	-11	-6
					Overdraft Trinity Aquifer	61	0	0	0	0	0
					Grayson County Water Supply Project	0	164	164	164	164	164
				Total Supply Less Demand		0	58	33	24	12	0
Howe	30419000	Grayson	Red	Population		1,888	2,136	2,212	2,331	2,390	2,450
				TWDB Table 2 Demands		263	275	270	344	343	341
				TWDB Table 5 Supply	Woodbine Aquifer	121	121	121	121	121	121
				Current Supply Less Demand		*-142*	*-154*	*-149*	*-223*	*-222*	*-220*
				TWDB Table 12 Strategies	Decrease Use of Woodbine Aquifer	0	-39	-40	-15	-16	-18
					Overdraft Woodbine Aquifer	142	0	0	0	0	0
					Grayson County Water Supply Project	0	238	238	238	238	238
				Total Supply Less Demand		0	45	49	0	0	0
Howe	30419000	Grayson	Trinity	Population		475	537	556	585	600	616
				TWDB Table 2 Demands		66	69	68	87	86	85
				TWDB Table 5 Supply	Woodbine Aquifer	37	37	37	37	37	37
				Current Supply Less Demand		*-29*	*-32*	*-31*	*-50*	*-49*	*-48*
				TWDB Table 12 Strategies	Decrease Use of Woodbine Aquifer	0	-17	-17	-10	-11	-12
					Overdraft Woodbine Aquifer	29	0	0	0	0	0
					Grayson County Water Supply Project	0	60	60	60	60	60
				Total Supply Less Demand		0	11	12	0	0	0
Luella	30548000	Grayson	Red	Population		725	739	754	770	785	801
				TWDB Table 2 Demands		106	108	110	112	114	117
				TWDB Table 5 Supply	Woodbine Aquifer	41	41	41	41	41	41
				Current Supply Less Demand		*-65*	*-67*	*-69*	*-71*	*-73*	*-76*
				TWDB Table 12 Strategies	Decrease Use of Woodbine Aquifer	0	-8	-8	-7	-7	-6

					Overdraft Woodbine Aquifer, new well	8	0	0	0	0	0
					Overdraft Woodbine Aquifer	57	0	0	0	0	0
					Grayson County Water Supply Project	0	82	82	82	82	82
				Total Supply Less Demand		0	7	5	4	2	0
Pottsboro	30719000	Grayson	Red	Population		1,663	2,028	2,472	2,730	3,016	3,331
				TWDB Table 2 Demands		261	275	335	385	432	482
				TWDB Table 5 Supply	Woodbine Aquifer	23	23	23	23	23	23
					Lake Randell	261	261	261	261	261	261
				Current Supply Less Demand		*23*	*9*	*-51*	*-101*	*-148*	*-198*
				TWDB Table 12 Strategies	Decrease Use of Woodbine Aquifer	-23	-9	0	0	0	0
					Lake Texoma (new water right)	0	3,000	3,000	3,000	3,000	3,000
				Total Supply Less Demand		0	3,000	2,949	2,899	2,852	2,802
Sherman	30827000	Grayson	Red	Population		34,974	37,362	38,685	40,771	42,856	45,048
				TWDB Table 2 Demands		7,561	7,742	7,583	7,992	8,401	8,830
				TWDB Table 5 Supply	Trinity Aquifer	815	815	815	733	733	733
					Woodbine Aquifer	1,461	1,461	1,461	1,461	1,461	1,461
					Lake Texoma (GTUA)	11,210	11,210	11,210	11,210	11,210	11,210
				Current Supply Less Demand		*5,925*	*5,744*	*5,903*	*5,412*	*5,003*	*4,574*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		5,925	5,744	5,903	5,412	5,003	4,574
Southmayd	30847000	Grayson	Red	Population		893	964	1,024	1,087	1,178	1,275
				TWDB Table 2 Demands		132	138	142	146	153	160
				TWDB Table 5 Supply	Woodbine Aquifer	17	17	17	17	17	17
				Current Supply Less Demand		*-115*	*-121*	*-125*	*-129*	*-136*	*-143*
				TWDB Table 12 Strategies	Overdraft Woodbine Aquifer, new well	128	0	0	0	0	0
					Overdraft Woodbine Aquifer	35	0	0	0	0	0
					Grayson County Water Supply Project	0	143	143	143	143	143
				Total Supply Less Demand		48	22	18	14	7	0
Tioga	30902000	Grayson	Trinity	Population		711	747	785	825	867	912
				TWDB Table 2 Demands		96	100	106	111	117	123
				TWDB Table 5 Supply	Trinity Aquifer	73	73	73	66	66	66

				Current Supply Less Demand		*-23*	*-27*	*-33*	*-45*	*-51*	*-57*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	0	-43	-41	-33	-31	-29
					Overdraft Trinity Aquifer	23	0	0	0	0	0
					Grayson County Water Supply Project	0	86	86	86	86	86
				Total Supply Less Demand		0	16	12	8	4	0
Tom Bean	30904000	Grayson	Red	Population		973	1,007	1,079	1,149	1,201	1,279
				TWDB Table 2 Demands		191	192	199	206	208	215
				TWDB Table 5 Supply	Woodbine Aquifer	81	81	81	81	81	81
				Current Supply Less Demand		*-110*	*-111*	*-118*	*-125*	*-127*	*-134*
				TWDB Table 12 Strategies	Decrease Use of the Woodbine Aquifer	0	-23	-22	-19	-19	-16
					Overdraft Woodbine Aquifer	110	0	0	0	0	0
					Grayson County Water Supply Project	0	150	150	150	150	150
				Total Supply Less Demand		0	16	10	6	4	0
Van Alstyne	30925000	Grayson	Trinity	Population		2,486	3,341	4,490	5,474	6,672	8,134
				TWDB Table 2 Demands		373	524	754	920	1,121	1,367
				TWDB Table 5 Supply	Trinity Aquifer	223	223	223	200	200	200
					Woodbine Aquifer	35	35	35	35	35	35
				Current Supply Less Demand		*-115*	*-266*	*-496*	*-685*	*-886*	*-1,132*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	0	-101	-32	0	0	0
					Overdraft Trinity Aquifer	58	0	0	0	0	0
					Overdraft Woodbine Aquifer, new well	40	0	0	0	0	0
					Overdraft Woodbine Aquifer	34	0	0	0	0	0
					Grayson County Water Supply Project	0	1,132	1,132	1,132	1,132	1,132
				Total Supply Less Demand		16	765	604	447	246	0
Whitesboro	30967000	Grayson	Red	Population		3,334	3,504	3,684	3,873	4,070	4,278
				TWDB Table 2 Demands		624	656	599	628	661	695
				TWDB Table 5 Supply	Trinity Aquifer	113	113	113	102	102	102
				Current Supply Less Demand		*-511*	*-543*	*-486*	*-526*	*-559*	*-593*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	511	0	0	0	0	0
					Grayson County Water Supply Project	0	593	593	593	593	593

				Total Supply Less Demand		0	50	107	67	34	0
Whitesboro	30967000	Grayson	Trinity	Population		173	182	191	201	212	222
				TWDB Table 2 Demands		32	34	30	33	35	36
				TWDB Table 5 Supply	Trinity Aquifer	18	18	18	16	16	16
				Current Supply Less Demand		*-14*	*-16*	*-12*	*-17*	*-19*	*-20*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	0	-8	-9	-6	-5	-5
					Overdraft Trinity Aquifer	14	0	0	0	0	0
					Grayson County Water Supply Project	0	25	25	25	25	25
				Total Supply Less Demand		0	1	4	2	1	0
Whitewright	30968000	Grayson	Red	Population		1,852	1,913	1,960	2,009	2,043	2,078
				TWDB Table 2 Demands		270	278	285	292	297	302
				TWDB Table 5 Supply	Woodbine Aquifer	132	132	132	132	132	132
				Current Supply Less Demand		*-138*	*-146*	*-153*	*-160*	*-165*	*-170*
				TWDB Table 12 Strategies	Decrease Use of Woodbine Aquifer	0	0	0	-44	-43	-41
					Overdraft Woodbine Aquifer, existing well	138	0	0	0	0	0
					Reallocare Woodbine Aquifer, existing well	0	67	63	0	0	0
					Reallocate Trinity Aquifer, new well	0	121	121	0	0	0
					Grayson County Water Supply Project	0	211	211	211	211	211
				Total Supply Less Demand		0	253	242	7	3	0
County-Other	30996091	Grayson	Red	Population		24,442	23,491	23,385	21,839	20,069	16,172
				TWDB Table 2 Demands		3,683	3,541	3,525	3,293	3,027	2,439
				TWDB Table 5 Supply	Trinity Aquifer	294	294	294	264	264	264
					Woodbine Aquifer	782	782	782	782	782	782
					Other Aquifer	25	25	25	22	22	18
					Lake Texoma	1,192	1,192	1,192	1,192	1,192	1,192
					Reuse for Golf Course	100	100	100	100	100	100
				Current Supply Less Demand		*-1,290*	*-1,148*	*-1,132*	*-933*	*-667*	*-83*
				TWDB Table 12 Strategies	Decrease Use of Woodbine Aquifer	0	-39	-44	-80	-160	-336
					Overdraft Trinity Aquifer, new well	805	0	0	0	0	0

					Overdraft Trinity Aquifer, existing wells	795	0	0	0	0	0
					Reallocate Trinity Aquifer, new well	0	805	805	805	0	0
					Grayson County Water Supply Project	0	970	970	970	970	970
				Total Supply Less Demand		310	588	599	762	143	551
County-Other	30996091	Grayson	Trinity	Population		5,353	5,152	5,021	4,695	4,327	3,495
				TWDB Table 2 Demands		823	791	771	719	662	535
				TWDB Table 5 Supply	Woodbine Aquifer	457	457	457	457	457	457
					Other Aquifer	10	10	10	9	9	9
				Current Supply Less Demand		*-356*	*-324*	*-304*	*-253*	*-196*	*-69*
				TWDB Table 12 Strategies	Decrease Use of Woodbine Aquifer	0	-230	-236	-250	-267	-305
					Overdraft Woodbine Aquifer, existing wells	356	0	0	0	0	0
					Grayson County Water Supply Project	0	981	981	981	981	981
				Total Supply Less Demand		0	427	441	478	518	607
Irrigation	31004091	Grayson	Red	TWDB Table 2 Demands		191	201	212	223	235	248
				TWDB Table 5 Supply	Trinity Aquifer	31	31	31	28	28	28
					Irrigation Local Supply	996	996	996	996	996	996
				Current Supply Less Demand		*836*	*826*	*815*	*801*	*789*	*776*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		836	826	815	801	789	776
Irrigation	31004091	Grayson	Trinity	TWDB Table 2 Demands		1,434	1,510	1,590	1,675	1,763	1,857
				TWDB Table 5 Supply	Trinity Aquifer	1,462	1,462	1,462	1,315	1,315	1,315
					Irrigation Local Supply	0	0	0	0	0	0
				Current Supply Less Demand		*28*	*-48*	*-128*	*-360*	*-448*	*-542*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	-28	0	0	0	0	0
					Reallocate Trinity Aquifer	0	48	128	360	448	542
				Total Supply Less Demand		0	0	0	0	0	0
Livestock	31005091	Grayson	Red	TWDB Table 2 Demands		733	733	733	733	733	733
				TWDB Table 5 Supply	Woodbine Aquifer	28	28	28	28	28	28
					Livestock Local Supply	1,079	1,079	1,079	1,079	1,079	1,079
				Current Supply Less Demand		*374*	*374*	*374*	*374*	*374*	*374*

				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		374	374	374	374	374	374
Livestock	31005091	Grayson	Trinity	TWDB Table 2 Demands		410	410	410	410	410	410
				TWDB Table 5 Supply	Woodbine Aquifer	61	61	61	61	61	61
					Livestock Local Supply	604	604	604	604	604	604
				Current Supply Less Demand		*255*	*255*	*255*	*255*	*255*	*255*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		255	255	255	255	255	255
Manufacturing	31001091	Grayson	Red	TWDB Table 2 Demands		6,204	6,724	7,084	7,547	8,162	9,011
				TWDB Table 5 Supply	Woodbine Aquifer	2,132	2,132	2,132	2,132	2,132	2,132
					Lake Texoma	2,584	2,584	2,584	2,584	2,584	2,584
					Lake Randell	500	500	500	500	500	500
				Current Supply Less Demand		*-988*	*-1,508*	*-1,868*	*-2,331*	*-2,946*	*-3,795*
				TWDB Table 12 Strategies	Lake Texoma (from Sherman)	988	1,508	1,868	2,331	2,946	3,795
				Total Supply Less Demand		0	0	0	0	0	0
Manufacturing	31001091	Grayson	Trinity	TWDB Table 2 Demands		10	11	11	12	13	14
				TWDB Table 5 Supply	Woodbine Aquifer	6	6	6	6	6	6
				Current Supply Less Demand		*-4*	*-5*	*-5*	*-6*	*-7*	*-8*
				TWDB Table 12 Strategies	Lake Texoma (from Sherman)	4	5	5	6	7	8
				Total Supply Less Demand		0	0	0	0	0	0
Mining	31003091	Grayson	Red	TWDB Table 2 Demands		376	377	384	394	405	416
				TWDB Table 5 Supply	Trinity Aquifer	13	13	13	12	12	12
					Woodbine Aquifer	20	20	20	20	20	20
				Current Supply Less Demand		*-343*	*-344*	*-351*	*-362*	*-373*	*-384*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer, new well	242	0	0	0	0	0
					Overdraft Trinity Aquifer	101	0	0	0	0	0
					Reallocate Trinity Aquifer, new well	0	483	483	483	483	483
					Reallocate Trinity Aquifer	0	57	57	57	57	57
				Total Supply Less Demand		0	196	189	178	167	156
Mining	31003091	Grayson	Trinity	TWDB Table 2 Demands		657	567	537	532	531	538
				TWDB Table 5 Supply	Trinity Aquifer	154	154	154	138	138	138
					Woodbine Aquifer	214	214	214	214	214	214

				Current Supply Less Demand		*-289*	*-199*	*-169*	*-180*	*-179*	*-186*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer, new well	81	0	0	0	0	0
					Overdraft Trinity Aquifer	208	0	0	0	0	0
					Reallocate Trinity Aquifer, new well	0	81	81	81	81	81
					Reallocate Trinity Aquifer	0	125	125	125	125	125
				Total Supply Less Demand		0	7	37	26	27	20

Henderson County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Athens	30041000	Henderson	Trinity	Population		12,800	13,555	14,354	15,200	16,097	17,406
				TWDB Table 2 Demands		2,251	2,384	2,412	2,554	2,705	2,925
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	726	562	562	562	562	562
					Lake Athens	6,262	6,162	6,162	6,062	6,062	5,962
				Current Supply Less Demand		*4,737*	*4,340*	*4,312*	*4,070*	*3,919*	*3,599*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		4,737	4,340	4,312	4,070	3,919	3,599
Eustace	30286000	Henderson	Trinity	Population		904	980	1,041	1,085	1,110	1,112
				TWDB Table 2 Demands		122	127	131	131	129	125
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	133	133	133	133	133	133
				Current Supply Less Demand		*11*	*6*	*2*	*2*	*4*	*8*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		11	6	2	2	4	8
Gun Barrell City	30369000	Henderson	Trinity	Population		4,710	5,417	6,048	6,417	6,662	6,915
				TWDB Table 2 Demands		1,055	1,141	1,237	1,292	1,333	1,369
				TWDB Table 5 Supply	East Cedar Creek FWSD (TRWD) Cedar Creek/Richland-Chambers System	1,055	1,141	1,237	1,292	1,333	1,369
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Mabank	30554000	Henderson	Trinity	Population		358	448	535	611	616	621
(Partial)				TWDB Table 2 Demands		72	90	99	113	114	115

				TWDB Table 5 Supply	TRWD Cedar Creek/Richland-Chambers System	72	90	99	113	114	115
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Malakoff	30557000	Henderson	Trinity	Population		2,378	2,615	2,824	2,924	2,974	3,071
				TWDB Table 2 Demands		429	448	462	468	466	478
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	420	420	420	420	420	420
				Current Supply Less Demand		*-9*	*-28*	*-42*	*-48*	*-46*	*-58*
				TWDB Table 12 Strategies	Overdraft Carrizo-Wilcox Aquifer	9	0	0	0	0	0
					TRWD	0	560	560	563	563	563
				Total Supply Less Demand		0	532	518	515	517	505
Payne Springs	30682000	Henderson	Trinity	Population		810	869	899	949	1,015	1,081
				TWDB Table 2 Demands		168	174	174	180	188	199
				TWDB Table 5 Supply	East Cedar Creek FWSD (TRWD) Cedar Creek/Richland-Chambers System	168	174	174	180	188	199
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Seven Points	30818000	Henderson	Trinity	Population		940	966	982	1,020	1,075	1,128
				TWDB Table 2 Demands		121	120	118	118	119	120
				TWDB Table 5 Supply	West Cedar Creek MUD (TRWD) Cedar Creek/Richland-Chambers System	121	120	118	118	119	120
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Tool	30906000	Henderson	Trinity	Population		2,180	2,435	2,661	2,780	2,849	2,920
				TWDB Table 2 Demands		366	376	384	399	402	409
				TWDB Table 5 Supply	West Cedar Creek MUD (TRWD) Cedar Creek/Richland-Chambers System	366	376	384	399	402	409

				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Trinidad	30909000	Henderson	Trinity	Population		1,228	1,315	1,392	1,422	1,423	1,428
				TWDB Table 2 Demands		195	192	195	199	199	200
				TWDB Table 5 Supply	Trinidad City Lake	1,000	1,000	1,000	1,000	1,000	1,000
				Current Supply Less Demand		*805*	*808*	*805*	*801*	*801*	*800*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		805	808	805	801	801	800
County-Other	30996107	Henderson	Trinity	Population		20,254	22,661	24,779	25,296	24,869	24,794
				TWDB Table 2 Demands		2,708	2,919	3,081	3,060	2,897	2,777
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	1,639	1,639	1,639	1,639	1,639	1,639
					Other Aquifer	24	24	24	24	24	24
					TRWD Cedar Creek/Richland-Chambers System	1,045	1,256	1,418	1,397	1,234	1,114
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Irrigation	31004107	Henderson	Trinity	TWDB Table 2 Demands		30	30	30	30	30	30
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	21	21	21	21	21	21
					Irrigation Local Supply	2,382	2,382	2,382	2,382	2,382	2,382
				Current Supply Less Demand		*2,373*	*2,373*	*2,373*	*2,373*	*2,373*	*2,373*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		2,373	2,373	2,373	2,373	2,373	2,373
Livestock	31005107	Henderson	Trinity	TWDB Table 2 Demands		900	900	900	900	900	900
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	527	527	527	527	527	527
					Other Aquifer	143	143	143	143	143	143
					Queen City Aquifer	54	54	54	54	54	54
					Livestock Local Supply	475	475	475	475	475	475
				Current Supply Less Demand		*299*	*299*	*299*	*299*	*299*	*299*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		299	299	299	299	299	299
Manufacturing	31001107	Henderson	Trinity	TWDB Table 2 Demands		96	107	115	129	147	167
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	320	320	320	320	320	320
					Lake Athens	38	38	38	38	38	38

				Current Supply Less Demand		*262*	*251*	*243*	*229*	*211*	*191*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		262	251	243	229	211	191
Mining	31003107	Henderson	Trinity	TWDB Table 2 Demands		184	161	140	124	108	94
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	466	466	466	466	466	466
					Other Local Supply	29	29	29	29	29	29
				Current Supply Less Demand		*311*	*334*	*355*	*371*	*387*	*401*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		311	334	355	371	387	401
Steam Electric Power	31002107	Henderson	Trinity	TWDB Table 2 Demands		4,000	4,000	4,000	4,000	4,000	4,000
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	1	1	1	1	1	1
					TRWD Cedar Creek/Richland-Chambers System	5,800	5,800	5,800	5,800	5,800	5,800
					TXU Forest Grove	3,700	3,700	3,700	3,700	3,700	3,700
					Lake Trinidad	4,000	4,000	4,000	4,000	4,000	4,000
				Current Supply Less Demand		*9,501*	*9,501*	*9,501*	*9,501*	*9,501*	*9,501*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		9,501	9,501	9,501	9,501	9,501	9,501

Jack County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Bryson	30124000	Jack	Brazos	Population		593	597	601	604	608	612
				TWDB Table 2 Demands		76	74	72	70	67	65
				TWDB Table 5 Supply	Lake Bryson	90	90	90	90	90	90
				Current Supply Less Demand		*14*	*16*	*18*	*20*	*23*	*25*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		14	16	18	20	23	25
Jacksboro	30441000	Jack	Trinity	Population		3,640	3,882	4,146	4,450	4,782	5,139
				TWDB Table 2 Demands		591	630	650	698	750	806
				TWDB Table 5 Supply	Lost Creek/Jacksboro System	1,392	1,392	1,392	1,392	1,392	1,392
				Current Supply Less Demand		*801*	*762*	*742*	*694*	*642*	*586*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		801	762	742	694	642	586

County-Other	30996119	Jack	Trinity	Population		2,022	2,047	2,132	2,135	2,078	1,979
				TWDB Table 2 Demands		299	282	273	260	244	230
				TWDB Table 5 Supply	Trinity Aquifer	315	315	315	315	315	284
					Lost Creek/Jacksboro System	5	5	5	5	5	5
				Current Supply Less Demand		*21*	*38*	*47*	*60*	*76*	*59*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		21	38	47	60	76	59
County-Other	30996119	Jack	Brazos	Population		1,564	1,613	1,712	1,745	1,707	1,623
				TWDB Table 2 Demands		240	230	225	219	207	195
				TWDB Table 5 Supply	Trinity Aquifer	250	250	250	250	250	225
					Lake Bryson (not reliable supply in this study)	0	0	0	0	0	0
				Current Supply Less Demand		*10*	*20*	*25*	*31*	*43*	*30*
				TWDB Table 12 Strategies		0	0	0	0	0	0
				Total Supply Less Demand		10	20	25	31	43	30
Irrigation	31004119	Jack	Trinity	TWDB Table 2 Demands		0	0	0	0	0	0
				TWDB Table 5 Supply	Irrigation Local Supply	110	110	110	110	110	110
					Jacksboro Reuse	0	200	200	200	200	200
				Current Supply Less Demand		*110*	*310*	*310*	*310*	*310*	*310*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		110	310	310	310	310	310
Irrigation	31004119	Jack	Brazos	TWDB Table 2 Demands		12	12	12	12	12	12
				TWDB Table 5 Supply	Other Aquifer	16	16	16	16	16	16
					Irrigation Local Supply	15	15	15	15	15	15
				Current Supply Less Demand		*19*	*19*	*19*	*19*	*19*	*19*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		19	19	19	19	19	19
Livestock	31005119	Jack	Trinity	TWDB Table 2 Demands		643	643	643	643	643	643
				TWDB Table 5 Supply	Other Aquifer	169	169	169	169	169	169
					Livestock Local Supply	1,214	1,214	1,214	1,214	1,214	1,214
				Current Supply Less Demand		*740*	*740*	*740*	*740*	*740*	*740*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		740	740	740	740	740	740

Livestock	31005119	Jack	Brazos	TWDB Table 2 Demands		239	239	239	239	239	239
				TWDB Table 5 Supply	Other Aquifer	63	63	63	63	63	63
					Livestock Local Suply	451	451	451	451	451	451
				Current Supply Less Demand		*275*	*275*	*275*	*275*	*275*	*275*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		275	275	275	275	275	275
Mining	31003119	Jack	Trinity	TWDB Table 2 Demands		540	477	458	449	453	462
				TWDB Table 5 Supply	Other Aquifer	281	281	281	281	281	281
					Other Local Supply	370	370	370	370	370	370
				Current Supply Less Demand		*111*	*174*	*193*	*202*	*198*	*189*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		111	174	193	202	198	189
Mining	31003119	Jack	Brazos	TWDB Table 2 Demands		4	2	2	1	0	0
				TWDB Table 5 Supply	Other Aquifer	5	5	5	5	5	5
				Current Supply Less Demand		*1*	*3*	*3*	*4*	*5*	*5*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		1	3	3	4	5	5

Kaufman County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Combine	30193000	Kaufman	Trinity	Population		1,575	1,856	2,144	2,391	2,584	2,793
(Partial)				TWDB Table 2 Demands		256	333	384	415	434	454
				TWDB Table 5 Supply	Lake Ray Hubbard (DWU thru Combine WSC)	61	71	80	120	119	121
					Tawakoni (DWU thru Combine WSC)	162	191	258	322	321	328
				Current Supply Less Demand		*-33*	*-71*	*-46*	*27*	*6*	*-5*
				TWDB Table 12 Strategies	Combine WSC (DWU)	37	119	60	0	0	7
				Total Supply Less Demand		4	48	14	27	6	2
Crandall	30210000	Kaufman	Trinity	Population		2,490	3,387	4,295	5,108	5,611	6,164
				TWDB Table 2 Demands		399	543	625	744	817	898
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse (thru Kaufman Four One)	236	238	221	224	214	212
					Lake Texoma (NTMWD thru Kaufman Four One)	130	133	125	129	124	125
					Chapman (NTMWD thru Kaufman Four One)	91	92	85	87	84	84

				Current Supply Less Demand		*58*	*-80*	*-194*	*-304*	*-395*	*-477*
				TWDB Table 12 Strategies	Kaufman Four One (NTMWD)	0	126	292	451	433	566
				Total Supply Less Demand		58	46	98	147	38	89
Dallas	30227000	Kaufman	Trinity	Population		8	8	8	8	8	8
(Partial)				TWDB Table 2 Demands		2	2	2	2	2	2
				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	0	0	0	0	0	0
					Lake Ray Hubbard (DWU)	0	0	0	1	1	0
					Tawakoni (DWU)	1	1	1	2	2	1
				Current Supply Less Demand		*-1*	*-1*	*-1*	*1*	*1*	*-1*
				TWDB Table 12 Strategies	DWU	1	2	2	0	0	1
				Total Supply Less Demand		0	1	1	1	1	0
Forney	30304000	Kaufman	Trinity	Population		5,742	10,000	15,000	21,000	28,000	35,000
				TWDB Table 2 Demands		1,042	2,128	3,276	4,493	5,896	7,331
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	616	934	1,157	1,354	1,544	1,733
					Lake Texoma (NTMWD)	341	522	655	777	898	1,022
					Chapman (NTMWD)	239	360	447	527	604	682
				Current Supply Less Demand		*154*	*-312*	*-1,017*	*-1,835*	*-2,850*	*-3,894*
				TWDB Table 12 Strategies	NTMWD	0	494	1,535	2,723	3,123	4,626
				Total Supply Less Demand		154	182	518	888	273	732
Kaufman	30459000	Kaufman	Trinity	Population		7,544	9,656	11,771	13,661	15,090	16,560
				TWDB Table 2 Demands		1,014	1,255	1,477	1,653	1,758	1,855
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	599	551	521	498	460	439
					Lake Texoma (NTMWD)	331	308	295	286	268	258
					Chapman (NTMWD)	232	212	202	194	180	173
				Current Supply Less Demand		*148*	*-184*	*-459*	*-675*	*-850*	*-985*
				TWDB Table 12 Strategies	NTMWD	0	291	692	1,002	931	1,170
				Total Supply Less Demand		148	107	233	327	81	185
Kemp	30463000	Kaufman	Trinity	Population		1,909	2,300	2,758	3,156	3,410	3,684
				TWDB Table 2 Demands		245	283	324	354	382	413
				TWDB Table 5 Supply	TRWD Cedar Creek/Richland-Chambers System	526	526	526	526	526	526
				Current Supply Less Demand		*281*	*243*	*202*	*172*	*144*	*113*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		281	243	202	172	144	113

Mabank	30554000	Kaufman	Trinity	Population		2,423	2,992	3,575	4,079	4,401	4,748
(Partial)				TWDB Table 2 Demands		489	603	661	754	813	878
				TWDB Table 5 Supply	TRWD Cedar Creek/Richland-Chambers System	489	603	661	754	813	878
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Oak Grove	30646000	Kaufman	Trinity	Population		797	876	947	1,004	1,045	1,067
				TWDB Table 2 Demands		107	114	119	121	122	120
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse (thru Kaufman)	63	50	42	36	32	28
					Lake Texoma (NTMWD thru Kaufman)	35	28	24	21	19	17
					Chapman (NTMWD thru Kaufman)	25	19	16	14	12	11
				Current Supply Less Demand		*16*	*-17*	*-37*	*-50*	*-59*	*-64*
				TWDB Table 12 Strategies	Kaufman (NTMWD)	0	27	56	73	65	77
				Total Supply Less Demand		16	10	19	23	6	13
Terrell	30887000	Kaufman	Trinity	Population		14,213	17,432	20,582	23,342	24,795	26,338
				TWDB Table 2 Demands		2,946	3,417	3,827	4,262	4,471	4,721
				TWDB Table 5 Supply	Lake Tawakoni	9,749	9,722	9,689	9,662	9,634	9,601
					Lake Terrell	1,518	1,503	1,487	1,471	1,453	1,435
				Current Supply Less Demand		*8,321*	*7,808*	*7,349*	*6,871*	*6,616*	*6,315*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		8,321	7,808	7,349	6,871	6,616	6,315
County-Other	30996129	Kaufman	Sabine	Population		1,240	1,509	1,842	2,167	2,421	2,571
				TWDB Table 2 Demands		171	201	238	270	291	298
				TWDB Table 5 Supply	Other Aquifer	124	124	124	124	124	124
					Lake Tawakoni (Terrell)	1	1	1	1	1	1
					NTMWD Lake Lavon/Reuse	27	33	40	44	43	41
					Lake Texoma (NTMWD)	15	19	23	25	25	24
					Chapman (NTMWD)	11	13	15	17	17	16
				Current Supply Less Demand		*7*	*-11*	*-35*	*-59*	*-81*	*-92*
				TWDB Table 12 Strategies	NTMWD	0	17	53	88	89	109
				Total Supply Less Demand		7	6	18	29	8	17
County-Other	30996129	Kaufman	Trinity	Population		30,427	37,090	45,369	53,443	59,743	63,484
				TWDB Table 2 Demands		4,268	5,031	5,950	6,769	7,299	7,471

				TWDB Table 5 Supply	Other Aquifer	87	87	87	87	87	87
					Lake Tawakoni (Terrell)	187	187	187	187	187	187
					Cedar Creek/Richland-Chambers System (TRWD)	704	877	1,122	1,334	1,483	1,547
					Reuse	200	300	300	300	300	300
					NTMWD Lake Lavon/Reuse	2,227	1,594	1,487	1,430	1,326	1,214
					Lake Texoma (NTMWD)	1,231	892	842	821	771	716
					Chapman (NTMWD)	863	614	575	556	519	478
				Current Supply Less Demand		*1,231*	*-480*	*-1,350*	*-2,054*	*-2,626*	*-2,942*
				TWDB Table 12 Strategies	NTMWD	0	759	2,038	3,031	2,815	3,394
					Terrell (Lake Tawakoni)	0	60	155	230	295	330
				Total Supply Less Demand		1,231	339	843	1,207	484	782
Irrigation	31004129	Kaufman	Trinity	TWDB Table 2 Demands		759	739	719	700	681	663
				TWDB Table 5 Supply	Nacatoch Aquifer	15	15	15	15	15	15
					Irrigation Local Supply	347	347	347	347	347	347
				Current Supply Less Demand		*-397*	*-377*	*-357*	*-338*	*-319*	*-301*
				TWDB Table 12 Strategies	Additional Irrigation Local Supply	397	377	357	338	319	301
				Total Supply Less Demand		0	0	0	0	0	0
Livestock	31005129	Kaufman	Sabine	TWDB Table 2 Demands		72	72	72	72	72	72
				TWDB Table 5 Supply	Nacatoch Aquifer	7	7	7	7	7	7
					Livestock Local Supply	91	91	91	91	91	91
				Current Supply Less Demand		*26*	*26*	*26*	*26*	*26*	*26*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		26	26	26	26	26	26
Livestock	31005129	Kaufman	Trinity	TWDB Table 2 Demands		1,210	1,210	1,210	1,210	1,210	1,210
				TWDB Table 5 Supply	Nacatoch Aquifer	38	38	38	38	38	38
					Woodbine Aquifer	135	135	135	135	135	135
					Livestock Local Supply	1,531	1,531	1,531	1,531	1,531	1,531
				Current Supply Less Demand		*494*	*494*	*494*	*494*	*494*	*494*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		494	494	494	494	494	494
Manufacturing	31001129	Kaufman	Trinity	TWDB Table 2 Demands		343	364	387	406	433	463
				TWDB Table 5 Supply	Lake Terrell	132	131	130	129	127	125
					NTMWD Lake Lavon/Reuse	179	104	83	72	66	63
					Lake Texoma (NTMWD)	99	58	47	41	38	37
					Chapman (NTMWD)	69	40	32	28	26	25

				Current Supply Less Demand		*136*	*-31*	*-95*	*-136*	*-176*	*-213*
				TWDB Table 12 Strategies	NTMWD	0	30	86	121	115	153
					Terrell (Lake Terrell)	0	5	30	45	65	75
				Total Supply Less Demand		136	4	21	30	4	15
Mining	31003129	Kaufman	Trinity	TWDB Table 2 Demands		96	106	121	136	151	168
				TWDB Table 5 Supply	Otherr Local Supply	75	75	75	75	75	75
				Current Supply Less Demand		*-21*	*-31*	*-46*	*-61*	*-76*	*-93*
				TWDB Table 12 Strategies	Overdraft Woodbine, new well	21	0	0	0	0	0
					TRWD (new customer)	0	79	74	105	97	135
				Total Supply Less Demand		0	48	28	44	21	42
Steam Electric Power	31002129	Kaufman	Trinity	TWDB Table 2 Demands		7,800	8,000	8,000	10,000	10,000	15,000
				TWDB Table 5 Supply		0	0	0	0	0	0
				Current Supply Less Demand		*-7,800*	*-8,000*	*-8,000*	*-10,000*	*-10,000*	*-15,000*
				TWDB Table 12 Strategies	Garland Reuse	15,694	15,694	15,694	15,694	15,694	15,694
				Total Supply Less Demand		7,894	7,694	7,694	5,694	5,694	694

Navarro County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Blooming Grove	30090000	Navarro	Trinity	Population		889	911	935	958	982	1,007
				TWDB Table 2 Demands		115	113	112	111	109	107
				TWDB Table 5 Supply	Corsicana (TRA) Navarro Mills Reservoir	284	262	250	230	214	200
				Current Supply Less Demand		*169*	*149*	*138*	*119*	*105*	*93*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		169	149	138	119	105	93
Corsicana	30207000	Navarro	Trinity	Population		25,000	29,239	31,665	34,291	37,135	40,215
				TWDB Table 2 Demands		5,013	5,568	5,746	6,223	6,739	7,298
				TWDB Table 5 Supply	Lake Halbert	358	358	358	358	358	358
					TRA Navarro Mills Reservoir	11,561	12,039	12,016	12,181	12,566	12,983
					Richland Chambers Reservoir (Infrastructure not in place)	0	0	0	0	0	0
				Current Supply Less Demand		*6,906*	*6,829*	*6,628*	*6,316*	*6,185*	*6,043*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0

				Total Supply Less Demand		6,906	6,829	6,628	6,316	6,185	6,043
Dawson	30230000	Navarro	Trinity	Population		761	735	696	669	670	674
				TWDB Table 2 Demands		147	142	125	120	120	121
				TWDB Table 5 Supply	Corsicana (TRA) Navarro Mills Reservoir	366	329	278	249	236	226
					TRA Navarro Mills Reservoir	368	368	368	368	368	368
				Current Supply Less Demand		*587*	*555*	*521*	*497*	*484*	*473*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		587	555	521	497	484	473
Frost	30321000	Navarro	Trinity	Population		618	634	650	666	683	700
				TWDB Table 2 Demands		84	83	82	81	80	79
				TWDB Table 5 Supply	Woodbine Aquifer	104	104	104	104	104	104
					Corsicana (TRA) Navarro Mills Reservoir - no historical use	0	0	0	0	0	0
				Current Supply Less Demand		*20*	*21*	*22*	*23*	*24*	*25*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		20	21	22	23	24	25
Kerens	30466000	Navarro	Trinity	Population		1,700	1,700	1,700	1,700	1,700	1,700
				TWDB Table 2 Demands		190	190	190	190	190	190
				TWDB Table 5 Supply	Chatfield WSC (TRA) Navarro Mills Reservoir	236	220	212	197	187	178
					Corsicana (TRA) Navarro Mills Reservoir	236	220	212	197	187	178
				Current Supply Less Demand		*282*	*250*	*234*	*204*	*184*	*166*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		282	250	234	204	184	166
Rice	30746000	Navarro	Trinity	Population		673	695	743	781	819	871
				TWDB Table 2 Demands		185	182	186	191	198	209
				TWDB Table 5 Supply	Rice WSC (Corsicana - TRA) Navarro Mills Reservoir	459	421	414	398	390	390
				Current Supply Less Demand		*274*	*239*	*228*	*207*	*192*	*181*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		274	239	228	207	192	181
County-Other	30996175	Navarro	Trinity	Population		15,550	15,293	16,642	17,950	17,211	15,833

				TWDB Table 2 Demands		2,264	2,158	2,274	2,353	2,178	1,933
				TWDB Table 5 Supply	Trinity Aquifer	61	61	61	61	61	61
					Woodbine Aquifer	131	131	131	131	131	131
					TRWD Cedar Creek/Richland-Chambers System	561	561	561	561	561	561
					Corsiana (TRA) Navarro Mills Reservoir	3,410	2,991	3,048	2,925	2,529	2,087
					Corsicana's Lake Halbert	179	179	179	179	179	179
				Current Supply Less Demand		*2,078*	*1,765*	*1,706*	*1,504*	*1,283*	*1,086*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		2,078	1,765	1,706	1,504	1,283	1,086
Irrigation	31004175	Navarro	Trinity	TWDB Table 2 Demands		0	0	0	0	0	0
				TWDB Table 5 Supply	Irrigation Local Supply	2,901	2,841	2,841	2,841	2,841	2,841
				Current Supply Less Demand		*2,901*	*2,841*	*2,841*	*2,841*	*2,841*	*2,841*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		2,901	2,841	2,841	2,841	2,841	2,841
Livestock	31005175	Navarro	Trinity	TWDB Table 2 Demands		1,331	1,331	1,331	1,331	1,331	1,331
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	16	16	16	16	16	16
					Nacatoch Aquifer	11	11	11	11	11	11
					Other Aquifer	103	109	120	131	142	154
					Livestock Local Supply	1,603	1,603	1,603	1,603	1,603	1,603
				Current Supply Less Demand		*402*	*408*	*419*	*430*	*441*	*453*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		402	408	419	430	441	453
Manufacturing	31001175	Navarro	Trinity	TWDB Table 2 Demands		868	968	1,043	1,118	1,215	1,312
				TWDB Table 5 Supply	Other Aquifer	1	1	1	1	1	1
					Corsicana's Lake Halbert	63	63	63	63	63	63
					TRA Navarro Mills Reservoir	450	450	450	450	450	450
					Corsicana (TRA) Navarro Mills Reservoir	608	678	730	783	851	918
				Current Supply Less Demand		*254*	*224*	*201*	*179*	*150*	*120*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		254	224	201	179	150	120
Mining	31003175	Navarro	Trinity	TWDB Table 2 Demands		104	110	121	132	143	155
				TWDB Table 5 Supply	Carrizo-Wilcox Aquifer	74	74	74	74	74	74

					Nacatoch Aquifer	38	38	38	38	38	38
				Current Supply Less Demand		*8*	*2*	*-9*	*-20*	*-31*	*-43*
				TWDB Table 12 Strategies	Add new well & Pump Carrizo-Wilcox Aquifer	0	0	50	50	50	50
				Total Supply Less Demand		8	2	41	30	19	7

Parker County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Aledo	30009000	Parker	Trinity	Population		1,633	2,282	3,187	4,453	5,173	5,173
				TWDB Table 2 Demands		183	320	535	748	869	869
				TWDB Table 5 Supply	Trinity Aquifer	166	166	166	137	137	137
				Current Supply Less Demand		*-17*	*-154*	*-369*	*-611*	*-732*	*-732*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	17	0	0	0	0	0
					TRWD (through Weatherford)	0	394	594	1,058	938	1,059
				Total Supply Less Demand		0	240	225	447	206	327
Annetta	30030000	Parker	Trinity	Population		945	1,329	1,870	2,630	3,699	5,203
				TWDB Table 2 Demands		106	186	314	442	622	874
				TWDB Table 5 Supply	Other Aquifer	88	88	88	73	73	73
				Current Supply Less Demand		*-18*	*-98*	*-226*	*-369*	*-549*	*-801*
				TWDB Table 12 Strategies	Add New Well & Overdraft Other Aquifer	18	0	0	0	0	0
					TRWD (through Weatherford)	0	250	364	638	703	1,157
				Total Supply Less Demand		0	152	138	269	154	356
Azle	30046000	Parker	Trinity	Population		1,844	2,179	2,398	2,642	2,911	3,207
(Partial)				TWDB Table 2 Demands		279	361	422	476	505	528
				TWDB Table 5 Supply	TRWD West Fork	296	341	399	426	423	418
				Current Supply Less Demand		*17*	*-20*	*-23*	*-50*	*-82*	*-110*
				TWDB Table 12 Strategies	TRWD	0	51	37	87	106	159
				Total Supply Less Demand		17	31	14	37	24	49
Briar	30110000	Parker	Trinity	Population		673	797	928	1,073	1,192	1,324
(Partial)				TWDB Table 2 Demands		97	112	129	145	159	172
				TWDB Table 5 Supply	Community WSC (TRWD West Fork less Brigdeport System)	103	106	122	130	133	136
				Current Supply Less Demand		*6*	*-6*	*-7*	*-15*	*-26*	*-36*
				TWDB Table 12 Strategies	Community WSC (TRWD)	0	15	11	26	33	52

				Total Supply Less Demand		6	9	4	11	7	16
Hudson Oaks	30422000	Parker	Trinity	Population		1,440	2,915	5,903	10,394	10,394	10,394
				TWDB Table 2 Demands		161	408	992	1,746	1,746	1,746
				TWDB Table 5 Supply	Trinity Aquifer	122	122	122	101	101	101
				Current Supply Less Demand		*-39*	*-286*	*-870*	*-1,645*	*-1,645*	*-1,645*
				TRWD Responsibility		0	-286	-870	-1,645	-1,645	-1,645
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	39	0	0	0	0	0
					TRWD	0	731	1,401	2,848	2,108	2,379
				Total Supply Less Demand		0	445	531	1,203	463	734
Mineral Wells	30600000	Parker	Brazos	Population		522	600	683	780	859	946
				TWDB Table 2 Demands		98	106	115	128	138	150
				TWDB Table 5 Supply	Lake Mineral Wells	0	0	0	0	0	0
					Lake Palo Pinto	98	106	115	128	138	150
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Reno	30744000	Parker	Trinity	Population		2,884	3,287	3,771	4,306	4,785	5,318
				TWDB Table 2 Demands		323	368	528	603	670	745
				TWDB Table 5 Supply	Trinity Aquifer	147	147	147	121	121	121
					TRWD West Fork (thru Springtown)	187	209	360	432	460	512
				Current Supply Less Demand		*11*	*-12*	*-21*	*-50*	*-89*	*-112*
				TWDB Table 12 Strategies	TRWD (thru Springtown)	0	31	34	87	114	161
				Total Supply Less Demand		11	19	13	37	25	49
Springtown	30853000	Parker	Trinity	Population		2,432	3,149	3,873	4,638	5,262	5,970
				TWDB Table 2 Demands		409	617	759	857	943	1,037
				TWDB Table 5 Supply	Trinity Aquifer	109	109	109	90	90	90
					TRWD West Fork	318	480	614	687	714	763
				Current Supply Less Demand		*18*	*-28*	*-36*	*-80*	*-139*	*-184*
				TWDB Table 12 Strategies	TRWD	0	72	58	138	178	266
				Total Supply Less Demand		18	44	22	58	39	82
Weatherford	30944000	Parker	Trinity	Population		19,083	25,896	35,141	47,688	64,713	87,816
				TWDB Table 2 Demands		3,420	4,351	5,905	8,012	10,874	14,755
				TWDB Table 5 Supply	Lake Weatherford (self)	1,448	1,339	1,252	1,158	1,064	977
					TRWD Lake Benbrook	0	0	0	0	0	0
				Current Supply Less Demand		*-1,972*	*-3,012*	*-4,653*	*-6,854*	*-9,810*	*-13,778*
				TWDB Table 12 Strategies	Overdraft Lake Weatherford	1,972	0	0	0	0	0
					TRWD	0	7,701	7,500	11,894	12,609	19,938
				Total Supply Less Demand		0	4,689	2,847	5,040	2,799	6,160

Weatherford	30944000	Parker	Brazos	Population		1,006	1,366	1,854	2,515	3,413	4,632
				TWDB Table 2 Demands		181	230	311	423	573	778
				TWDB Table 5 Supply	Lake Weatherford (self)	88	81	76	70	64	59
					TRWD Lake Benbrook	0	0	0	0	0	0
				Current Supply Less Demand		*-93*	*-149*	*-235*	*-353*	*-509*	*-719*
				TWDB Table 12 Strategies	Overdraft Lake Weatherford	93	0	0	0	0	0
					TRWD	0	381	378	611	652	1,040
				Total Supply Less Demand		0	232	143	258	143	321
Willow Park	30973000	Parker	Trinity	Population		3,252	4,544	6,347	8,868	12,388	17,307
				TWDB Table 2 Demands		364	636	1,066	1,490	2,081	2,908
				TWDB Table 5 Supply	Trinity Aquifer	328	328	328	271	271	271
				Current Supply Less Demand		*-36*	*-308*	*-738*	*-1,219*	*-1,810*	*-2,637*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	36	0	0	0	0	0
					TRWD (through Weatherford)	0	787	1,188	2,110	2,319	3,813
				Total Supply Less Demand		0	479	450	891	509	1,176
County-Other	30996184	Parker	Trinity	Population		28,922	32,853	33,926	31,903	26,800	15,549
				TWDB Table 2 Demands		3,223	4,576	4,727	5,338	4,488	2,604
				TWDB Table 5 Supply	Trinity Aquifer	1,406	1,406	1,406	1,159	1,159	1,159
					Woodbine Aquifer	4	4	4	3	3	3
					Other Aquifer	68	68	68	56	56	56
					Walnut Creek SUD (TRWD Bridgeport Local)	461	573	643	634	494	265
					TRWD West Fork	668	845	871	930	730	401
				Current Supply Less Demand		*-616*	*-1,680*	*-1,735*	*-2,556*	*-2,046*	*-720*
				TWDB Table 12 Strategies	Add New Wells & Overdraft Trinity Aquifer	616	0	0	0	0	0
					TRWD (thru Weatherford)	0	4,295	2,794	4,425	2,621	1,041
				Total Supply Less Demand		0	2,615	1,059	1,869	575	321
County-Other	30996184	Parker	Brazos	Population		15,800	17,898	18,406	17,204	14,434	8,377
				TWDB Table 2 Demands		1,787	2,530	2,600	2,913	2,440	1,416
				TWDB Table 5 Supply	Trinity Aquifer	969	969	969	834	834	834
					Woodbine Aquifer	3	3	3	3	3	3
					Other Aquifer	48	48	48	48	48	48
					Lake Palo Pinto	297	422	435	490	490	490
					Walnut Creek SUD (TRWD Bridgeport Local)	198	245	276	272	212	113
				Current Supply Less Demand		*-272*	*-843*	*-869*	*-1,266*	*-853*	*72*

				TRWD Responsibility		0	-843	-869	-1,266	-853	0
				TWDB Table 12 Strategies	Add New Wells & Overdraft Trinity Aquifer	272	0	0	0	0	0
					TRWD (thru Weatherford)	0	2,155	1,399	2,191	1,093	0
				Total Supply Less Demand		0	1,312	530	925	240	72
Irrigation	31004184	Parker	Trinity	TWDB Table 2 Demands		1	1	1	1	1	1
				TWDB Table 5 Supply	Trinity Aquifer	24	24	24	20	20	20
					Irrigation Local Supply	472	472	472	472	472	472
				Current Supply Less Demand		*495*	*495*	*495*	*491*	*491*	*491*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		495	495	495	491	491	491
Irrigation	31004184	Parker	Brazos	TWDB Table 2 Demands		29	29	29	29	29	29
				TWDB Table 5 Supply	Trinity Aquifer	69	69	69	59	59	59
					Irrigation Local Supply	1,317	1,317	1,317	1,317	1,317	1,317
				Current Supply Less Demand		*1,357*	*1,357*	*1,357*	*1,347*	*1,347*	*1,347*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		1,357	1,357	1,357	1,347	1,347	1,347
Livestock	31005184	Parker	Trinity	TWDB Table 2 Demands		689	689	689	689	689	689
				TWDB Table 5 Supply	Trinity Aquifer	103	103	103	85	85	85
					Livestock Local Supply	1,026	1,026	1,026	1,026	1,026	1,026
				Current Supply Less Demand		*440*	*440*	*440*	*422*	*422*	*422*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		440	440	440	422	422	422
Livestock	31005184	Parker	Brazos	TWDB Table 2 Demands		601	601	601	601	601	601
				TWDB Table 5 Supply	Trinity Aquifer	125	125	125	108	108	108
					Livestock Local Supply	896	896	896	896	896	896
				Current Supply Less Demand		*420*	*420*	*420*	*403*	*403*	*403*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		420	420	420	403	403	403
Manufacturing	31001184	Parker	Trinity	TWDB Table 2 Demands		236	262	287	311	337	358
				TWDB Table 5 Supply	Trinity Aquifer	18	18	18	15	15	15
					Lake Weatherford	244	226	211	195	179	164
				Current Supply Less Demand		*26*	*-18*	*-58*	*-101*	*-143*	*-179*
				TWDB Table 12 Strategies	TRWD (thru Weatherford)	0	46	94	175	183	259
				Total Supply Less Demand		26	28	36	74	40	80
Manufacturing	31001184	Parker	Brazos	TWDB Table 2 Demands		67	80	93	105	125	139
				TWDB Table 5 Supply	Trinity Aquifer	43	43	43	37	37	37

					Lake Palo Pinto	3	4	4	4	4	4
				Current Supply Less Demand		*-21*	*-33*	*-46*	*-64*	*-84*	*-98*
				TWDB Table 12 Strategies	Add New Well & Overdraft Trinity Aquifer	21	0	0	0	0	0
					TRWD (thru Weatherford)	0	85	74	111	107	142
				Total Supply Less Demand		0	52	28	47	23	44
Mining	31003184	Parker	Trinity	TWDB Table 2 Demands		63	62	64	66	68	70
				TWDB Table 5 Supply	Trinity Aquifer	50	50	50	41	41	41
				Current Supply Less Demand		*-13*	*-12*	*-14*	*-25*	*-27*	*-29*
				TWDB Table 12 Strategies	Increase diversions from other local supply	13	15	20	30	30	40
				Total Supply Less Demand		0	3	6	5	3	11
Mining	31003184	Parker	Brazos	TWDB Table 2 Demands		1,803	2,003	2,288	2,574	2,895	3,256
				TWDB Table 5 Supply	Other Local Supply	242	242	242	242	242	242
					Possum Kingdom (BRA)	35	35	35	35	35	35
				Current Supply Less Demand		*-1,526*	*-1,726*	*-2,011*	*-2,297*	*-2,618*	*-2,979*
				TWDB Table 12 Strategies	Increase diversions from other local supply	1,526	1,730	2,020	2,305	2,625	2,990
				Total Supply Less Demand		0	4	9	8	7	11
Steam Electric Power	31002184	Parker	Trinity	TWDB Table 2 Demands		0	6,000	6,000	10,000	12,000	12,000
				TWDB Table 5 Supply	Lake Weatherford	220	204	191	177	163	150
				Current Supply Less Demand		*220*	*-5,796*	*-5,809*	*-9,823*	*-11,837*	*-11,850*
				TWDB Table 12 Strategies	Weatherford Reuse	0	3,000	3,000	3,000	3,000	3,000
					Weatherford Reuse (parallel pipeline)	0	0	0	3,000	3,000	3,000
					TRWD	0	3,000	3,000	3,000	3,000	3,000
					TRWD Parallel Pipeline	0	0	0	3,000	3,000	3,000
				Total Supply Less Demand		220	204	191	2,177	163	150

Rockwall County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Dallas	30227000	Rockwall	Trinity	Population		44	51	65	86	106	131
(Partial)				TWDB Table 2 Demands		13	16	20	26	32	39
				TWDB Table 5 Supply	Elm Fork/Lake Grapevine System (DWU)	0	0	0	0	0	0
					Lake Ray Hubbard (DWU)	3	3	4	8	9	10
					Tawakoni (DWU)	8	9	15	20	24	28
				Current Supply Less Demand		*-2*	*-4*	*-1*	*2*	*1*	*-1*
				TWDB Table 12 Strategies	DWU	3	7	2	0	0	2

				Total Supply Less Demand		1	3	1	2	1	1
Heath	30388000	Rockwall	Trinity	Population		3,892	5,486	7,682	10,425	13,643	17,856
				TWDB Table 2 Demands		750	1,026	1,394	1,845	2,353	3,000
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse (thru Rockall to RCH WSC)	443	450	492	556	616	709
					Lake Texoma (NTMWD thru Rockall to RCH WSC)	245	252	279	319	358	418
					Chapman (NTMWD thru Rockall to RCH WSC)	172	173	190	216	241	279
				Current Supply Less Demand		*110*	*-151*	*-433*	*-754*	*-1,138*	*-1,594*
				TWDB Table 12 Strategies	RCH WSC (thru Rockwall from NTMWD)	0	239	653	1,119	1,248	1,894
				Total Supply Less Demand		110	88	220	365	110	300
Rockwall	30766000	Rockwall	Trinity	Population		18,297	33,700	49,000	63,300	80,000	96,076
				TWDB Table 2 Demands		4,016	8,643	12,677	16,235	20,428	24,426
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	2,374	3,792	4,476	4,894	5,350	5,775
					Lake Texoma (NTMWD)	1,312	2,122	2,534	2,808	3,111	3,404
					Chapman (NTMWD)	920	1,460	1,731	1,903	2,092	2,272
				Current Supply Less Demand		*590*	*-1,269*	*-3,936*	*-6,630*	*-9,875*	*-12,975*
				TWDB Table 12 Strategies	NTMWD	0	2,008	5,941	9,840	10,822	15,414
				Total Supply Less Demand		590	739	2,005	3,210	947	2,439
Rowlett	30777000	Rockwall	Trinity	Population		6,329	12,056	17,393	24,001	31,847	42,258
(Partial)				TWDB Table 2 Demands		1,326	2,363	3,234	4,382	5,779	7,621
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	784	1,037	1,142	1,321	1,513	1,802
					Lake Texoma (NTMWD)	433	580	646	758	880	1,062
					Chapman (NTMWD)	304	399	442	514	592	709
				Current Supply Less Demand		*195*	*-347*	*-1,004*	*-1,789*	*-2,794*	*-4,048*
				TWDB Table 12 Strategies	NTMWD	0	549	1,515	2,655	3,062	4,809
				Total Supply Less Demand		195	202	511	866	268	761
Royse City	30779000	Rockwall	Sabine	Population		3,600	7,800	11,500	23,600	27,800	31,963
(Partial)				TWDB Table 2 Demands		706	1,485	2,015	4,309	5,045	5,764
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	417	651	711	1,299	1,321	1,363
					Lake Texoma (NTMWD)	231	365	403	745	768	803
					Chapman (NTMWD)	162	251	275	505	517	536
				Current Supply Less Demand		*104*	*-218*	*-626*	*-1,760*	*-2,439*	*-3,062*
				TWDB Table 12 Strategies	NTMWD	0	345	945	2,612	2,673	3,637
				Total Supply Less Demand		104	127	319	852	234	575

Wylie	30991000	Rockwall	Trinity	Population		60	59	64	71	77	84
(Partial)				TWDB Table 2 Demands		11	10	11	11	12	13
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	7	4	4	3	3	3
					Lake Texoma (NTMWD)	4	2	2	2	2	2
					Chapman (NTMWD)	3	2	2	1	1	1
				Current Supply Less Demand		*3*	*-2*	*-3*	*-5*	*-6*	*-7*
				TWDB Table 12 Strategies	NTMWD	0	3	4	7	6	9
				Total Supply Less Demand		3	1	1	2	0	2
County-Other	30996199	Rockwall	Sabine	Population		1,715	429	466	99	1,363	2,903
				TWDB Table 2 Demands		421	100	102	21	293	621
				TWDB Table 5 Supply	Other Aquifer	183	183	183	183	183	183
					NTMWD Lake Lavon/Reuse	248	0	0	0	29	104
					Lake Texoma (NTMWD)	137	0	0	0	17	61
					Chapman (NTMWD)	96	0	0	0	11	41
				Current Supply Less Demand		*243*	*83*	*81*	*162*	*-53*	*-232*
				TWDB Table 12 Strategies	NTMWD	0	0	0	0	59	276
				Total Supply Less Demand		243	83	81	162	6	44
County-Other	30996199	Rockwall	Trinity	Population		7,238	1,811	1,966	418	5,752	12,258
				TWDB Table 2 Demands		1,776	420	432	90	1,236	2,623
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	1,130	184	153	27	324	620
					Lake Texoma (NTMWD)	625	103	86	16	188	366
					Chapman (NTMWD)	438	71	59	11	127	244
					Reuse (NTMWD Buffalo Creek)	1,120	1,120	1,120	1,120	1,120	1,120
				Current Supply Less Demand		*1,537*	*1,058*	*986*	*1,084*	*523*	*-273*
				TWDB Table 12 Strategies	NTMWD	0	0	0	0	0	324
				Total Supply Less Demand		1,537	1,058	986	1,084	523	51
Livestock	31005199	Rockwall	Sabine	TWDB Table 2 Demands		26	26	26	26	26	26
				TWDB Table 5 Supply	Other Aquifer	5	5	5	5	5	5
					Livestock Local Supply	32	32	32	32	32	32
				Current Supply Less Demand		*11*	*11*	*11*	*11*	*11*	*11*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		11	11	11	11	11	11
Livestock	31005199	Rockwall	Trinity	TWDB Table 2 Demands		110	110	110	110	110	110
				TWDB Table 5 Supply	Other Aquifer	19	19	19	19	19	19
					Livestock Local Supply	136	136	136	136	136	136

				Current Supply Less Demand		*45*	*45*	*45*	*45*	*45*	*45*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		45	45	45	45	45	45
Manufacturing	31001199	Rockwall	Sabine	TWDB Table 2 Demands		0	0	0	0	0	0
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	3	0	0	0	0	0
					Lake Texoma (NTMWD)	2	0	0	0	0	0
					Chapman (NTMWD)	1	0	0	0	0	0
				Current Supply Less Demand		*6*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		6	0	0	0	0	0
Manufacturing	31001199	Rockwall	Trinity	TWDB Table 2 Demands		5	6	6	6	6	6
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	37	3	2	2	2	1
					Lake Texoma (NTMWD)	20	1	1	1	1	1
					Chapman (NTMWD)	14	1	1	1	1	1
				Current Supply Less Demand		*66*	*-1*	*-2*	*-2*	*-2*	*-3*
				TWDB Table 12 Strategies	NTMWD	0	2	4	3	2	4
				Total Supply Less Demand		66	1	2	1	0	1
Mining	31003199	Rockwall	Sabine	TWDB Table 2 Demands		0	0	0	0	0	0
				TWDB Table 5 Supply	Other Local Supply	33	33	33	33	33	33
				Current Supply Less Demand		*33*	*33*	*33*	*33*	*33*	*33*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		33	33	33	33	33	33
Steam Electric Power	31002199	Rockwall	Trinity	TWDB Table 2 Demands		0	5,600	6,000	6,000	6,000	6,000
				TWDB Table 5 Supply	None	0	0	0	0	0	0
				Current Supply Less Demand		*0*	*-5,600*	*-6,000*	*-6,000*	*-6,000*	*-6,000*
				TWDB Table 12 Strategies	NTMWD Reuse	0	6,000	6,000	6,000	6,000	6,000
				Total Supply Less Demand		0	400	0	0	0	0

Tarrant County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Arlington	30037000	Tarrant	Trinity	Population		318,653	336,400	366,760	384,917	399,173	413,986
				TWDB Table 2 Demands		67,818	73,479	78,878	81,059	80,931	83,470
				TWDB Table 5 Supply	Lake Arlington	0	0	0	0	0	0
					TRWD CC/RC	71,421	69,945	76,195	73,594	68,922	67,234
				Current Supply Less Demand		*3,603*	*-3,534*	*-2,683*	*-7,465*	*-12,009*	*-16,236*

				TWDB Table 12 Strategies	TRWD	0	9,035	4,320	12,926	15,388	23,474
				Total Supply Less Demand		3,603	5,501	1,637	5,461	3,379	7,238
Azle	30046000	Tarrant	Trinity	Population		9,946	11,637	13,473	14,704	16,483	18,477
(Partial)				TWDB Table 2 Demands		1,504	1,929	2,369	2,652	2,862	3,042
				TWDB Table 5 Supply	TRWD West Fork	1,594	1,824	2,237	2,375	2,396	2,409
				Current Supply Less Demand		*90*	*-105*	*-132*	*-277*	*-466*	*-633*
				TWDB Table 12 Strategies	TRWD	0	268	213	480	597	916
				Total Supply Less Demand		90	163	81	203	131	283
Bedford	30067000	Tarrant	Trinity	Population		49,900	55,200	56,200	56,200	56,200	56,200
				TWDB Table 2 Demands		9,949	10,697	10,639	10,387	10,135	9,946
				TWDB Table 5 Supply	Trinity Aquifer	654	654	654	654	654	654
					TRWD CC/RC (TRA)	9,789	9,561	9,645	8,836	8,075	7,485
				Current Supply Less Demand		*494*	*-482*	*-340*	*-897*	*-1,406*	*-1,807*
				TWDB Table 12 Strategies	TRA	0	1,439	1,355	2,164	2,925	3,515
				Total Supply Less Demand		494	957	1,015	1,267	1,519	1,708
Benbrook	30075000	Tarrant	Trinity	Population		23,964	26,522	29,354	30,807	31,947	33,130
				TWDB Table 2 Demands		5,127	5,555	6,017	6,211	6,298	6,383
				TWDB Table 5 Supply	Trinity Aquifer	189	189	189	189	189	189
					TRWD Cedar Creek/Richland-Chambers System	5,200	5,108	5,630	5,467	5,203	4,989
					Lake Benbrook	4,671	3,391	2,958	2,484	2,024	1,617
				Current Supply Less Demand		*4,933*	*3,133*	*2,760*	*1,929*	*1,118*	*412*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		4,933	3,133	2,760	1,929	1,118	412
Blue Mound	30093000	Tarrant	Trinity	Population		2,488	2,582	2,909	3,040	3,152	3,264
				TWDB Table 2 Demands		320	321	349	351	350	347
				TWDB Table 5 Supply	TRWD CC/RC (thru Tecon)	337	306	337	319	298	280
				Current Supply Less Demand		*17*	*-15*	*-12*	*-32*	*-52*	*-67*
				TWDB Table 12 Strategies	TRWD (thru Tecon)	0	38	19	55	67	97
				Total Supply Less Demand		17	23	7	23	15	30
Briar	30110000	Tarrant	Trinity	Population		3,559	4,509	5,445	5,713	6,139	6,597
(Partial)				TWDB Table 2 Demands		514	636	756	774	818	857
				TWDB Table 5 Supply	Community WSC (TRWD West Fork less Brigdeport System)	545	601	714	693	685	679
				Current Supply Less Demand		*31*	*-35*	*-42*	*-81*	*-133*	*-178*
				TWDB Table 12 Strategies	Community WSC (TRWD)	0	90	67	141	169	258
				Total Supply Less Demand		31	55	25	60	36	80

Burleson	30131000	Tarrant	Trinity	Population		2,415	2,638	2,957	3,105	3,232	3,364
(Partial)				TWDB Table 2 Demands		354	411	487	522	525	528
				TWDB Table 5 Supply	TRWD CC/RC (FW)	373	391	0	0	0	0
				Current Supply Less Demand		*19*	*-20*	*-487*	*-522*	*-525*	*-528*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	51	786	906	673	764
				Total Supply Less Demand		19	31	299	384	148	236
Colleyville	30186000	Tarrant	Trinity	Population		20,500	30,730	39,665	41,624	43,169	44,771
				TWDB Table 2 Demands		6,177	9,087	11,463	11,796	11,944	12,136
				TWDB Table 5 Supply	Trinity Aquifer	198	198	198	198	198	198
					TRWD CC/RC (TRA)	6,297	8,461	10,882	10,530	10,003	9,616
				Current Supply Less Demand		*318*	*-428*	*-383*	*-1,068*	*-1,743*	*-2,322*
				TWDB Table 12 Strategies	TRA	0	7,039	8,118	8,470	8,997	9,384
				Total Supply Less Demand		318	6,611	7,735	7,402	7,254	7,062
Crowley	30218000	Tarrant	Trinity	Population		8,000	8,940	10,098	11,037	12,945	15,182
				TWDB Table 2 Demands		1,031	1,192	1,470	1,681	1,885	2,126
				TWDB Table 5 Supply	Trinity Aquifer	83	83	83	83	83	83
					TRWD CC/RC (FW)	1,000	1,054	0	0	0	0
				Current Supply Less Demand		*52*	*-55*	*-1,387*	*-1,598*	*-1,802*	*-2,043*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	141	2,240	2,775	2,312	2,958
				Total Supply Less Demand		52	86	853	1,177	510	915
Dalworthington Gardens	30228000	Tarrant	Trinity	Population		2,265	3,260	3,749	4,067	4,533	5,052
				TWDB Table 2 Demands		622	876	987	1,048	1,142	1,251
				TWDB Table 5 Supply	Trinity Aquifer	74	74	74	74	74	74
					TRWD CC/RC (FW)	578	762	0	0	0	0
				Current Supply Less Demand		*30*	*-40*	*-913*	*-974*	*-1,068*	*-1,177*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	102	1,474	1,691	1,370	1,704
				Total Supply Less Demand		30	62	561	717	302	527
Edgecliff Village	30267000	Tarrant	Trinity	Population		3,000	3,000	3,000	3,000	3,000	3,000
				TWDB Table 2 Demands		575	565	551	541	528	518
				TWDB Table 5 Supply	TRWD CC/RC (FW)	606	537	0	0	0	0
				Current Supply Less Demand		*31*	*-28*	*-551*	*-541*	*-528*	*-518*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	72	890	939	677	750
				Total Supply Less Demand		31	44	339	398	149	232
Euless	30285000	Tarrant	Trinity	Population		47,000	51,773	58,848	58,848	58,848	58,848
				TWDB Table 2 Demands		8,423	9,105	10,151	9,888	9,690	9,492

				TWDB Table 5 Supply	Trinity Aquifer	550	550	550	550	550	550
					TRWD CC/RC (TRA)	8,291	7,192	9,274	8,478	7,784	7,203
				Current Supply Less Demand		*418*	*-1,363*	*-327*	*-860*	*-1,356*	*-1,739*
				TWDB Table 12 Strategies	TRWD (thru TRA)	0	5,663	7,100	8,323	9,650	11,114
				Total Supply Less Demand		418	4,300	6,773	7,463	8,294	9,375
Everman	30287000	Tarrant	Trinity	Population		6,500	6,500	6,500	6,500	6,500	6,500
				TWDB Table 2 Demands		837	808	779	750	721	692
				TWDB Table 5 Supply	Trinity Aquifer	148	148	148	148	148	148
					TRWD CC/RC (FW)	726	627	0	0	0	0
				Current Supply Less Demand		*37*	*-33*	*-631*	*-602*	*-573*	*-544*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	84	1,019	1,045	735	788
				Total Supply Less Demand		37	51	388	443	162	244
Forest Hill	30303000	Tarrant	Trinity	Population		12,350	12,717	13,580	13,621	13,662	13,811
				TWDB Table 2 Demands		1,591	1,638	1,825	1,907	1,836	1,779
				TWDB Table 5 Supply	TRWD CC/RC (FW)	1,677	1,557	0	0	0	0
				Current Supply Less Demand		*86*	*-81*	*-1,825*	*-1,907*	*-1,836*	*-1,779*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	207	2,947	3,311	2,355	2,575
				Total Supply Less Demand		86	126	1,122	1,404	519	796
Fort Worth	30311000	Tarrant	Trinity	Population		496,622	532,717	580,375	596,112	632,480	671,067
				TWDB Table 2 Demands		127,946	134,262	143,673	144,230	150,195	155,600
				TWDB Table 5 Supply	TRWD West Fork	44,789	47,516	60,291	56,272	52,856	51,602
					TRWD CC/RC	82,288	72,756	70,691	67,806	67,913	66,301
					TRWD Bridgeport Local	7,645	7,484	6,558	6,406	6,697	7,186
					TRWD Lake Benbrook	646	432	347	282	226	178
				Current Supply Less Demand		*7,422*	*-6,074*	*-5,786*	*-13,464*	*-22,503*	*-30,333*
				TWDB Table 12 Strategies	TRWD	0	15,539	9,344	23,379	28,867	43,914
				Total Supply Less Demand		7,422	9,465	3,558	9,915	6,364	13,581
Grand Prairie	30353000	Tarrant	Trinity	Population		26,212	37,990	50,934	53,453	55,432	57,485
(Partial)				TWDB Table 2 Demands		4,698	6,596	9,129	8,981	9,003	9,015
				TWDB Table 5 Supply	Trinity Aquifer	542	542	542	542	542	542
					Elm Fork/Lake Grapevine System (DWU)	3,025	4,360	0	0	0	0
					TRWD CC/RC (FW)	591	533	0	0	0	0
				Current Supply Less Demand		*-540*	*-1,161*	*-8,587*	*-8,439*	*-8,461*	*-8,473*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	609	1,957	11,125	9,218	9,098	9,491
					FW (thru TRA)	0	28	561	561	561	561
				Total Supply Less Demand		69	824	3,099	1,340	1,198	1,579

Grapevine	30360000	Tarrant	Trinity	Population		39,434	48,611	54,530	57,223	59,340	61,535
(Partial)				TWDB Table 2 Demands		8,437	10,182	11,178	11,538	11,699	11,856
				TWDB Table 5 Supply	Lake Grapevine (Grapevine)	1,668	1,668	1,668	1,668	1,668	1,668
					TRWD CC/RC (TRA)	7,129	8,104	9,186	8,961	8,542	8,206
				Current Supply Less Demand		*360*	*-410*	*-324*	*-909*	*-1,489*	*-1,982*
				TWDB Table 12 Strategies	TRWD (thru TRA)	0	348	320	703	1,067	1,385
					DWU	0	1,997	1,995	1,994	1,991	1,990
					Direct Reuse	0	1,495	1,490	1,490	1,485	1,485
				Total Supply Less Demand		360	3,430	3,481	3,278	3,054	2,878
Haltom City	30375000	Tarrant	Trinity	Population		38,845	41,704	43,272	43,983	44,197	44,412
				TWDB Table 2 Demands		6,309	6,633	6,737	6,700	6,584	6,517
				TWDB Table 5 Supply	TRWD West Fork (FW)	6,688	6,272	0	0	0	0
				Current Supply Less Demand		*379*	*-361*	*-6,737*	*-6,700*	*-6,584*	*-6,517*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	924	10,876	11,628	8,440	9,440
				Total Supply Less Demand		379	563	4,139	4,928	1,856	2,923
Haslet	30384000	Tarrant	Trinity	Population		1,260	1,443	1,899	2,327	2,587	2,808
				TWDB Table 2 Demands		229	267	372	456	478	503
				TWDB Table 5 Supply	Trinity Aquifer	46	46	46	46	46	46
					TRWD West Fork (FW)	194	209	0	0	0	0
				Current Supply Less Demand		*11*	*-12*	*-326*	*-410*	*-432*	*-457*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	31	526	712	554	662
				Total Supply Less Demand		11	19	200	302	122	205
Hurst	30428000	Tarrant	Trinity	Population		36,985	38,799	40,939	40,258	40,691	41,129
				TWDB Table 2 Demands		6,794	6,997	7,200	6,944	6,882	6,818
				TWDB Table 5 Supply	Trinity Aquifer	303	303	303	303	303	303
					TRWD CC/RC (FW)	6,844	6,364	0	0	0	0
				Current Supply Less Demand		*353*	*-330*	*-6,897*	*-6,641*	*-6,579*	*-6,515*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	844	11,139	11,532	8,439	9,432
				Total Supply Less Demand		353	514	4,242	4,891	1,860	2,917
Keller	30461000	Tarrant	Trinity	Population		24,761	31,592	38,146	41,677	43,219	44,818
				TWDB Table 2 Demands		4,826	6,051	7,136	7,656	7,746	7,882
				TWDB Table 5 Supply	TRWD CC/RC (FW)	2,544	0	0	0	0	0
					TRWD West Fork (FW)	2,558	0	0	0	0	0
				Current Supply Less Demand		*276*	*-6,051*	*-7,136*	*-7,656*	*-7,746*	*-7,882*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	15,480	11,524	13,294	9,937	11,411
				Total Supply Less Demand		276	9,429	4,388	5,638	2,191	3,529

Kennedale	30465000	Tarrant	Trinity	Population		6,428	10,087	11,974	13,710	16,881	19,725
				TWDB Table 2 Demands		1,274	1,955	2,280	2,549	3,082	3,513
				TWDB Table 5 Supply	Trinity Aquifer	256	256	256	256	256	256
				Current Supply Less Demand		*-1,018*	*-1,699*	*-2,024*	*-2,293*	*-2,826*	*-3,257*
				TWDB Table 12 Strategies	Add New Well & Overdraft Trinity Aquifer	1,018	0	0	0	0	0
					TRWD (thru FW)	0	2,174	1,635	1,991	1,813	2,358
					TRWD (thru Arlington)	0	2,174	1,635	1,991	1,813	2,358
				Total Supply Less Demand		0	2,648	1,245	1,689	799	1,458
Lake Worth Village	30501000	Tarrant	Trinity	Population		4,896	5,126	5,517	5,556	5,762	5,976
				TWDB Table 2 Demands		718	798	908	934	936	937
				TWDB Table 5 Supply	Trinity Aquifer	112	112	112	112	112	112
					TRWD West Fork (FW)	642	649	0	0	0	0
				Current Supply Less Demand		*36*	*-37*	*-796*	*-822*	*-824*	*-825*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	95	1,286	1,427	1,057	1,194
				Total Supply Less Demand		36	58	490	605	233	369
Mansfield	30559000	Tarrant	Trinity	Population		25,181	32,396	43,903	52,745	69,857	86,968
(Partial)				TWDB Table 2 Demands		5,331	6,713	8,901	10,517	13,615	16,561
				TWDB Table 5 Supply	TRWD CC/RC	5,609	6,385	8,593	9,544	11,590	13,336
					TRWD CC/RC (Arlington)	5	5	5	5	4	4
				Current Supply Less Demand		*283*	*-323*	*-303*	*-968*	*-2,021*	*-3,221*
				TWDB Table 12 Strategies	TRWD	0	826	488	1,675	2,590	4,657
				Total Supply Less Demand		283	503	185	707	569	1,436
North Richland Hills	30642000	Tarrant	Trinity	Population		55,884	67,363	81,200	90,408	100,661	112,232
				TWDB Table 2 Demands		9,640	11,394	13,461	14,684	16,011	17,475
				TWDB Table 5 Supply	Trinity Aquifer	61	61	61	61	61	61
					TRWD CC/RC (FW)	5,335	5,384	0	0	0	0
					TRWD CC/RC (TRA)	5,322	5,397	6,187	5,969	5,703	5,573
				Current Supply Less Demand		*1,078*	*-552*	*-7,213*	*-8,654*	*-10,247*	*-11,841*
				TWDB Table 12 Strategies	Renew FW Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	714	11,466	14,452	12,379	16,090
					TRWD (thru TRA)	0	273	113	331	597	727
				Total Supply Less Demand		1,078	435	4,366	6,129	2,729	4,976
Pantego	30677000	Tarrant	Trinity	Population		2,471	2,534	2,668	2,681	2,694	2,751
				TWDB Table 2 Demands		581	585	604	592	582	582
				TWDB Table 5 Supply	Trinity Aquifer	181	181	181	181	181	181
				Current Supply Less Demand		*-400*	*-404*	*-423*	*-411*	*-401*	*-401*
				TWDB Table 12 Strategies	Overdraft Trinity Aquifer	400	0	0	0	0	0
					TRWD (thru FW)	0	517	342	357	257	291
					TRWD (thru Arlington)	0	517	342	357	257	291

				Total Supply Less Demand		0	630	260	303	113	180
Pelican Bay	30688000	Tarrant	Trinity	Population		1,562	1,912	2,278	2,550	2,920	3,344
				TWDB Table 2 Demands		201	246	306	357	392	431
				TWDB Table 5 Supply	Trinity Aquifer	34	34	34	34	34	34
				Current Supply Less Demand		*-167*	*-212*	*-272*	*-323*	*-358*	*-397*
				TWDB Table 12 Strategies	Add New Well & Overdraft Trinity Aquifer	167	0	0	0	0	0
					Reallocate groundwater (new well)	0	215	240	240	240	240
					Reallocate groundwater (existing wells)	0	0	35	85	120	160
				Total Supply Less Demand		0	3	3	2	2	3
Richland Hills	30748000	Tarrant	Trinity	Population		8,886	10,379	12,109	13,618	16,497	19,985
				TWDB Table 2 Demands		1,334	1,523	1,750	1,922	2,273	2,709
				TWDB Table 5 Supply	Trinity Aquifer	199	199	199	199	199	199
					TRWD CC/RC (FW)	1,197	1,259	0	0	0	0
				Current Supply Less Demand		*62*	*-65*	*-1,551*	*-1,723*	*-2,074*	*-2,510*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	166	2,505	2,992	2,661	3,634
				Total Supply Less Demand		62	101	954	1,269	587	1,124
River Oaks	30756000	Tarrant	Trinity	Population		6,838	6,838	6,838	6,838	6,838	6,838
				TWDB Table 2 Demands		1,111	1,049	881	881	881	881
				TWDB Table 5 Supply	TRWD West Fork	1,178	992	832	789	737	698
				Current Supply Less Demand		*67*	*-57*	*-49*	*-92*	*-144*	*-183*
				TWDB Table 12 Strategies	TRWD	0	146	79	160	185	266
				Total Supply Less Demand		67	89	30	68	41	83
Saginaw	30785000	Tarrant	Trinity	Population		12,172	13,922	15,878	17,084	18,915	20,942
				TWDB Table 2 Demands		2,059	2,495	2,970	3,062	3,284	3,519
				TWDB Table 5 Supply	TRWD West Fork (FW)	2,183	2,359	0	0	0	0
				Current Supply Less Demand		*124*	*-136*	*-2,970*	*-3,062*	*-3,284*	*-3,519*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	348	4,796	5,317	4,213	5,095
				Total Supply Less Demand		124	212	1,826	2,255	929	1,576
Sansom Park Village	30802000	Tarrant	Trinity	Population		4,114	4,181	4,192	4,192	4,192	4,192
				TWDB Table 2 Demands		558	557	545	535	521	512
				TWDB Table 5 Supply	Trinity Aquifer	33	33	33	33	33	33
					TRWD West Fork (FW)	557	496	0	0	0	0
				Current Supply Less Demand		*32*	*-28*	*-512*	*-502*	*-488*	*-479*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	72	827	872	626	693
				Total Supply Less Demand		32	44	315	370	138	214

Southlake	30846000	Tarrant	Trinity	Population		21,481	26,305	32,212	39,445	48,304	59,151
(Partial)				TWDB Table 2 Demands		6,209	7,459	8,932	10,722	12,827	15,383
				TWDB Table 5 Supply	TRWD West Fork (FW)	6,582	0	0	0	0	0
				Current Supply Less Demand		*373*	*-7,459*	*-8,932*	*-10,722*	*-12,827*	*-15,383*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	19,082	14,425	18,618	16,454	22,270
				Total Supply Less Demand		373	11,623	5,493	7,896	3,627	6,887
Watauga	30942000	Tarrant	Trinity	Population		22,233	24,274	26,157	27,969	29,906	29,906
				TWDB Table 2 Demands		3,835	4,106	4,336	4,543	4,757	4,656
				TWDB Table 5 Supply	TRWD CC/RC (FW)	4,043	3,904	0	0	0	0
				Current Supply Less Demand		*208*	*-202*	*-4,336*	*-4,543*	*-4,757*	*-4,656*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	517	7,003	7,889	6,102	6,741
				Total Supply Less Demand		208	315	2,667	3,346	1,345	2,085
Westworth Village	30959000	Tarrant	Trinity	Population		2,518	2,600	2,600	2,600	2,600	2,600
				TWDB Table 2 Demands		324	323	312	300	288	277
				TWDB Table 5 Supply	TRWD West Fork (FW)	343	305	0	0	0	0
				Current Supply Less Demand		*19*	*-18*	*-312*	*-300*	*-288*	*-277*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	46	504	521	369	401
				Total Supply Less Demand		19	28	192	221	81	124
White Settlement	30964000	Tarrant	Trinity	Population		15,950	15,950	15,950	15,950	15,950	15,950
				TWDB Table 2 Demands		2,287	2,233	2,198	2,144	2,108	2,055
				TWDB Table 5 Supply	Trinity Aquifer	205	205	205	205	205	205
					TRWD West Fork (FW)	2,207	1,918	0	0	0	0
				Current Supply Less Demand		*125*	*-110*	*-1,993*	*-1,939*	*-1,903*	*-1,850*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	281	3,219	3,367	2,441	2,678
				Total Supply Less Demand		125	171	1,226	1,428	538	828
County-Other	30996220	Tarrant	Trinity	Population		50,486	81,087	112,785	147,813	232,287	209,614
				TWDB Table 2 Demands		8,652	12,807	16,803	21,524	33,045	30,054
				TWDB Table 5 Supply	Trinity Aquifer	95	95	95	95	95	95
					Woodbine Aquifer	766	766	766	766	766	766
					Other Aquifer	207	207	207	207	207	207
					TRWD CC/RC	627	640	858	971	1,367	1,058
					TRWD CC/RC (FW)	1,172	2,641	0	0	0	0
					TRWD CC/RC (TRA)	1,346	1,615	2,172	2,460	3,308	2,692
					TRWD West Fork	1,893	1,907	2,517	2,875	4,029	3,118

					TRWD West Fork (FW)	1,179	2,627	0	0	0	0
					Lake Grapevine (Grapevine)	1	1	1	1	1	1
					TRWD Lake Benbrook	1,515	1,012	813	660	530	418
					Reuse	2,240	2,240	2,240	2,240	2,240	2,240
					Reuse	100	100	100	100	100	100
				Current Supply Less Demand		*2,489*	*1,044*	*-7,034*	*-11,149*	*-20,402*	*-19,359*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	0	-95	-95	-95	-95	-95
					TRA Reuse (Denton Creek Plant)	0	1,000	2,000	2,500	2,500	2,500
					Renew FW Contract	0	0	0	0	0	0
					TRWD (thru Fort Worth)	0	0	8,130	15,018	22,965	24,407
				Total Supply Less Demand		2,489	1,949	3,001	6,274	4,968	7,453
Irrigation	31004220	Tarrant	Trinity	TWDB Table 2 Demands		111	111	111	111	111	111
				TWDB Table 5 Supply	Trinity Aquifer	15	15	15	15	15	15
					Irrigation Local Supply	5,326	4,386	4,386	4,386	4,386	4,386
				Current Supply Less Demand		*5,230*	*4,290*	*4,290*	*4,290*	*4,290*	*4,290*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		5,230	4,290	4,290	4,290	4,290	4,290
Livestock	31005220	Tarrant	Trinity	TWDB Table 2 Demands		852	852	852	852	852	852
				TWDB Table 5 Supply	Trinity Aquifer	414	414	414	414	414	414
					Livestock Local Supply	438	438	438	438	438	438
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Manufacturing	31001220	Tarrant	Trinity	TWDB Table 2 Demands		62,951	72,991	80,336	88,560	97,997	110,131
				TWDB Table 5 Supply	Trinity Aquifer	396	396	396	396	396	396
					TRWD West Fork	4,416	6,066	8,751	10,250	10,733	11,616
					TRWD West Fork (FW)	2,272	3,285	3,513	4,521	5,197	6,031
					Lake Arlington	0	0	0	0	0	0
					TRWD Lake Benbrook	1	1	1	1	1	1
					TRWD CC/RC	13,161	18,319	26,851	31,168	32,762	35,448
					TRWD CC/RC (FW)	5,265	7,716	8,386	10,692	12,339	14,314
					TRWD CC/RC (TRA)	251	339	461	516	519	542
					Reuse (Lake Worth)	40,000	35,000	30,000	25,000	25,000	25,000
				Current Supply Less Demand		*2,811*	*-1,869*	*-1,977*	*-6,016*	*-11,050*	*-16,783*
				TWDB Table 12 Strategies	Decrease Use of Trinity Aquifer	0	-125	-185	-235	-270	-315
					TRWD	0	3,300	2,377	7,628	10,108	16,980
					Renew FW Contract	0	0	0	0	0	0

					TRWD (thru Fort Worth)	0	1,479	811	2,796	4,056	7,297
				Total Supply Less Demand		2,811	2,785	1,026	4,173	2,844	7,179
Mining	31003220	Tarrant	Trinity	TWDB Table 2 Demands		96	94	96	99	102	105
				TWDB Table 5 Supply	Other Local Supply	103	103	103	103	103	105
					TRWD West Fork	102	89	91	89	85	83
				Current Supply Less Demand		*109*	*98*	*98*	*93*	*86*	*83*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		109	98	98	93	86	83
Steam Electric Power	31002220	Tarrant	Trinity	TWDB Table 2 Demands		7,000	8,000	10,000	10,000	11,800	11,800
				TWDB Table 5 Supply	Trinity Aquifer	1	1	1	1	1	1
					Lake Arlington	0	0	0	0	0	0
					TRWD CC/RC	4,939	5,102	6,472	6,083	6,733	6,368
					TRWD West Fork	2,449	2,496	3,116	2,956	3,259	3,084
				Current Supply Less Demand		*389*	*-401*	*-411*	*-960*	*-1,807*	*-2,347*
				TWDB Table 12 Strategies	Fort Worth Reuse	0	500	500	1,100	2,000	2,600
				Total Supply Less Demand		389	99	89	140	193	253

Wise County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Alvord	30019000	Wise	Trinity	Population		1,089	1,131	1,154	1,175	1,217	1,292
				TWDB Table 2 Demands		151	148	149	151	157	166
				TWDB Table 5 Supply	Trinity Aquifer	137	137	137	115	115	115
				Current Supply Less Demand		*-14*	*-11*	*-12*	*-36*	*-42*	*-51*
				TWDB Table 12 Strategies	Add New Well & Overdraft Trinity Aquifer	14	0	0	0	0	0
					Reallocate groundwater	0	20	20	40	50	80
				Total Supply Less Demand		0	9	8	4	8	29
Aurora	30044000	Wise	Trinity	Population		885	931	943	973	1,011	1,049
				TWDB Table 2 Demands		124	141	158	163	158	159
				TWDB Table 5 Supply	Other Aquifer	92	92	92	77	77	77
				Current Supply Less Demand		*-32*	*-49*	*-66*	*-86*	*-81*	*-82*
				TWDB Table 12 Strategies	Decrease Other Aquifer Use	0	-60	-77	-77	-77	-77
					Add New Well & Overdraft Other Aquifer	32	0	0	0	0	0
					Walnut Creek SUD (TRWD)	0	278	230	283	202	231
				Total Supply Less Demand		0	169	87	120	44	72

Boyd	30103000	Wise	Trinity	Population		1,296	1,749	1,968	2,188	2,236	2,285
				TWDB Table 2 Demands		182	264	331	368	351	346
				TWDB Table 5 Supply	Trinity Aquifer	124	124	124	104	104	104
				Current Supply Less Demand		*-58*	*-140*	*-207*	*-264*	*-247*	*-242*
				TWDB Table 12 Strategies	Decrease Trinity Aquifer Use	0	-83	-104	-104	-104	-104
					Overdraft Trinity Aquifer	58	0	0	0	0	0
					Walnut Creek SUD (TRWD) (new customer)	0	571	500	637	449	500
				Total Supply Less Demand		0	348	189	269	98	154
Briar	30110000	Wise	Trinity	Population		1,029	1,176	1,309	1,440	1,462	1,466
(Partial)				TWDB Table 2 Demands		149	166	182	195	195	190
				TWDB Table 5 Supply	Community WSC (TRWD West Fork less Brigdeport System)	158	157	172	175	163	150
				Current Supply Less Demand		*9*	*-9*	*-10*	*-20*	*-32*	*-40*
				TWDB Table 12 Strategies	Community WSC (TRWD)	0	23	16	35	41	58
				Total Supply Less Demand		9	14	6	15	9	18
Bridgeport	30113000	Wise	Trinity	Population		4,173	4,778	5,383	5,989	6,594	7,200
				TWDB Table 2 Demands		729	781	905	1,006	1,108	1,210
				TWDB Table 5 Supply	TRWD Bridgeport Local	795	740	865	904	930	961
				Current Supply Less Demand		*66*	*-41*	*-40*	*-102*	*-178*	*-249*
				TWDB Table 12 Strategies	TRWD	0	105	64	177	228	360
				Total Supply Less Demand		66	64	24	75	50	111
Chico	30163000	Wise	Trinity	Population		995	1,027	1,040	1,053	1,065	1,074
				TWDB Table 2 Demands		159	165	163	165	167	168
				TWDB Table 5 Supply	Trinity Aquifer	137	137	137	115	115	115
					West Wise WSC (TRWD Bridgeport Local)	24	27	6	27	25	24
				Current Supply Less Demand		*2*	*-1*	*-20*	*-23*	*-27*	*-29*
				TWDB Table 12 Strategies	West Wise WSC (TRWD)	0	3	32	41	34	41
				Total Supply Less Demand		2	2	12	18	7	12
Decatur	30235000	Wise	Trinity	Population		4,982	5,761	6,453	7,139	7,278	7,420
				TWDB Table 2 Demands		1,049	1,149	1,222	1,327	1,329	1,346
				TWDB Table 5 Supply	Wise County WSD (TRWD Bridgport Local)	1,147	1,090	1,169	1,194	1,117	1,069
				Current Supply Less Demand		*98*	*-59*	*-53*	*-133*	*-212*	*-277*
				TWDB Table 12 Strategies	Wise County WSD (TRWD)	0	151	85	230	272	400
				Total Supply Less Demand		98	92	32	97	60	123

Newark	30635000	Wise	Trinity	Population		970	1,058	1,133	1,213	1,346	1,509
				TWDB Table 2 Demands		136	172	197	204	219	237
				TWDB Table 5 Supply	Trinity Aquifer	92	92	92	77	77	77
				Current Supply Less Demand		*-44*	*-80*	*-105*	*-127*	*-142*	*-160*
				TWDB Table 12 Strategies	Decrease Trinity Aquifer Use	0	-60	-77	-77	-77	-77
					Add New Well & Overdraft Other Aquifer	44	0	0	0	0	0
					Walnut Creek SUD (TRWD)	0	358	293	354	280	343
				Total Supply Less Demand		0	218	111	150	61	106
Rhome	30745000	Wise	Trinity	Population		795	858	908	983	1,077	1,172
				TWDB Table 2 Demands		111	144	153	165	181	197
				TWDB Table 5 Supply	Trinity Aquifer	78	78	78	65	65	65
				Current Supply Less Demand		*-33*	*-66*	*-75*	*-100*	*-116*	*-132*
				TWDB Table 12 Strategies	Decrease Trinity Aquifer Use	0	-52	-65	-65	-65	-65
					Overdraft Other Aquifer	33	0	0	0	0	0
					Walnut Creek SUD (TRWD) (new customer)	0	301	225	285	232	285
				Total Supply Less Demand		0	183	85	120	51	88
County-Other	30996249	Wise	Trinity	Population		28,586	36,205	44,072	51,488	57,714	60,535
				TWDB Table 2 Demands		3,875	5,272	6,911	8,074	9,051	9,493
				TWDB Table 5 Supply	Trinity Aquifer	2,771	2,771	2,771	2,322	2,322	2,322
					TRWD Bridgeport Local	1,521	1,799	2,379	2,612	2,736	2,714
				Current Supply Less Demand		*417*	*-702*	*-1,761*	*-3,140*	*-3,993*	*-4,457*
				TWDB Table 12 Strategies	TRWD	0	1,794	2,835	5,438	5,116	6,443
					UTRWD (Lake Chapman)	0	221	109	146	156	200
					UTRWD (Reuse)	0	70	108	146	155	199
				Total Supply Less Demand		417	1,383	1,291	2,590	1,434	2,385
Irrigation	31004249	Wise	Trinity	TWDB Table 2 Demands		341	341	341	341	341	341
				TWDB Table 5 Supply	Trinity Aquifer	251	251	251	210	210	210
					Irrigation Local Supply	714	714	714	714	714	714
				Current Supply Less Demand		*624*	*624*	*624*	*583*	*583*	*583*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		624	624	624	583	583	583
Livestock	31005249	Wise	Trinity	TWDB Table 2 Demands		1,694	1,694	1,694	1,694	1,694	1,694
				TWDB Table 5 Supply	Trinity Aquifer	1,033	1,033	1,033	866	866	866
					Livestock Local Supply	1,117	1,117	1,117	1,117	1,117	1,117
				Current Supply Less Demand		*456*	*456*	*456*	*289*	*289*	*289*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0

				Total Supply Less Demand		456	456	456	289	289	289
Manufacturing	31001249	Wise	Trinity	TWDB Table 2 Demands		5,420	5,921	6,435	6,957	7,496	8,038
				TWDB Table 5 Supply	Other Aquifer	14	14	14	12	12	12
					Other Local Supply	8,000	8,000	8,000	8,000	8,000	8,000
					TRWD Bridgeport Local	413	392	430	438	441	447
				Current Supply Less Demand		*3,007*	*2,485*	*2,009*	*1,493*	*957*	*421*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		3,007	2,485	2,009	1,493	957	421
Mining	31003249	Wise	Trinity	TWDB Table 2 Demands		4,086	3,902	3,966	4,057	4,172	4,297
				TWDB Table 5 Supply	Trinity Aquifer	239	239	239	200	200	200
					TRWD Bridgeport Local	2,796	2,650	2,674	2,513	2,348	2,221
					Other Local Supply	8,084	8,084	8,084	8,084	8,084	8,084
				Current Supply Less Demand		*7,033*	*7,071*	*7,031*	*6,740*	*6,460*	*6,208*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		7,033	7,071	7,031	6,740	6,460	6,208
Steam Electric Power	31002249	Wise	Trinity	TWDB Table 2 Demands		0	11,200	11,200	11,200	11,200	11,200
				TWDB Table 5 Supply	none allocated	0	0	0	0	0	0
				Current Supply Less Demand		*0*	*-11,200*	*-11,200*	*-11,200*	*-11,200*	*-11,200*
				TWDB Table 12 Strategies	Contract With Duke	0	4,256	4,256	0	0	0
					Renew Contract with Duke	0	0	0	4,256	4,256	4,256
					Contract with Tractebel	0	3,548	3,548	0	0	0
					Renew Contract with Tractebel	0	0	0	3,548	3,548	3,548
					TRWD	0	3,396	3,396	3,396	3,396	3,396
				Total Supply Less Demand		0	0	0	0	0	0

Hill County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
County-Other	30996109	Hill	Brazos	TWDB Table 2 Demands		300	300	300	300	300	300
Region G				TWDB Table 5 Supply	Corsicana (TRA) Navarro Mills Reservoir	300	300	300	300	300	300
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0

Johnson County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050

Burleson	30131000	Johnson	Trinity	Population		19,083	24,039	29,079	34,307	38,752	43,773
Region G				TWDB Table 2 Demands		2,287	2,639	2,671	3,113	3,473	3,874
				TWDB Table 5 Supply	TRWD CC/RC thru FW	2,287	2,639	2,671	3,113	3,473	3,874
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Mansfield	30559000	Johnson	Trinity	Population		852	954	1,247	1,371	1,709	2,130
Region G				TWDB Table 2 Demands		136	142	158	172	212	262
				TWDB Table 5 Supply	TRWD CC/RC	136	142	158	172	212	262
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortage	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0

TWDB Summary Table by Water User Group
Total for Cities Partially Located in More Than One County

WUG	WUG ID	County	Basin	TWDB Table	Source	2000	2010	2020	2030	2040	2050
Azle	30046000	Parker/Tarrant	Trinity	Population		11,790	13,816	15,871	17,346	19,394	21,684
				TWDB Table 2 Demands		1,783	2,290	2,791	3,128	3,367	3,570
				TWDB Table 5 Supply	TRWD West Fork	1,890	2,165	2,636	2,801	2,819	2,827
				Current Supply Less Demand		*107*	*-125*	*-155*	*-327*	*-548*	*-743*
				TWDB Table 12 Strategies	TRWD	0	319	250	567	703	1,075
				Total Supply Less Demand		107	194	95	240	155	332
Briar	30110000	Parker/Tarrant/ Wise	Trinity	Population		5,261	6,482	7,682	8,226	8,793	9,387
				TWDB Table 2 Demands		760	914	1,067	1,114	1,172	1,219
				TWDB Table 5 Supply	Community WSC (TRWD West Fork less Brigdeport System)	806	864	1,008	998	981	965
				Current Supply Less Demand		*46*	*-50*	*-59*	*-116*	*-191*	*-254*
				TWDB Table 12 Strategies	Community WSC (TRWD)	0	128	94	202	243	368
				Total Supply Less Demand		46	78	35	86	52	114
Carrollton	30147000	Dallas/Denton	Trinity	Population		104,592	116,670	125,603	130,062	130,062	130,062
				TWDB Table 2 Demands		23,432	26,137	28,138	28,409	27,681	26,224
				TWDB Table 5 Supply	Trinity Aquifer	139	139	139	129	129	129
					DWU Ray Hubbard	20,503	21,271	0	0	0	0
				Current Supply Less Demand		*-2,790*	*-4,727*	*-27,999*	*-28,280*	*-27,552*	*-26,095*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	3,148	7,969	36,274	30,889	29,625	29,234
				Total Supply Less Demand		358	3,242	8,275	2,609	2,073	3,139
Cedar Hill	30151000	Dallas/Ellis	Trinity	Population		30,668	40,704	51,843	66,329	83,829	87,548
				TWDB Table 2 Demands		5,840	9,119	11,615	14,489	17,841	18,143
				TWDB Table 5 Supply	Trinity Aquifer	318	318	318	318	318	318
					Woodbine Aquifer	72	72	72	72	72	72
					Lake Ray Hubbard (DWU)	1,298	1,873	0	0	0	0
					Tawakoni (DWU)	3,450	4,996	0	0	0	0
					Joe Pool Lake	0	0	0	0	0	0
				Current Supply Less Demand		*-702*	*-1,860*	*-11,225*	*-14,099*	*-17,451*	*-17,753*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	792	3,136	14,540	15,400	18,763	19,889
				Total Supply Less Demand		90	1,276	3,315	1,301	1,312	2,136
Combine	30193000	Dallas/Kaufman	Trinity	Population		2,079	2,446	2,826	3,183	3,429	3,730

				TWDB Table 2 Demands		338	429	495	539	562	590
				TWDB Table 5 Supply	Lake Ray Hubbard (DWU)	81	92	105	156	154	157
					Tawakoni (DWU)	214	246	331	418	416	426
				Current Supply Less Demand		*-43*	*-91*	*-59*	*35*	*8*	*-7*
				TWDB Table 12 Strategies	DWU (thru Combine WSC)	48	153	77	0	0	11
				Total Supply Less Demand		5	62	18	35	8	4
Dallas	30227000	Collin/Dallas/ Denton/Kaufman/ Rockwall	Trinity	Population		1,075,618	1,112,294	1,150,479	1,190,065	1,239,219	1,289,096
				TWDB Table 2 Demands		313,259	342,630	354,393	362,588	372,012	381,209
				TWDB Table 5 Supply	DWU Elm Fork	61,027	69,028	112,916	155,479	149,926	153,054
					Lake Ray Hubbard (DWU)	58,113	55,412	63,196	62,568	61,655	60,613
					Tawakoni (DWU)	154,398	147,816	169,083	167,879	166,106	163,882
				Current Supply Less Demand		*-39,721*	*-70,374*	*-9,198*	*23,338*	*5,675*	*-3,660*
				TWDB Table 12 Strategies	DWU	43,363	74,403	11,777	0	0	6,248
				Total Supply Less Demand		3,642	4,029	2,579	23,338	5,675	2,588
Frisco	30319000	Collin/Denton	Trinity	Population		33,103	63,106	101,629	154,962	216,114	274,271
				TWDB Table 2 Demands		10,012	20,853	33,122	49,818	68,515	85,733
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	5,919	9,148	11,695	15,017	17,943	20,268
					Lake Texoma (NTMWD)	3,271	5,119	6,620	8,615	10,433	11,946
					Chapman (NTMWD)	2,294	3,523	4,523	5,840	7,018	7,975
				Current Supply Less Demand		*1,472*	*-3,063*	*-10,284*	*-20,346*	*-33,121*	*-45,544*
				TWDB Table 12 Strategies	NTMWD	0	4,846	15,522	30,192	36,294	54,105
				Total Supply Less Demand		1,472	1,783	5,238	9,846	3,173	8,561
Garland	30334000	Collin/Dallas	Trinity	Population		205,478	223,275	234,969	234,965	234,959	234,952
				TWDB Table 2 Demands		37,057	37,015	37,111	37,111	37,109	37,109
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	21,906	16,239	13,103	11,185	9,719	8,773
					Lake Texoma (NTMWD)	12,109	9,087	7,420	6,417	5,650	5,173
					Chapman (NTMWD)	8,488	6,258	5,065	4,350	3,803	3,451
				Current Supply Less Demand		*5,446*	*-5,431*	*-11,523*	*-15,159*	*-17,937*	*-19,712*
				TWDB Table 12 Strategies	NTMWD	0	8,592	17,391	22,497	19,654	23,417
				Total Supply Less Demand		5,446	3,161	5,868	7,338	1,717	3,705
Glenn Heights	30344000	Dallas/Ellis	Trinity	Population		6,604	7,796	8,906	10,003	10,871	11,823
				TWDB Table 2 Demands		1,110	1,310	1,496	1,681	1,827	1,986
				TWDB Table 5 Supply	Woodbine Aquifer	322	322	322	322	322	322

					Lake Ray Hubbard (DWU)	187	212	250	0	0	0
					Tawakoni (DWU)	498	566	784	0	0	0
				Current Supply Less Demand		*-103*	*-210*	*-140*	*-1,359*	*-1,505*	*-1,664*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	117	354	181	1,486	1,620	1,864
				Total Supply Less Demand		14	144	41	127	115	200
Grand Prairie	30353000	Dallas/Ellis/Tarrant	Trinity	Population		116,877	135,894	150,487	156,552	160,736	164,291
				TWDB Table 2 Demands		20,948	23,594	26,971	26,304	26,107	25,765
				TWDB Table 5 Supply	Trinity Aquifer	2,891	2,891	2,891	2,890	2,890	2,890
					DWU Elm Fork	15,113	16,208	0	0	0	0
					TRWD CC/RC (FW)	591	533	0	0	0	0
					Joe Pool Lake (TRA)	168	168	168	153	148	144
				Current Supply Less Demand		*-2,185*	*-3,794*	*-23,912*	*-23,261*	*-23,069*	*-22,731*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU	2,465	6,396	30,981	25,408	24,805	25,464
				Total Supply Less Demand		280	2,630	7,630	2,708	2,297	3,294
Grapevine	30360000	Dallas/Tarrant	Trinity	Population		39,533	48,721	54,652	57,356	59,486	61,691
				TWDB Table 2 Demands		8,457	10,207	11,205	11,566	11,730	11,888
				TWDB Table 5 Supply	Lake Grapevine (Grapevine)	1,690	1,690	1,690	1,690	1,690	1,690
					TRWD CC/RC (TRA)	7,129	8,104	9,186	8,961	8,542	8,206
				Current Supply Less Demand		*362*	*-413*	*-329*	*-915*	*-1,498*	*-1,992*
				TWDB Table 12 Strategies	DWU (new customer)	0	2,000	2,000	2,000	2,000	2,000
					Direct Reuse	0	1,500	1,500	1,500	1,500	1,500
					TRWD (thru TRA)	0	6,040	5,009	5,226	5,677	6,010
				Total Supply Less Demand		362	9,127	8,180	7,811	7,679	7,518
Burleson	30131000	Johnson/Tarrant	Trinity	Population		21,498	26,677	32,036	37,412	41,984	47,137
				TWDB Table 2 Demands		2,641	3,050	3,158	3,635	3,998	4,402
				TWDB Table 5 Supply		2,660	3,030	2,671	3,113	3,473	3,874
				Current Supply Less Demand		*19*	*-20*	*-487*	*-522*	*-525*	*-528*
				TWDB Table 12 Strategies	Renew Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	51	786	906	673	764
				Total Supply Less Demand		19	31	299	384	148	236
Lewisville	30519000	Dallas/Denton	Trinity	Population		77,831	111,200	140,000	157,145	165,181	173,630
				TWDB Table 2 Demands		18,309	27,404	36,068	40,486	41,631	42,788
				TWDB Table 5 Supply	DWU Elm Fork	9,369	14,972	0	0	0	0
					DWU Elm Fork	6,588	6,123	0	0	0	0
				Current Supply Less Demand		*-2,352*	*-6,309*	*-36,068*	*-40,486*	*-41,631*	*-42,788*

				TWDB Table 12 Strategies	UTRWD (Lake Chapman)	0	0	4,954	2,704	2,524	2,368
					UTRWD (reuse)	0	0	4,712	2,570	2,400	2,252
					UTRWD (DWU)	0	0	0	7,397	8,828	10,765
					Renewal of DWU Contract	0	0	0	0	0	0
					DWU	2,482	6,537	28,476	28,478	28,530	28,624
				Total Supply Less Demand		130	228	2,074	663	651	1,221
Mabank	30554000	Henderson/ Kaufman	Trinity	Population		2,781	3,440	4,110	4,690	5,017	5,369
				TWDB Table 2 Demands		561	693	760	867	927	993
				TWDB Table 5 Supply	TRWD Cedar Creek/Richland-Chambers System	561	693	760	867	927	993
				Current Supply Less Demand		*0*	*0*	*0*	*0*	*0*	*0*
				TWDB Table 12 Strategies	No Shortages	0	0	0	0	0	0
				Total Supply Less Demand		0	0	0	0	0	0
Mansfield	30559000	Ellis/Tarrant	Trinity	Population		26,463	34,066	46,214	55,573	73,303	91,169
				TWDB Table 2 Demands		5,561	7,011	9,291	11,007	14,206	17,275
				TWDB Table 5 Supply	TRWD CC/RC	5,844	6,675	8,974	10,005	12,125	13,962
					TRWD CC/RC (Arlington)	5	5	5	5	4	4
				Current Supply Less Demand		*288*	*-331*	*-312*	*-997*	*-2,077*	*-3,309*
				TWDB Table 12 Strategies	TRWD	0	847	502	1,725	2,662	4,784
				Total Supply Less Demand		288	516	190	728	585	1,475
Ovilla	30663000	Dallas/Ellis	Trinity	Population		3,164	3,695	4,264	4,817	5,009	5,212
				TWDB Table 2 Demands		744	869	979	1,079	1,094	1,138
				TWDB Table 5 Supply	Lake Ray Hubbard (DWU thru Cedar Hill)	177	186	0	0	0	0
					Tawakoni (DWU thru Cedar Hill)	470	497	0	0	0	0
				Current Supply Less Demand		*-97*	*-186*	*-979*	*-1,079*	*-1,094*	*-1,138*
				TWDB Table 12 Strategies	Renewal of DWU Contract	0	0	0	0	0	0
					DWU (thru Cedar Hill)	109	313	1,270	1,178	1,176	1,275
				Total Supply Less Demand		12	127	291	99	82	137
Plano	30704000	Collin/Denton	Trinity	Population		234,057	276,078	276,100	276,130	276,152	276,175
				TWDB Table 2 Demands		67,904	84,115	81,957	80,420	79,807	79,814
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	40,143	36,903	28,937	24,242	20,901	18,869
					Lake Texoma (NTMWD)	22,190	20,650	16,382	13,907	12,153	11,122
					Chapman (NTMWD)	15,555	14,210	11,190	9,427	8,175	7,425

				Current Supply Less Demand		*9,984*	*-12,352*	*-25,448*	*-32,844*	*-38,578*	*-42,398*
				TWDB Table 12 Strategies	NTMWD	0	19,539	38,416	48,746	42,262	50,367
				Total Supply Less Demand		9,984	7,187	12,968	15,902	3,684	7,969
Richardson	30747000	Collin/Dallas	Trinity	Population		88,600	97,200	105,000	109,800	113,700	117,720
				TWDB Table 2 Demands		27,292	29,941	31,286	32,224	32,986	34,020
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	16,135	13,135	11,046	9,714	8,639	8,042
					Lake Texoma (NTMWD)	8,918	7,350	6,253	5,572	5,023	4,741
					Chapman (NTMWD)	6,252	5,059	4,272	3,777	3,379	3,164
				Current Supply Less Demand		*4,013*	*-4,397*	*-9,715*	*-13,161*	*-15,945*	*-18,073*
				TWDB Table 12 Strategies	NTMWD	0	6,957	14,663	19,532	17,471	21,470
				Total Supply Less Demand		4,013	2,560	4,948	6,371	1,526	3,397
Rowlett	30777000	Dallas/Rockwall	Trinity	Population		42,000	58,400	75,000	90,600	103,000	120,182
				TWDB Table 2 Demands		8,798	11,448	13,946	16,542	18,691	21,674
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	5,201	5,023	4,924	4,987	4,895	5,124
					Lake Texoma (NTMWD)	2,875	2,810	2,787	2,861	2,846	3,020
					Chapman (NTMWD)	2,016	1,934	1,905	1,940	1,915	2,016
				Current Supply Less Demand		*1,294*	*-1,681*	*-4,330*	*-6,754*	*-9,035*	*-11,514*
				TWDB Table 12 Strategies	NTMWD	0	2,659	6,535	10,024	9,901	13,679
				Total Supply Less Demand		1,294	978	2,205	3,270	866	2,165
Royse City	30779000	Collin/Rockwall	Trinity	Population		3,933	8,226	12,050	24,262	28,566	32,849
				TWDB Table 2 Demands		767	1,576	2,138	4,455	5,213	5,958
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	453	691	754	1,343	1,365	1,409
					Lake Texoma (NTMWD)	251	387	428	770	794	830
					Chapman (NTMWD)	176	266	292	522	534	554
				Current Supply Less Demand		*113*	*-232*	*-664*	*-1,820*	*-2,520*	*-3,165*
				TWDB Table 12 Strategies	NTMWD	0	367	1,002	2,701	2,762	3,760
				Total Supply Less Demand		113	135	338	881	242	595
Sachse	30784000	Collin/Dallas	Trinity	Population		9,369	16,420	19,300	22,070	24,538	26,262
				TWDB Table 2 Demands		1,763	3,384	3,827	4,351	4,783	5,119
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	1,042	1,485	1,352	1,312	1,253	1,210
					Lake Texoma (NTMWD)	576	831	765	753	728	713
					Chapman (NTMWD)	403	571	522	510	490	476
				Current Supply Less Demand		*258*	*-497*	*-1,188*	*-1,776*	*-2,312*	*-2,720*
				TWDB Table 12 Strategies	NTMWD	0	786	1,793	2,634	2,533	3,230
				Total Supply Less Demand		258	289	605	858	221	510

Southlake	30846000	Denton/Tarrant	Trinity	Population		22,106	27,414	33,553	41,185	50,519	62,016
				TWDB Table 2 Demands		6,390	7,773	9,304	11,195	13,415	16,128
				TWDB Table 5 Supply	TRWD West Fork (FW)	6,774	0	0	0	0	0
				Current Supply Less Demand		*384*	*-7,773*	*-9,304*	*-11,195*	*-13,415*	*-16,128*
				TWDB Table 12 Strategies	Renew FW Contract	0	0	0	0	0	0
					TRWD (thru FW)	0	19,886	15,024	19,438	17,207	23,346
				Total Supply Less Demand		384	12,113	5,720	8,243	3,792	7,218
Wylie	30991000	Collin/Rockwall	Trinity	Population		12,433	18,400	27,000	40,000	55,000	69,204
				TWDB Table 2 Demands		2,284	3,174	4,446	6,451	8,809	11,006
				TWDB Table 5 Supply	NTMWD Lake Lavon/Reuse	1,351	1,392	1,570	1,944	2,307	2,602
					Lake Texoma (NTMWD)	747	779	888	1,116	1,342	1,534
					Chapman (NTMWD)	524	537	608	756	902	1,024
				Current Supply Less Demand		*338*	*-466*	*-1,380*	*-2,635*	*-4,258*	*-5,846*
				TWDB Table 12 Strategies	NTMWD	0	737	2,083	3,910	4,666	6,945
				Total Supply Less Demand		338	271	703	1,275	408	1,099

TWDB Summary Table by Water User Group
Major Water Providers

Region C Major Water Providers									
MWP	**MWP ID**	**TWDB Table**	**Source**	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Tarrant Regional Water District	190	TWDB Table 3 Demands		352,437	437,991	494,475	539,095	587,480	619,632
		TWDBTable 6 Current Supply	Cedar Creek/Richland-Chambers System	267,392	267,962	268,445	268,742	268,779	268,809
			West Fork Less Bridgeport Local System	86,600	85,600	84,600	83,600	82,600	81,700
			Lake Benbrook	6,833	6,833	6,600	6,400	6,200	6,000
			Bridgeport Local	15,000	15,000	15,000	15,000	15,000	15,000
		Current Supply Less Demand		*23,388*	*-62,596*	*-119,830*	*-165,353*	*-214,901*	*-248,123*
		TWDB Table 13 Supplies	Parallel Pipeline to Cedar Creek/Richland-Chambers System	0	110,000	110,000	110,000	110,000	110,000
			Reuse from Trinity River	0	63,000	115,500	115,500	115,500	115,500
			Oklahoma Water	0	0	0	12,000	12,000	12,000
			Marvin Nichols I Reservoir	0	0	0	78,000	78,000	156,000
		Total Supply Less Demand		23,388	110,404	105,670	150,147	100,599	145,377
Fort Worth	298900	TWDB Table 3 Demands		186,865	209,427	227,842	245,980	271,723	288,794
		TWDBTable 6 Current Supply	Lake Benbrook	646	432	347	282	226	178
			Bridgeport Local	7,645	7,484	6,558	6,406	6,697	7,186
			Cedar Creek/Richland-Chambers System	116,526	108,124	81,748	81,611	83,725	84,489
			West Fork Less Bridgeport Local System	72,693	69,487	63,804	60,793	58,053	57,633
		Current Supply Less Demand		*10,645*	*-23,900*	*-75,385*	*-96,888*	*-123,022*	*-139,308*
		TWDB Table 13 Supplies	TRWD	0	62,973	121,408	169,040	160,245	205,013
			Reuse	0	500	500	1,100	2,000	2,600
		Total Supply Less Demand		10,645	39,573	46,523	73,252	39,223	68,305
Trinity River Authority	171	TWDB Table 3 Demands		92,435	109,413	157,639	174,612	191,801	199,229
		TWDBTable 6 Current Supply	Cedar Creek/Richland-Chambers System	38,425	40,669	47,807	45,750	43,934	41,317
			Joe Pool Lake	5,342	6,177	6,770	7,236	7,405	7,547
			Lake Bardwell	9,600	9,600	9,500	9,000	8,600	8,100
			Livingston (TXU-Fairfield)	16,000	16,000	16,000	16,000	16,000	16,000
			Navarro Mills	19,400	19,400	19,400	19,400	19,400	19,130
			Reuse	3,400	3,800	3,900	4,400	4,900	5,129

			Reuse	8,000	8,000	8,000	8,000	8,000	8,000
		Current Supply Less Demand		*7,732*	*-5,767*	*-46,262*	*-64,826*	*-83,562*	*-94,006*
		TWDB Table 13 Supplies	TRWD	0	34,722	38,791	41,776	45,021	47,910
			Las Colinas Reuse	0	7,000	7,000	7,000	7,000	7,000
			Joe Pool Reuse Phase I	0	0	7,000	14,000	14,000	14,000
			Joe Pool Reuse Phase II	0	0	0	0	7,000	14,000
			Mountain Creek Reuse	0	0	3,000	3,000	3,000	3,000
			Ellis County Reuse	0	20,000	20,000	20,000	20,000	20,000
			Denton County Reuse	0	2,000	4,000	5,000	5,000	5,000
			Tarrant County Reuse	0	1,000	2,000	2,500	2,500	2,500
			Grapevine Lake Reuse Phase I	0	0	4,000	8,000	8,000	8,000
			Grapevine Lake Reuse Phase II	0	0	0	0	8,000	8,000
		Total Supply Less Demand		7,732	58,955	39,529	36,450	35,959	35,404
North Texas Municipal Water District	160	TWDB Table 3 Demands		234,884	316,092	387,346	448,164	512,509	560,043
		TWDBTable 6 Current Supply	Lake Lavon/Reuse	139,825	138,125	136,525	134,725	132,925	131,125
			Lake Texoma	77,300	77,300	77,300	77,300	77,300	77,300
			Lake Chapman	53,600	53,200	52,800	52,400	52,000	51,600
		Current Supply Less Demand		*35,841*	*-47,467*	*-120,721*	*-183,739*	*-250,284*	*-300,018*
		TWDB Table 13 Supplies	Additional Reuse	*0*	17,936	26,904	35,872	35,872	35,872
			Additional Lake Texoma	0	10,000	10,000	10,000	10,000	10,000
			Oklahoma water	0	50,000	50,000	50,000	50,000	50,000
			Lower Bois d'Arc Creek Lake	0	0	98,000	98,000	98,000	98,000
			Marvin Nichols I Lake	0	0	0	81,650	81,650	163,300
		Total Supply Less Demand		35,841	30,469	64,183	91,783	25,238	57,154
Dallas	206800	TWDB Table 3 Demands		538,477	606,517	675,625	741,669	816,204	855,485
		TWDBTable 6 Current Supply	Elm Fork/Lake Grapevine System Subtotal	220,420	219,040	207,545	206,165	204,670	203,290
			Lake Ray Hubbard	68,425	67,965	67,505	67,160	66,700	66,240
			Lake Tawakoni	181,800	181,300	180,800	180,200	179,700	179,100
		Current Supply Less Demand		*-67,832*	*-138,212*	*-219,775*	*-288,144*	*-365,134*	*-406,855*
		TWDB Table 13 Supplies	Return flows above lakes	50,000	40,000	30,000	20,000	10,000	0
			Additional Temporary Overdraft	22,000	0	0	0	0	0
			Extend Elm Fork Term Permit	0	0	10,000	10,000	10,000	10,000
			Lake Fork Connection	0	120,000	120,000	120,000	120,000	120,000
			Lake Palestine Connection	0	0	111,500	110,900	110,200	109,600
			Marvin Nichols I	0	0	0	56,000	56,000	112,000
			Reuse	0	0	0	0	68,300	68,300

		Total Supply Less Demand		4,168	21,788	51,725	28,756	9,366	13,046

APPENDIX W

COMPARISON OF RESERVOIR ALTERNATIVES FOR REGION C

APPENDIX W

COMPARISON OF RESERVOIR ALTERNATIVES FOR REGION C

Need For Additional Supply In Region C And Timing Of Needs

Table W-1 and Figure W-1 show the total supply and the total projected demand for Region C. The total supply includes all sources of water available to Region C as developed in Texas Water Development Board Table 4 (Appendix I). However, some sources of supply may not be used in Region C between now and 2050. Examples include the following:

- Groundwater supplies from the Carrizo-Wilcox aquifer in Navarro and Freestone Counties. (These supplies are in excess of local needs and are far from other demand centers. The supplies which may not be used in Region C amount to about 100,000 acre-feet per year.)
- Reservoirs that are committed to local uses and are not projected to be fully utilized by 2050. Examples include Lake Texoma supplies in Grayson County, Corsicana's supplies from Richland-Chambers Lake, and several other reservoirs. (We will assume that 150,000 acre-feet per year is in this category.)
- Irrigation local supplies that exceed local demands. (We will assume that 10,000 acre-feet per year is in this category.)
- Mining local supplies that exceed local demands. (We will assume that 5,000 acre-feet per year is in this category.)
- Permitted imports that are not projected to be fully utilized by 2050. Examples include Terrell's water from Lake Tawakoni and Athens' water from Lake Athens. (We will assume that 10,000 acre-feet per year is in this category.)

Table W-2 and Figure W-2 show the comparison of total supply and total projected demand in Region C if you account for these supplies that may not be fully utilized by 2050. The table shows an overall shortage for the region of 175,000 acre-feet per year as of 2020, increasing to 836,000 acre-feet per year by 2050. Because it is impossible to allocate water supplies perfectly in the region and because it is not prudent to have no reserve for future growth, Region C will need to develop more than 836,000 acre-feet per year in new supplies by 2050.

Table W-1
Overall Comparison of Supply and Demand in Region C

Source	Water Supply Available in Acre-Feet Per Year						
	1996 Use	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Reservoirs in Region C	823,776	1,179,455	1,174,409	1,158,994	1,153,142	1,146,807	1,137,917
Groundwater	85,480	186,710	186,399	186,548	180,210	180,448	180,670
Local Irrigation	Not Avail.	33,300	31,632	31,632	31,632	31,632	31,632
Other Local Supply	18,826	19,534	19,534	19,534	19,534	19,534	19,536
Livestock Local Supply	18,061	18,843	18,843	18,843	18,843	18,843	18,843
Reuse	40,862	94,541	90,241	85,341	80,841	81,341	81,570
Imports	135,151	566,470	564,477	562,466	560,407	558,289	552,468
REGION C TOTAL SUPPLY	1,122,156	2,098,853	2,085,535	2,063,358	2,044,609	2,036,894	2,022,636
REGION C DEMAND		1,376,368	1,695,668	1,944,897	2,149,826	2,368,195	2,536,902
Surplus (Shortage)		722,485	389,867	118,461	**(105,217)**	**(331,301)**	**(514,266)**

Figure W-1
Comparison of Total Connected and Unconnected Supply with Demand for Region C

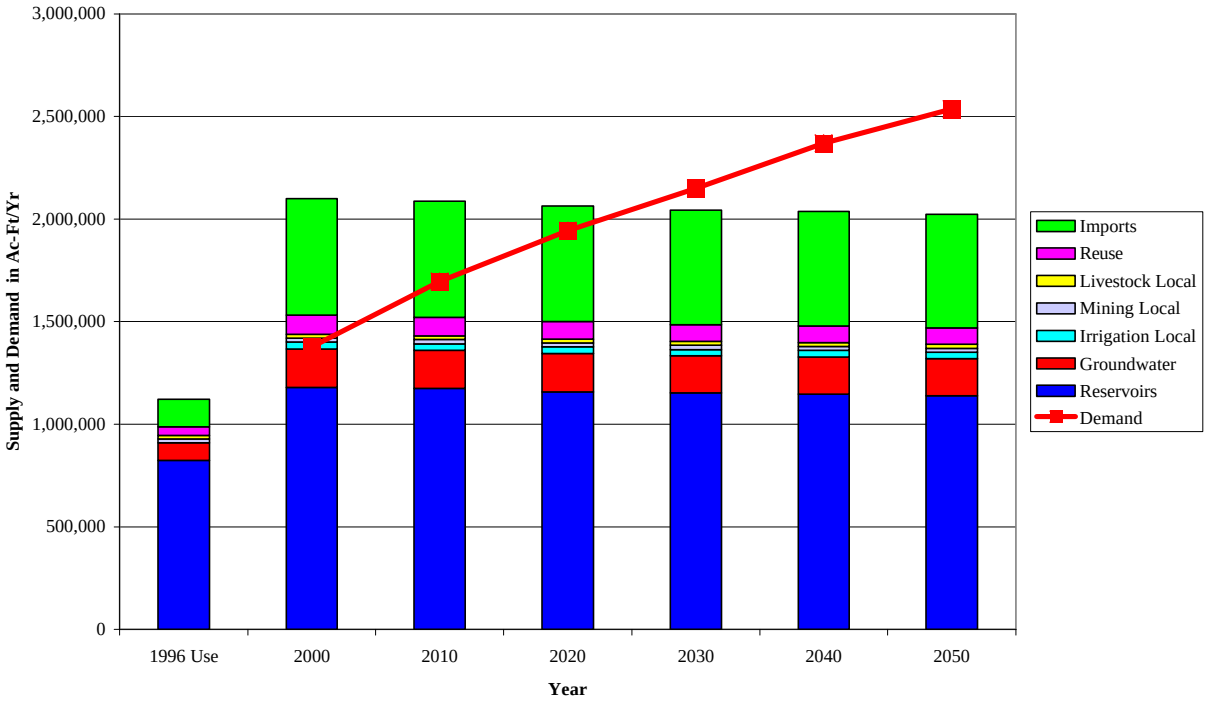
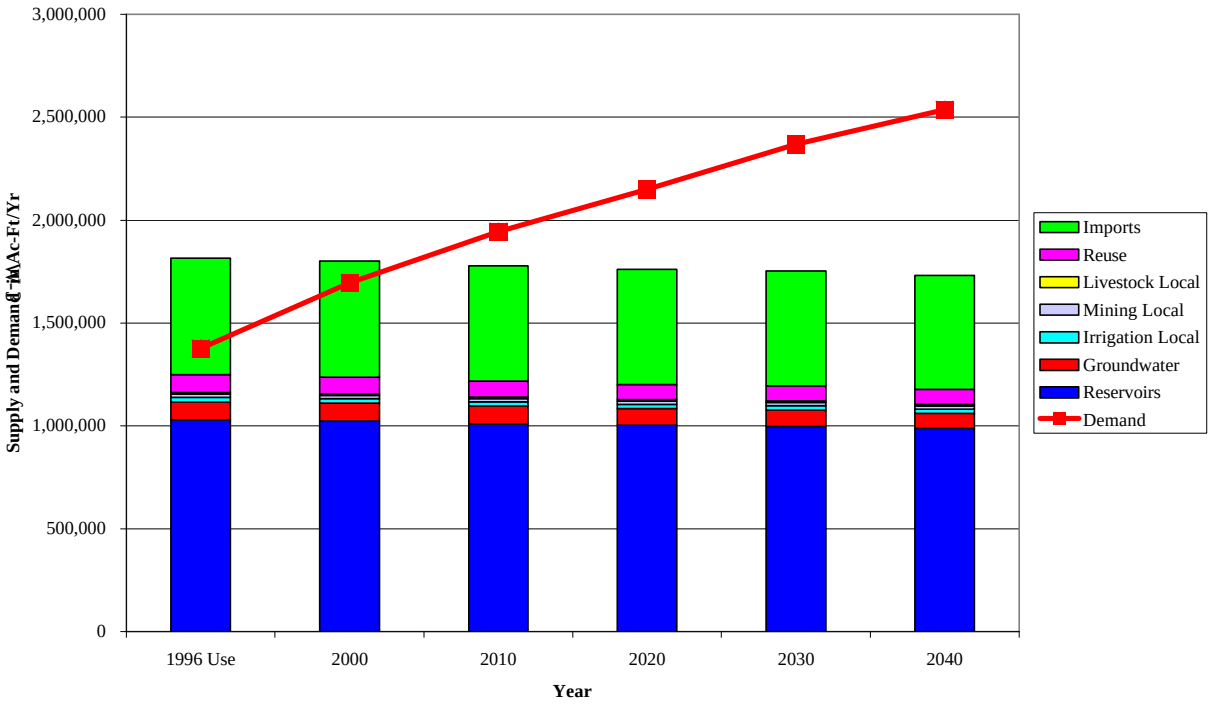


Table W-2
Overall Comparison of Supply and Demand in Region C Adjusting for Supplies Which May Not Be Used

Source	Adjusted Water Supply Available in Acre-Feet per Year					
	2000	2010	2020	2030	2040	2050
Reservoirs in Region C	1,029,455	1,024,409	1,008,994	1,003,142	996,807	987,917
Groundwater	86,710	86,399	86,548	80,210	80,448	72,592
Local Irrigation	23,300	21,632	21,632	21,632	21,632	21,632
Other Local Supply	14,534	14,534	14,534	14,534	14,534	14,536
Livestock Local Supply	8,843	8,843	8,843	8,843	8,843	8,843
Reuse	85,557	81,257	76,357	71,857	72,357	72,586
Imports	566,470	564,477	562,466	560,407	558,289	552,468
REGION C TOTAL SUPPLY	1,814,869	1,801,551	1,779,374	1,760,625	1,752,910	1,730,574
REGION C DEMAND	1,376,368	1,695,668	1,944,897	2,149,826	2,368,195	2,536,902
Surplus (Shortage)	438,501	105,883	(165,523)	(389,201)	(615,285)	(806,328)

Figure W-2
Comparison of Supply with Demand for Region C After Adjusting for Unused Supplies



Note that the needs shown in Table W-2 are based on the assumption that all other existing sources of supply available to the region are connected. Sources of additional supplies that may be available to meet the shortfall in Region C include the following:

- Reuse of treated wastewater
- Enhanced water conservation programs
- Increased use of water from Lake Texoma
- Connection with water supplies in Oklahoma
- Development of new reservoirs.

Based on the work done to date, new reservoirs will provide somewhat over 600,000 acre-feet per year in supplies for Region C.

Basic Data On Reservoirs

As discussed in Section 5 of the report, the Region C Water Planning Group selected 9 reservoirs for detailed analysis:

- Lower Bois d'Arc (New Bonham) on Bois d'Arc Creek in the Red Basin
- Upper Bois d'Arc Creek on Bois d'Arc Creek in the Red Basin
- Tehuacana on Tehuacana Creek in the Trinity Basin
- Muenster on Brushy Elm Creek in the Trinity Basin
- Ralph Hall on the North Sulphur River in the Sulphur Basin
- George Parkhouse II (North) on the North Sulphur River in the Sulphur Basin
- George Parkhouse I (South) on the South Sulphur River in the Sulphur Basin
- Marvin Nichols I (North) on the Sulphur River in the Sulphur Basin
- Marvin Nichols II (South) on White Oak Creek in the Sulphur Basin

Table W-3 includes available basic information on these nine reservoir sites. Figure W-3 shows the location of the proposed reservoirs. The Ralph Hall, Muenster, and Upper Bois d'Arc Creek sites have not been studied as extensively as the other proposed reservoirs, and more information needs to be developed about them. However, these

Table W-3
Potential New Reservoirs for Region C Water Supply

Name	Region	County	Basin	Stream	Yield in Acre-Feet/Year			Estimated Capital Cost		
					Holding All Inflow	With Releases*	Source	Previous Estimate	Base Year	1999 Cost
Tehuacana	C	Freestone	Trinity	Tehuacana Creek	68,300		A, D	$113,121,000	1989	$148,189,000
Muenster	C	Cooke	Trinity	Brushy Elm Creek	500		B			
Lower Bois d'Arc Creek	C	Fannin	Red	Bois d'Arc Creek	124,700	123,000	C	$95,961,000	1995	$106,517,000
Upper Bois d'Arc Creek	C	Fannin	Red	Bois d'Arc Creek						
Ralph Hall	C	Fannin	Sulphur	North Sulphur River						
George Parkhouse I (South)	D	Delta/ Hopkins	Sulphur	North Sulphur River	122,900	119,100	A, C, D	$167,598,000	1995	$186,034,000
George Parkhouse II (North)	D	Delta/ Lamar	Sulphur	South Sulphur River	141,200	129,700	A, C, D	$112,095,000	1995	$126,667,000
Marvin Nichols I (North)	D	Red River/ Morris/ Titus	Sulphur	Sulphur River	641,700	619,100	A, C, D	$384,521,000	1995	$426,818,000
Marvin Nichols II (South)	D	Morris/ Titus	Sulphur	White Oak Creek	294,800		A	$191,081,000	1989	$250,316,000

Table W-3, Continued

Name	Year 1999 Cost per Ac-Ft/Yr	Approximate Delivery (Miles)	Environmental Impacts					Interbasin Transfer Required	Region C Entities Interested
			Acres Flooded	Wetland Impacts	Bottomland Hardwoods	Endangered Species	Other Issues		
Tehuacana	$2,170	90	14,900	Moderate	Moderate	Low	Lignite	No	TRWD
Muenster		5		Low	Low	Low		No	Muenster
Lower Bois d'Arc Creek	$854	80	16,400	Moderate	Moderate	Low	National Grassland	Yes	NTMWD
Upper Bois d'Arc Creek		10		Low	Low	Low		No	Fannin Co.
Ralph Hall		15		Low	Low	Low		Yes	Fannin Co.
George Parkhouse I (South)	$1,514	100	29,700	Moderate	Moderate	Low	Mitigation land	Yes	Several
George Parkhouse II (North)	$897	100	12,300	Moderate	Low	Low	Prime farmland	Yes	Several
Marvin Nichols I (North)	$665	130	62,100	High	High	Low	Lignite	Yes	Several
Marvin Nichols II (South)	$849	130	35,900	High	Moderate to high	Low	Mitigation Land Oil wells	Yes	Several

Sources:
A. Freese and Nichols, Inc., and Alan Plummer Associates, Inc.: *Regional Water Supply Plan*, prepared for the Tarrant County WCID #1 in conjunction with the Texas Water Development Board, Fort Worth, 1990.
B. Texas Water Development Board Yield Estimates.
C. Freese and Nichols, Inc.: *Preliminary Study of Sources of Additional Water Supply*, prepared for North Texas MWD, Fort Worth, 1996.
D. Texas Parks and Wildlife Department: *An Assessment of Direct Impacts to Wildlife Habitat from Future Water Development Projects*, Austin, 1990.

Notes: * Releases are to allow full diversions for downstream water rights and to satisfy TWDB consensus criteria for instream flows.

reservoirs are relatively small projects that would provide a local water supply. They would not provide enough water to significantly affect regional water needs.

Capital Costs Of Transmission Systems

Water transmission systems will be a major part of the cost of any new water supply system. For the new reservoirs being considered for Region C, water transmission systems will consist of pump stations and pipelines. Table W-4 shows initial cost estimates for transmission systems from Lower Bois d'Arc Creek, Tehuacana, George Parkhouse I and II and Marvin Nichols I and II to Region C users. (For some projects, these initial estimates have been replaced by more detailed analyses in the final cost estimates.) Delivery from Lower Bois d'Arc Creek is assumed to be to Lake Lavon, which would make the water available to the North Texas Municipal Water District. Delivery from Tehuacana is assumed to be to Rolling Hills Water Treatment Plant, which would make the water available to Tarrant Regional Water District. Delivery from the four Sulphur Basin projects is assumed to be to the intersection of State Highways 205 and 78 in Collin County. This location is between Lake Lavon and Lake Ray Hubbard and gives an indication of the cost to deliver water to either North Texas Municipal Water District or Dallas Water Utilities.

Some of the water from new reservoirs in the Sulphur Basin would have to be delivered farther west, to Tarrant and Denton Counties, in order to meet all the needs of Region C. However, these costs will be comparable for all of the Sulphur Basin alternatives, and the costs in Table W-4 give a reasonable basis for comparison of alternatives. Costs for delivery to the west will be developed as the planning process proceeds and the locations and amounts for delivery are finalized. Treatment costs will be comparable for all of the reservoir alternatives and will also be developed later in the planning process.

Evaluation Of Reservoirs

Table W-5 is a summary comparison of the potential reservoir projects for Region C, using the evaluation criteria for Region C water supply alternatives. The individual projects are discussed below:

Table W-4
Initial Transmission System Cost Estimates

Potential Reservoir Site	Delivery to Region C		Delivery Point	Pipeline Length (Feet)	Pipeline Size (Inches)	Cost per Foot	Pipeline Cost
	Annual (Ac-Ft/Yr)	Peak (MGD)					
Marvin Nichols I (North)	495,300	663	Intersection of HWY 205 & HWY 78	520,833	2 - 108"	$479 each pipeline	$648,645,000
Marvin Nichols II (South)	224,100	300	Intersection of HWY 205 & HWY 78	515,625	1 - 108"	$479	$321,080,000
George Parkhouse I (South)	95,300	128	Intersection of HWY 205 & HWY 78	276,042	1 - 84"	$300	$107,656,000
George Parkhouse II (North)	103,800	139	Intersection of HWY 205 & HWY 78	359,375	1 - 84"	$300	$140,156,000
Lower Bois d'Arc Creek	123,000	132	Leonard	135,000	1 - 84"	$300	$52,650,000
Tehuacana	64,900	87	Rolling Hills WTP	410,000	1 - 60"	$184	$98,072,000

Potential Reservoir Site	Easements (Acres)	Easement Cost	Pump Stations	Pump Station Cost	Contingencies, Etc. (30% for Pipelines, 35% for Other)	Total Cost
Marvin Nichols I (North)	1,913	$9,565,000	2	$35,560,000	$210,387,000	$904,157,000
Marvin Nichols II (South)	1,657	$8,285,000	2	$26,670,000	$108,558,000	$464,593,000
George Parkhouse I (South)	887	$4,435,000	1	$10,000,000	$37,349,000	$159,440,000
George Parkhouse II (North)	1,155	$5,775,000	1	$10,000,000	$47,568,000	$203,499,000
Lower Bois d'Arc Creek	434	$2,170,000	1	$10,000,000	$20,055,000	$84,875,000
Tehuacana	376	$1,880,000	3	$18,000,000	$36,380,000	$154,332,000

Note: Delivery costs for Sulphur River Basin projects will need to be increased to include delivery to customers further west (Tarrant and Denton Counties). Costs for delivery further west will be estimated when more detailed information on amount and location of deliveries is available. Costs shown are adequate for comparison of alternatives.

Table W-5
Summary of Comparison on Potential Reservoirs

Name	Yield (ac-ft/yr)		Estimated Capital Cost - 1999 $				Region C
	Total with Releases	Assumed for Region C	Reservoir	Region C Share	Transmission System	Region C Total	Capital Cost per Ac-Ft/Yr
Tehuacana	64,900*	64,900	$148,189,000	$148,189,000	$154,332,000	$302,521,000	$4,661
Muenster	500**	500					
Lower Bois d'Arc Creek	123,000	123,000	$106,517,000	$106,517,000	$84,875,000	$191,392,000	$1,556
Ralph Hall	Unknown	Unknown					
Upper Bois d'Arc Creek	Unknown	Unknown					
George Parkhouse I (South)	119,100	95,300	$186,034,000	$148,827,000	$159,440,000	$308,267,000	$3,235
George Parkhouse II (North)	129,700	103,800	$126,667,000	$101,334,000	$203,499,000	$304,833,000	$2,937
Marvin Nichols I (North)	619,100	495,300	$426,818,000	$341,454,000	$904,157,000	$1,245,611,000	$2,515
Marvin Nichols II (South)	280,100*	224,100	$250,316,000	$200,253,000	$464,593,000	$664,846,000	$2,967

Table W-5, Continued

Name	Environmental Impacts						Consistency with Region C Supplier Plans	Consistency with Plans of Other Regions
	Acres Flooded	Wetland Impacts	Habitat Impacts	Instream Flows	Cultural Resources	Other		
Tehuacana	14,900	Moderate	Moderate	Low	High?	Lignite Oil and Gas	Good (TRWD)	N/A
Muenster	Unknown	Low	Low	Low	Low		Good (Muenster)	N/A
Lower Bois d'Arc Creek	16,400	Moderate	Moderate	Low	High?	National Grassland	Fair (NTMWD)	N/A
Ralph Hall	Unknown	Low	Low	Moderate	High?	National Grassland	Fair	Poor to Fair
Upper Bois d'Arc Creek	Unknown	Low	Low	Moderate	High?	Conflicts with Lower Bois d'Arc	Fair	Good
George Parkhouse I (South)	29,700	Moderate	Moderate	Moderate	High?	Mitigation land	Fair	Good
George Parkhouse II (North)	12,300	Moderate	Low	Moderate	High?	Prime farmland	Fair	Good
Marvin Nichols I (North)	62,100	High	High	Moderate	High?	Lignite Oil and Gas	Good	Good
Marvin Nichols II (South)	35,900	High	Moderate to High	Moderate	High?	Oil and Gas Mitigation Land	Fair	Fair

Notes: a. *The yield with releases for Tehuacana and Marvin Nichols South is assumed to be 5% less than the yield holding all inflow.
b. **The yield with releases for Muenster is assumed to be the permitted yield.
c. For the reservoirs in Region D, 80% of the total supply is assumed to be available for Region C. 80% of the cost is also assigned to Region C.

Tehuacana Reservoir. Tehuacana Reservoir would be located in Freestone County on Tehuacana Creek, immediately south of Richland-Chambers Reservoir. This project is part of the long-range plans of the Tarrant Regional Water District, and it fits well with TRWD's system. Because of its small size, Tehuacana has a relatively high unit cost for raw water in the reservoir. The cost of delivered water is also relatively high, but Tehuacana is the only project for which the transmission cost is for water delivered to the west side of the Metroplex. Delivery costs would probably be reduced if the transmission system were developed in conjunction with other water supply alternatives for Tarrant Regional Water District. The most significant environmental impacts of the reservoir would be the inundation of habitat, including wetlands and bottomland hardwoods. There are lignite resources and oil and gas wells in the area that would be inundated by Tehuacana Reservoir.

Muenster Lake. Muenster Lake is a small project proposed by the City of Muenster for Brushy Elm Creek in Cooke County. It already has a Texas Natural Resource Conservation Commission water right permit. Due to its small size, it would have little environmental impact. Its yield would help to reduce the current overuse of groundwater in Cooke County.

Lower Bois d'Arc Creek Lake (New Bonham). Lower Bois d'Arc Creek Lake would be located on Bois d'Arc Creek in Fannin County, immediately upstream from the Caddo National Grassland. The lake would provide relatively inexpensive raw water in the reservoir, and the cost of delivered water is also low. The most significant environmental impacts of Lower Bois d'Arc Creek Lake would be the inundation of habitat, including wetlands and bottomland hardwoods. The lake would inundate the Bois d'Arc Creek bottomland hardwoods area, which is designated as a Priority 4 area in the 1984 U.S. Fish and Wildlife Service *Bottomland Hardwood Protection Plan.* (A Priority 4 area is a "moderate quality bottomlands with minor waterfowl benefits.") The lake would have no direct impacts on the Caddo National Grasslands, but changes in flow patterns on Bois d'Arc Creek could have an indirect impact. Meeting the release requirements from the Texas Water Development Board consensus criteria for releases would minimize this impact.

Upper Bois d'ArcCrreek Lake. Upper Bois d'Arc Creek Lake would be located on Bois d'Arc Creek in Fannin County, upstream from the city of Bonham. The lake would have a small yield and would be best suited to meeting local demands in Fannin County. The reservoir would also provide some flood protection benefits. The Upper Bois d'Arc Creek project would reduce the need of the Lower Bois d'Arc Creek project.

Ralph Hall. Ralph Hall Reservoir would be located on the North Sulphur River in Fannin County. Because of its limited drainage area, it would have a relatively small yield, probably 30,000 acre-feet per year or less. The low yield would make the unit cost of water transmission to distant users relatively high and make the reservoir best suited to meet local demands. There is potential for conflict between the lake and the part of the Caddo National Grasslands in southern Fannin County. The Ralph Hall project is also

being considered as a way to address erosion problems along the North Fork of the Sulphur River.

George Parkhouse I (South). This project is located on the South Sulphur River in Delta and Hopkins Counties. It has a relatively high unit cost for water in the reservoir, but it is close to the Metroplex, which results in a low water transmission system cost. The lake would inundate some of the mitigation land associated with the Cooper Lake project, as well as wetland and bottomland hardwood areas. It has a relatively large surface area for the yield developed, which would increase the environmental impacts.

George Parkhouse II (North). This project is located on the North Sulphur River in Delta and Lamar Counties. It has a moderate unit cost for water in the reservoir, and it is close to the Metroplex, which results in a low water transmission system cost. The lake would have a relatively small surface area for the yield developed, which would minimize the environmental impacts. The George Parkhouse II pool does include a substantial amount of prime farmland.

Marvin Nichols I (North). The Marvin Nichols I Reservoir is located on the Sulphur River in Red River, Morris, and Titus Counties. It is a very large project, with a large yield and a low unit cost of water in the reservoir. It is located at some distance from the Metroplex, which results in a substantial cost for the water transmission system. The most significant environmental impact of the Marvin Nichols I project would be the inundation of habitat, including wetlands and bottomland hardwoods. The lake would inundate a portion of the Sulphur River Bottom West/Cuckoo Pond bottomland hardwoods area, which is designated as a Priority 1 area in the 1984 U.S. Fish and Wildlife Service *Bottomland Hardwood Protection Plan.* (A Priority 1 area is an "excellent quality bottomlands of high value to the key waterfowl species.") There are also lignite deposits and some oil and gas wells in the pool area of the lake.

Marvin Nichols II (South). The Marvin Nichols II Reservoir is located on White Oak Creek in Morris and Titus Counties. It is a large project, with a large yield and a medium unit cost of water in the reservoir. As with Marvin Nichols I, the distance from the Metroplex results in a substantial cost for the water transmission system. The significant environmental impacts of the Marvin Nichols II project would include the inundation of parts of the White Oak Creek Wildlife Management Area and the inundation of habitat, including wetlands and bottomland hardwoods. The lake would inundate a portion of the White Oak Creek bottomland hardwoods area, which is designated as a Priority 1 area in the 1984 U.S. Fish and Wildlife Service *Bottomland Hardwood Protection Plan.* (A Priority 1 area is an "excellent quality bottomlands of high value to the key waterfowl species.") There are also a significant number of oil and gas wells and some lignite deposits in the pool area of the lake.

Recommendations

Reservoir Development in the Sulphur Basin

There are two approaches to reservoir development in the Sulphur Basin that would provide the needed water supplies for Region C:

Table W-6
Comparison of Marvin Nichols I and Other Sulphur Basin Projects

	Benefits/Impacts				
	George Parkhouse I	**George Parkhouse II**	**Marvin Nichols II**	**Total**	**Marvin Nichols I**
Yield	119,100	129,700	280,100	528,900	619,100
Region C Yield	95,300	103,800	224,100	423,200	495,300
Region D Yield	23,800	25,900	56,000	105,700	123,800
Total Capital Cost	$308,267,000	$304,833,000	$664,846,000	$1,277,946,000	$1,245,611,000
Acres Flooded	29,700	12,300	35,900	77,900	62,100

- Develop Marvin Nichols I Reservoir in the next 50 years.
- Develop the George Parkhouse I and II and Marvin Nichols II reservoirs in the next 50 years.

Table W-6 is a comparison of the cost and impacts of these two approaches:

- The total capital cost of developing the George Parkhouse I and II and Marvin Nichols II reservoirs is slightly higher than the cost of the Marvin Nichols I reservoir ($1,277,946,000 to $1,245,611,000). Because of differences in yield, the unit cost of water from the three reservoirs would be substantially higher than the unit cost of water from Marvin Nichols I.
- Marvin Nichols I would make more water available to Region C than the other three projects (495,300 acre-feet per year to 423,200 acre-feet per year).
- Marvin Nichols I would make more water available to Region D than the other three projects (123,800 acre-feet per year versus 105,700 acre-feet per year).
- Development of the three reservoirs would inundate substantially more land than development of Marvin Nichols I (77,900 acres versus 62,100 acres).
- The three reservoirs would conflict with two existing wildlife mitigation areas and with numerous oil and gas wells in the Marvin Nichols II pool. (Based on available information, Marvin Nichols I has significantly less conflicts with oil and gas wells than Marvin Nichols II.)

Decision 1. Marvin Nichols I (North) Reservoir on the Sulphur River is recommended as a management strategy for water supply for Region C and Region D by 2030.

The two George Parkhouse Reservoirs would be substantially less desirable once the Marvin Nichols I Reservoir is developed. (This is true because they would reduce the

yield of the Marvin Nichols I project downstream.) On the other hand, the desirability of the Marvin Nichols II project would not be affected by the development of Marvin Nichols I, and Marvin Nichols II might be developed after 2050 to supplement Marvin Nichols I and provide additional water supplies for Region D and Region C.

Decision 2. If the Marvin Nichols I Reservoir site cannot be developed, the George Parkhouse I and II Reservoirs and the Marvin Nichols II Reservoir would be developed as an alternative. If Marvin Nichols I cannot be developed and the other three reservoirs are needed, the George Parkhouse II Reservoir should be developed first due to low cost and lesser environmental concerns, followed by George Parkhouse I and Marvin Nichols II.

Decision 3. Ralph Hall Reservoir is included as an alternative water management strategy for possible development after 2030 in the Region C water plan.

Reservoir Development Elsewhere in Region C

Decision 4. The Muenster Reservoir is included as a water supply project in the Region C plan.

Decision 5. The Lower Bois d'Arc Creek Lake is included as a water management strategy for North Texas Municipal Water District, to be developed by 2020. The North Texas MWD has more immediate water supply needs than other major water providers in Region C. Since Lower Bois d'Arc is smaller and has less environmental impact that Marvin Nichols I, it can be developed more quickly to meet NTMWD's needs.

Decision 6. Tehuacana Reservoir and Upper Bois d'Arc Creek Lake are included as possible alternative sources of supply for Region C to be developed after 2030 but before 2050.

Designation of Unique Reservoir Sites

Decision 7. Region C will pursue the designation of the Marvin Nichols I site as a unique site for reservoir development.

Decision 8. Region C will pursue the designation of the Muenster, Lower Bois d'Arc Creek, and Tehuacana sites as unique sites for reservoir development.

Description of File for Texas Water Development Board Table 4

Column	Description
A	Name of specific source (aquifer name, reservoir name, system name)
B	Type of water supply (00=current surface water, 01=current groundwater, 02=system)
C	Regional Water Planning Group where supply is located: letter A through P
D	County number for county where supply source located: 1 through 254
E	Basin number where supply source is located: 1 through 23
F	Identifier for specific source (aquifer number, reservoir number, system identifier)
G	Value for year 2000 of total supply from this source during drought of record conditions
H	Value for year 2010 of total supply from this source during drought of record conditions
I	Value for year 2020 of total supply from this source during drought of record conditions
J	Value for year 2030 of total supply from this source during drought of record conditions
K	Value for year 2040 of total supply from this source during drought of record conditions
L	Value for year 2050 of total supply from this source during drought of record conditions

TWDB TABLE 4 - CURRENT WATER SUPPLY SOURCES

Name of Specific Source	County Name of Supply Source	Basin Name for Supply Source	Specific Source Indentifier Number	Estimated 1996 Use	Value for Year 2000 of Total Supply from Source During Drought of Record Conditions	Value for Year 2010 of Total Supply from Source During Drought of Record Conditions	Value for Year 2020 of Total Supply from Source During Drought of Record Conditions	Value for Year 2030 of Total Supply from Source During Drought of Record Conditions	Value for Year 2040 of Total Supply from Source During Drought of Record Conditions
WATER SUPPLY SYSTEMS									
North Texas MWD System	Grayson/Collin/Delta (Hopkins)	Red/Trinity/ Sulphur	020B0	185,948	270,741	268,641	266,641	264,441	262,241
Lost Creek/Jacksboro System	Jack	Trinity	08290	589	1,397	1,397	1,397	1,397	1,397
West Fork less Bridgeport Local	Tarrant	Trinity	086C0	75,350	86,600	85,600	84,600	83,600	82,600
Cedar Creek/Richland-Chambers System	Henderson (Kaufman)/ Freestone (Navarro)	Trinity	086E0	162,313	385,000	385,000	385,000	385,000	385,000
Ray Hubbard/Tawakoni System	Rockwall (Dallas, Collin, Kaufman)/Rains (Van Zandt, Hunt)	Trinity/ Sabine	086F0	199,862	250,225	249,265	248,305	247,360	246,400
Elm Fork/Lake Grapevine System	Dallas (Tarrant, Denton)	Trinity	086D0	238,708	220,420	219,040	207,545	206,165	204,670
Total for Systems				862,770	1,214,383	1,208,943	1,193,488	1,187,963	1,182,308
- Portion from Region C Reservoirs				718,842	943,042	938,502	924,047	919,422	914,667
- Portion from Reuse				23,345	35,941	35,941	35,941	35,941	35,941
- Portion from Imports				120,583	235,400	234,500	233,500	232,600	231,700
RESERVOIRS IN REGION C									
Moss	Cooke	Red	02220	0	4,500	4,500	4,500	4,500	4,500
Muenster	Cooke	Red	08380	0	0	0	0	0	0
Texoma (Texas' Share - GTUA)	Grayson	Red	02230P	6,165	25,000	25,000	25,000	25,000	25,000
Texoma (Texas' Share - Denison)	Grayson	Red	02230P	156	24,400	24,400	24,400	24,400	24,400
Texoma (Texas' Share - TXU)	Grayson	Red	02230P	2,322	10,000	10,000	10,000	10,000	10,000
Texoma (Texas' Share - RRA)	Grayson	Red	02230P	234	2,000	2,000	2,000	2,000	2,000
Randell	Grayson	Red	02240	5,350	5,280	5,280	5,280	5,280	5,280
Valley	Fannin (Grayson)	Red	02250	0	0	0	0	0	0
Bonham	Fannin	Red	02270	1,577	5,340	5,340	5,340	5,340	4,850
Coffee Mill	Fannin	Red	02280	0	0	0	0	0	0
Kiowa	Cooke	Trinity	08090	0	0	0	0	0	0
Ray Roberts (Denton)	Denton (Cooke, Grayson)	Trinity	08100P	11,150	22,150	22,000	21,800	21,600	21,450
Lewisville (Denton)	Denton	Trinity	08110P	4,875	4,870	4,830	4,790	4,760	4,720
Bridgeport Local	Wise (Jack)	Trinity	08010P	3,019	15,000	15,000	15,000	15,000	15,000

TWDB TABLE 4 - CURRENT WATER SUPPLY SOURCES

Name of Specific Source	County Name of Supply Source	Basin Name for Supply Source	Specific Source Indentifier Number	Estimated 1996 Use	Value for Year 2000 of Total Supply from Source During Drought of Record Conditions	Value for Year 2010 of Total Supply from Source During Drought of Record Conditions	Value for Year 2020 of Total Supply from Source During Drought of Record Conditions	Value for Year 2030 of Total Supply from Source During Drought of Record Conditions	Value for Year 2040 of Total Supply from Source During Drought of Record Conditions
Benbrook	Tarrant	Trinity	08060	4,650	6,833	6,833	6,600	6,400	6,200
Richland-Chambers (Corsicana)	Freestone (Navarro)	Trinity	08240P	0	13,650	13,650	13,650	13,650	13,650
Weatherford	Parker	Trinity	08050	2,845	2,000	1,850	1,730	1,600	1,470
Grapevine (PCMUD)	Tarrant (Denton)	Trinity	0807A	9,983	10,800	10,800	10,800	10,800	10,800
Grapevine (Grapevine)	Tarrant (Denton)	Trinity	0807A	4,332	1,800	1,800	1,800	1,800	1,800
Grapevine (in dispute)	Tarrant (Denton)	Trinity	0807A	0	4,100	4,100	4,100	4,100	4,100
Arlington	Tarrant	Trinity	08120	13,000	6,450	6,400	6,350	6,300	6,250
Joe Pool	Dallas (Tarrant, Ellis)	Trinity	08130	6,860	16,900	16,800	16,600	16,500	16,400
Mountain Creek	Dallas	Trinity	08140	4,577	6,400	6,400	6,400	6,400	6,400
North	Dallas	Trinity	08080	0	0	0	0	0	0
White Rock	Dallas	Trinity	08150	0	3,000	3,000	3,000	3,000	3,000
Terrell	Kaufman	Trinity	08180	3,594	1,650	1,634	1,617	1,600	1,580
Clark	Ellis	Trinity	08640	0	0	0	0	0	0
Bardwell	Ellis	Trinity	08210	4,976	9,600	9,600	9,500	9,000	8,600
Waxahachie	Ellis	Trinity	08200	1,757	2,400	2,400	2,400	2,400	2,400
Forest Grove	Henderson	Trinity	08410	805	3,700	3,700	3,700	3,700	3,700
Trinidad City Lake	Henderson	Trinity	A08195	166	1,000	1,000	1,000	1,000	1,000
Trinidad	Henderson	Trinity	08390	4,000	4,000	4,000	4,000	4,000	4,000
Navarro Mills	Navarro	Trinity	08230	6,236	19,400	19,400	19,400	19,400	19,400
Halbert	Navarro	Trinity	08220	2,238	600	600	600	600	600
Fairfield	Freestone	Trinity	08420	0	2,000	2,000	2,000	2,000	2,000
Bryson	Jack	Brazos	12148	67	90	90	90	90	90
Mineral Wells	Parker	Brazos	12170	0	1,500	1,500	1,500	1,500	1,500
Wortham Lake	Freestone	Trinity	08265	101	0	0	0	0	0
Teague City Lake	Freestone	Brazos	12375	0	0	0	0	0	0
GROUNDWATER									
Trinity	Collin	Sabine	04328	Incl. Below	26	26	26	22	22
Trinity	Collin	Trinity	04328	1,124	5,734	5,734	5,734	4,809	4,809
Woodbine	Collin	Trinity	04329	1,106	1,832	1,832	1,832	1,832	1,832
Other	Cooke	Red	04922	0	316	203	158	130	112
Other	Cooke	Trinity	04922	0	309	0	0	0	0

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Trinity	Cooke	Red	04928	Incl. Below	669	669	669	554	554
Trinity	Cooke	Trinity	04928	6,809	3,860	3,860	3,860	3,199	3,199
Woodbine	Cooke	Red	04929	0	140	140	140	140	140
Woodbine	Cooke	Trinity	04929	0	300	300	300	300	300
Other	Dallas	Trinity	05722	479	0	0	0	4	4
Trinity	Dallas	Trinity	05728	4,221	4,964	4,964	4,964	4,964	4,964
Woodbine	Dallas	Trinity	05729	805	2,031	2,031	2,031	2,031	2,031
Trinity	Denton	Trinity	06128	10,006	6,114	6,114	6,114	5,123	5,123
Woodbine	Denton	Trinity	06129	1,845	1,010	1,010	1,010	1,010	1,010
Trinity	Ellis	Trinity	07028	3,776	5,734	5,734	5,734	4,805	4,805
Woodbine	Ellis	Trinity	07029	2,656	1,832	1,832	1,832	1,832	1,832
Trinity	Fannin	Red	07428	614	1,386	1,386	1,386	1,130	1,130
Trinity	Fannin	Sulphur	07428	Incl. Above	258	258	258	210	210
Trinity	Fannin	Trinity	07428	Incl. Above	418	418	418	341	341
Woodbine	Fannin	Red	07429	2,288	5,740	5,740	5,740	5,740	5,740
Woodbine	Fannin	Trinity	07429	Incl. Above	133	133	133	133	133
Other	Fannin	Red	07422	2,458	2,919	2,919	2,919	2,919	2,919
Carrizo-Wilcox	Freestone	Trinity	08110	2,382	82,546	82,546	82,546	82,546	82,546
Carrizo-Wilcox	Freestone	Brazos	08110	Incl. Above	11,015	11,015	11,015	11,015	11,015
Queen City	Freestone	Trinity	08124	37	345	345	345	345	345
Other	Grayson	Red	09122	29	25	25	25	25	25
Trinity	Grayson	Red	09128	Incl. Below	1,295	1,295	1,295	1,165	1,165
Trinity	Grayson	Trinity	09128	9,325	2,139	2,139	2,139	1,923	1,923
Woodbine	Grayson	Red	09129	5,954	4,900	4,900	4,900	4,900	4,900
Woodbine	Grayson	Trinity	09129	Incl. Above	810	810	810	810	810
Carrizo-Wilcox	Henderson	Trinity	10710	3,243	4,385	4,385	4,385	4,385	4,385
Nacatoch	Henderson	Trinity	10720	0	10	10	10	10	10
Other	Henderson	Trinity	10722	162	40	40	40	40	40
Queen City	Henderson	Trinity	10724	39	480	480	480	480	480
Other	Jack	Brazos	11922	Incl. Below	253	245	236	235	237
Other	Jack	Trinity	11922	640	755	687	660	651	657
Trinity	Jack	Trinity	11928	Incl. Below	190	190	190	153	153
Trinity	Jack	Brazos	11928	5	584	584	584	472	472
Nacatoch	Kaufman	Sabine	12920	Incl. Below	5	5	5	5	5
Nacatoch	Kaufman	Trinity	12920	249	179	179	179	179	179
Trinity	Kaufman	Trinity	12928	0	1,184	1,184	1,184	992	992
Woodbine	Kaufman	Trinity	12929	113	222	222	222	222	222
Carrizo-Wilcox	Navarro	Trinity	17510	73	9,172	9,172	9,172	9,172	9,172
Nacatoch	Navarro	Trinity	17520	67	229	229	229	229	229
Other	Navarro	Trinity	17522	155	104	110	121	132	143
Trinity	Navarro	Trinity	17528	0	1,873	1,873	1,873	1,570	1,570
Woodbine	Navarro	Trinity	17529	81	499	499	499	499	499
Other	Parker	Brazos	18422	31	1,815	1,996	2,215	2,506	2,743
Trinity	Parker	Trinity	18428	5,500	2,633	2,633	2,633	2,172	2,172
Trinity	Parker	Brazos	18428	0	1,258	1,258	1,258	1,038	1,038
Nacatoch	Rockwall	Trinity	19920	0	1	1	1	1	1
Trinity	Rockwall	Sabine	19928	0	399	399	399	357	357

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Trinity	Rockwall	Trinity	19928	0	766	766	766	684	684
Woodbine	Rockwall	Trinity	19929	0	144	144	144	144	144
Trinity	Tarrant	Trinity	22028	14,616	4,996	4,996	4,996	4,996	4,996
Woodbine	Tarrant	Trinity	22029	0	766	766	766	766	766
Trinity	Wise	Trinity	24928	4,592	4,968	4,968	4,968	4,163	4,163
LOCAL IRRIGATION SUPPLIES FROM SURFACE WATER									
Irrigation Local Supply:BaZoCo2 -3 -49	Cooke	Red	049996	N/A	23	23	23	23	23
Irrigation Local Supply:BaZoCo2 -3 -74	Fannin	Red	074996	N/A	12,728	12,728	12,728	12,728	12,728
Irrigation Local Supply:BaZoCo2 -3 -91	Grayson	Red	091996	N/A	996	996	996	996	996
Irrigation Local Supply:BaZoCo3 -1 -74	Fannin	Sulphur	074996	N/A	0	0	0	0	0
Irrigation Local Supply:BaZoCo5 -1 -43	Collin	Sabine	043996	N/A	0	0	0	0	0
Irrigation Local Supply:BaZoCo5 -1 -129	Kaufman	Sabine	129996	N/A	0	0	0	0	0
Irrigation Local Supply:BaZoCo5 -1 -199	Rockwall	Sabine	199996	N/A	0	0	0	0	0
Irrigation Local Supply:BaZoCo8 -1 -43	Collin	Trinity	043996	N/A	1,017	1,017	1,017	1,017	1,017
Irrigation Local Supply:BaZoCo8 -1 -49	Cooke	Trinity	049996	N/A	70	70	70	70	70
Irrigation Local Supply:BaZoCo8 -1 -57	Dallas	Trinity	057996	N/A	3,387	2,719	2,719	2,719	2,719
Irrigation Local Supply:BaZoCo8 -1 -61	Denton	Trinity	061996	N/A	634	634	634	634	634
Irrigation Local Supply:BaZoCo8 -1 -70	Ellis	Trinity	070996	N/A	508	508	508	508	508
Irrigation Local Supply:BaZoCo8 -1 -74	Fannin	Trinity	074996	N/A	0	0	0	0	0
Irrigation Local Supply:BaZoCo8 -1 -91	Grayson	Trinity	091996	N/A	0	0	0	0	0
Irrigation Local Supply:BaZoCo8 -1 -107	Henderson	Trinity	107996	N/A	2,382	2,382	2,382	2,382	2,382
Irrigation Local Supply:BaZoCo8 -1 -119	Jack	Trinity	119996	N/A	110	110	110	110	110
Irrigation Local Supply:BaZoCo8 -1 -129	Kaufman	Trinity	129996	N/A	347	347	347	347	347
Irrigation Local Supply:BaZoCo8 -1 -175	Navarro	Trinity	175996	N/A	2,901	2,841	2,841	2,841	2,841
Irrigation Local Supply:BaZoCo8 -1 -184	Parker	Trinity	184996	N/A	472	472	472	472	472
Irrigation Local Supply:BaZoCo8 -1 -199	Rockwall	Trinity	199996	N/A	0	0	0	0	0
Irrigation Local Supply:BaZoCo8 -1 -220	Tarrant	Trinity	220996	N/A	5,326	4,386	4,386	4,386	4,386
Irrigation Local Supply:BaZoCo8 -1 -249	Wise	Trinity	249996	N/A	714	714	714	714	714
Irrigation Local Supply:BaZoCo8 -2 -81	Freestone	Trinity	081996	N/A	353	353	353	353	353
Irrigation Local Supply:BaZoCo12 -3 -119	Jack	Brazos	119996	N/A	15	15	15	15	15
Irrigation Local Supply:BaZoCo12 -3 -184	Parker	Brazos	184996	N/A	1,317	1,317	1,317	1,317	1,317
Irrigation Local Supply:BaZoCo12 -5 -81	Freestone	Brazos	081996	N/A	0	0	0	0	0
OTHER LOCAL SUPPLY									
Other Local Supply	Collin	Trinity	08999	341	349	349	349	349	349
Other Local Supply	Cooke	Trinity	08999	237	237	237	237	237	237
Other Local Supply	Dallas	Trinity	08999	1,521	1,525	1,525	1,525	1,525	1,525
Other Local Supply	Denton	Trinity	08999	90	90	90	90	90	90
Other Local Supply	Fannin	Red	02999	161	161	161	161	161	161
Other Local Supply	Freestone	Trinity	08999	170	236	236	236	236	236
Other Local Supply	Henderson	Trinity	08999	13	29	29	29	29	29
Other Local Supply	Jack	Trinity	08999	370	370	370	370	370	370
Other Local Supply	Kaufman	Trinity	08999	75	75	75	75	75	75
Other Local Supply	Parker	Brazos	12999	242	242	242	242	242	242
Other Local Supply	Rockwall	Sabine	05999	33	33	33	33	33	33
Other Local Supply	Tarrant	Trinity	08999	103	103	103	103	103	103
Other Local Supply	Wise	Trinity	08999	15,470	16,084	16,084	16,084	16,084	16,084

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LIVESTOCK LOCAL SUPPLY									
Livestock Local Supply	Collin	Sabine	05997	27	35	35	35	35	35
Livestock Local Supply	Collin	Trinity	08997	757	967	967	967	967	967
Livestock Local Supply	Cooke	Red	02997	337	377	377	377	377	377
Livestock Local Supply	Cooke	Trinity	08997	722	810	810	810	810	810
Livestock Local Supply	Dallas	Trinity	08997	462	712	712	712	712	712
Livestock Local Supply	Denton	Trinity	08997	935	935	935	935	935	935
Livestock Local Supply	Ellis	Trinity	08997	1,688	1,688	1,688	1,688	1,688	1,688
Livestock Local Supply	Fannin	Red	02997	1,140	1,140	1,140	1,140	1,140	1,140
Livestock Local Supply	Fannin	Sulphur	03997	367	367	367	367	367	367
Livestock Local Supply	Fannin	Trinity	08997	76	76	76	76	76	76
Livestock Local Supply	Freestone	Trinity	08997	961	961	961	961	961	961
Livestock Local Supply	Freestone	Brazos	12997	82	82	82	82	82	82
Livestock Local Supply	Grayson	Red	02997	1,079	1,079	1,079	1,079	1,079	1,079
Livestock Local Supply	Grayson	Trinity	08997	604	604	604	604	604	604
Livestock Local Supply	Henderson	Trinity	08997	429	475	475	475	475	475
Livestock Local Supply	Jack	Trinity	08997	1,214	1,214	1,214	1,214	1,214	1,214
Livestock Local Supply	Jack	Brazos	12997	451	451	451	451	451	451
Livestock Local Supply	Kaufman	Sabine	05997	91	91	91	91	91	91
Livestock Local Supply	Kaufman	Trinity	08997	1,531	1,531	1,531	1,531	1,531	1,531
Livestock Local Supply	Navarro	Trinity	08997	1,603	1,603	1,603	1,603	1,603	1,603
Livestock Local Supply	Parker	Trinity	08997	1,026	1,026	1,026	1,026	1,026	1,026
Livestock Local Supply	Parker	Brazos	12997	896	896	896	896	896	896
Livestock Local Supply	Rockwall	Sabine	05997	20	32	32	32	32	32
Livestock Local Supply	Rockwall	Trinity	08997	86	136	136	136	136	136
Livestock Local Supply	Tarrant	Trinity	08997	360	438	438	438	438	438
Livestock Local Supply	Wise	Trinity	08997	1,117	1,117	1,117	1,117	1,117	1,117
REUSE (CURRENTLY PERMITTED OR UNDERWAY)									
Trinity River Authority/Las Colinas	Dallas	Trinity	3508C1	2,433	8,000	8,000	8,000	8,000	8,000
Trinity River Authority/Waxahachie	Ellis	Trinity	3508C1	0	3,400	3,800	3,900	4,400	4,900
Jacksboro (irrigation)	Jack	Trinity	3508C1	0	0	200	200	200	200
Lake Worth for Cooling	Tarrant	Trinity	36147	14,053	40,000	35,000	30,000	25,000	25,000
The Colony (golf)	Denton	Trinity	36132	0	100	100	100	100	100
Trophy Club (golf)	Denton	Trinity	36132	601	600	600	600	600	600
Denton (Power Plant)	Denton	Trinity	36132	135	500	500	500	500	500
UTRWD	Denton	Trinity	36132	0	2,240	2,240	2,240	2,240	2,240
Denison (golf)	Grayson	Red	36135	0	100	100	100	100	100
Country Club Water Supply (golf)	Kaufman	Trinity	36142	18	0	100	100	100	100
Crandall (golf)	Kaufman	Trinity	36142	153	200	200	200	200	200
Azle (golf)	Tarrant	Trinity	36147	123	100	100	100	100	100
Water Chase Golf Course	Tarrant	Trinity		0	2,240	2,240	2,240	2,240	2,240
North Texas MWD Buffalo Creek	Rockwall	Trinity		0	1,120	1,120	1,120	1,120	1,120
IMPORTS									
Chapman (Irving)	Delta (Hopkins)	Sulphur	03010P	0	50,600	50,200	49,900	49,500	49,100

TWDB TABLE 4 - CURRENT WATER SUPPLY SOURCES

Name of Specific Source	County Name of Supply Source	Basin Name for Supply Source	**Specific Source Indentifier Number**	Estimated 1996 Use	**Value for Year 2000 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2010 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2020 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2030 of Total Supply from Source During Drought of Record Conditions**	**Value for Year 2040 of Total Supply from Source During Drought of Record Conditions**
Chapman (Upper Trinity MWD)	Delta (Hopkins)	Sulphur	03010P	0	15,100	15,000	14,900	14,800	14,700
Tawakoni (Terrell)	Rains (Van Zandt, Hunt)	Sabine	05010P	1	9,937	9,910	9,877	9,850	9,822
Fork (Dallas)	Wood (Rains)	Sabine	05040	0	120,000	120,000	120,000	120,000	120,000
Palestine (Dallas)	Anderson (Cherokee, Smith, Henderson)	Neches	06020	0	112,700	112,100	111,500	110,900	110,200
Athens (Athens)	Henderson	Neches	06010	1,640	6,300	6,200	6,200	6,100	6,100
Livingston (TXU-Fairfield)		Trinity	08400	12,682	16,000	16,000	16,000	16,000	16,000
Vulcan Materials (from BRA)	Palo Pinto	Brazos	12150	15	35	35	35	35	35
Parker County (from Mineral Wells)	Palo Pinto	Brazos	12160	230	398	532	554	622	632

TWDB TABLE 4 - CURRENT WATER SUPPLY SOURCES

Name of Specific Source	County Name of Supply Source	Basin Name for Supply Source	Specific Source Indentifier Number	Estimated 1996 Use	Value for Year 2000 of Total Supply from Source During Drought of Record Conditions	Value for Year 2010 of Total Supply from Source During Drought of Record Conditions	Value for Year 2020 of Total Supply from Source During Drought of Record Conditions	Value for Year 2030 of Total Supply from Source During Drought of Record Conditions	Value for Year 2040 of Total Supply from Source During Drought of Record Conditions
SUMMARY									
Reservoirs in Region C				823,776	1,179,455	1,174,409	1,158,994	1,153,142	1,146,807
Groundwater				85,480	186,710	186,399	186,548	180,210	180,448
Local Irrigation				Not Avail.	33,300	31,632	31,632	31,632	31,632
Other Local Supply				18,826	19,534	19,534	19,534	19,534	19,534
Livestock Local Supply				18,061	18,843	18,843	18,843	18,843	18,843
Reuse				40,862	94,541	90,241	85,341	80,841	81,341
Imports				135,151	566,470	564,477	562,466	560,407	558,289
REGION C TOTAL				1,122,156	2,098,853	2,085,535	2,063,358	2,044,609	2,036,894
UNPERMITTED RESERVOIR YIELD									
Moss	Cooke	Red	02220		1,800	1,600	1,400	1,200	1,000
Texoma (Texas' Share)	Grayson	Red	02230		787,550	759,800	732,050	704,300	676,550
Bonham	Fannin	Red	02270		1,900	1,300	700	100	0
Cedar Creek	Henderson	Trinity	086E0		47,900	44,500	41,100	37,700	34,300
Richland-Chambers	Freestone	Trinity	08240		28,200	22,100	16,000	9,900	3,800
Bardwell	Ellis	Trinity	08210		900	400	0	0	0
Navarro Mills	Navarro	Trinity	08230		3,500	2,100	700	0	0
TOTAL UNPERMITTED YIELD					871,750	831,800	791,950	753,200	715,650

TWDB TABLE 4 - CURRENT WATER SUPPLY SOURCES

Value for Year 2050 of Total Supply from Source During Drought of Record Conditions	Comments
260,041	Includes Lavon, permitted reuse, and NTMWD share of Texoma & Chapman.
1,397	Permitted amount equal to firm yield.
81,700	Includes Eagle Mountain, Worth, and part of Bridgeport.
382,700	Limited to permit or firm yield, whichever is less. Unpermitted yield shown below.
245,340	Includes 15% overdraft of Ray Hubbard.
203,290	Includes diversions under CF-75 and Dallas' share of Ray Roberts, Lewisville, and Grapevine. Also, 10,000 AF/Y through 2010 for #5414 and 2915 AF/Y for TXU Industrial use through 2050. 15% Overdraft of Ray Roberts and Lake Grapevine.
1,174,468	
907,827	
35,941	NTMWD Lake Lavon
230,700	NTMWD Cooper Lake and Dallas Tawakoni
4,500	Limited by permit. Unpermitted yield shown below.
0	Yield is 500 af/y from TWDB data. Reservoir permitted but not built.
25,000	P-4301. Unpermitted yield for Texoma listed below.
24,400	CA-4901. Unpermitted yield for Texoma listed below.
10,000	CA-4900. Unpermitted yield for Texoma listed below.
2,000	CA-4898. Unpermitted yield for Texoma listed below.
5,280	Yields from TWDB data (CA-4901).
0	Reliable yield depends on Texoma contract. Forced evaporation was 2,735 acre-feet in 1996.
4,250	Limited to permit or firm yield, whichever is less. Unpermitted yield shown below.
0	No diversion (recreation, CA-4915)
0	No diversion (recreation. CA-2334A)
21,300	Dallas/Denton Contract
4,680	Dallas/Denton Contract
15,000	Limited by permit. Remainder of yield in West Fork less Bridgeport Local system.

TWDB TABLE 4 - CURRENT WATER SUPPLY SOURCES

Value for Year 2050 of Total Supply from Source During Drought of Record Conditions	Comments
6,000	TRWD 1990 study by Freese and Nichols. 1996 use from TNRCC files.
13,650	CA-5030. Unpermitted yield for Richland-Chambers is given below.
1,350	Yields from TWDB data.
10,800	Rights in dispute. This is minimum proposed by any party in the dispute.
1,800	Rights in dispute. This is minimum proposed by any party in the dispute.
4,100	Rights in dispute. This is the amount claimed by more than one party.
6,200	Yield from F&N operation study (1999). Lose 50 ac-ft/yr per decade per TWDB.
16,300	Yields from TWDB data.
6,400	Yields from TWDB data. Yield includes required releases from Joe Pool Lake.
0	Reliable supply depends on purchase from Dallas. Forced evaporation was 1,796 acre-feet in 1996.
3,000	Current irrigation authorization (CA-2461).
1,560	Yields from TWDB data.
0	Assumed no yield.
8,100	Yields from yield study, limited to permit. Unpermitted yield is shown below.
2,400	Yields from TWDB data.
3,700	Freese and Nichols 1974 study for TXU. 1996 release was for Lake Trinidad.
1,000	CA-4984.
4,000	Yields from TWDB data (including diversions from Trinity).
19,130	Yields from TWDB, limited to permit. Unpermitted yield is shown below.
600	Yields from TWDB data.
2,000	Yields with maximum allowable drawdown (Forrest and Cotton, 1968). Additional supply depends on purchase from TRA. Forced evaporation was 6,916 acre-feet in 1996.
90	Has supplied up to 74 acre-feet.
1,500	Yields from TWDB data.
0	Not a reliable supply.
0	Not a reliable supply.
22	
4,809	279 AF Other-Undif. In 1996
1,832	
117	
0	

TWDB TABLE 4 - CURRENT WATER SUPPLY SOURCES

Value for Year 2050 of Total Supply from Source During Drought of Record Conditions	Comments
554	
3,199	
140	
300	
4	
4,964	
2,031	
5,123	
1,010	
4,805	
1,832	
1,130	
210	
341	
5,740	
133	
2,919	Based on maximum historical
82,546	46 AF Other-Undif. In 1996
11,015	
345	
25	
1,165	
1,923	
4,900	
810	
4,385	
10	
40	
480	
242	
671	
153	
472	
5	
179	
992	
222	
9,172	
229	
155	
1,570	
499	
2,929	
2,172	
1,038	
1	158 AF Other-Undif. In 1996
357	

TWDB TABLE 4 - CURRENT WATER SUPPLY SOURCES

Value for Year 2050 of Total Supply from Source During Drought of Record Conditions	Comments
684	
144	
4,996	
766	
4,163	15 AF Other-Undif. In 1996
23	
12,728	
996	
0	
0	
0	
0	
1,017	
70	
2,719	
634	
508	
0	
0	
2,382	
110	
347	
2,841	
472	
0	
4,386	
714	
353	
15	
1,317	
0	
349	Based on maximum historical use (1992)
237	Based on maximum historical use (1997)
1,525	Based on maximum historical use (1997)
90	Based on maximum historical use (1997)
161	Based on maximum historical use (1996)
236	Based on maximum historical use (1994)
29	Based on maximum historical use (1997)
370	Based on maximum historical use (1997)
75	Based on maximum historical use (1997)
242	Based on maximum historical use (1997)
33	Based on maximum historical use (1997)
105	Based on maximum historical use (1997). Year 2050 increased to meet demand.
16,084	Based on maximum historical use (1997)

TWDB TABLE 4 - CURRENT WATER SUPPLY SOURCES

Value for Year 2050 of Total Supply from Source During Drought of Record Conditions	Comments
35	Based on maximum historical use (1991)
967	Based on maximum historical use (1991)
377	Based on maximum historical use (1994)
810	Based on maximum historical use (1994)
712	Based on maximum historical use (1993)
935	Based on maximum historical use (1996)
1,688	Based on maximum historical use (1996)
1,140	Based on maximum historical use (1996)
367	Based on maximum historical use (1996)
76	Based on maximum historical use (1996)
961	Based on maximum historical use (1996)
82	Based on maximum historical use (1996)
1,079	Based on maximum historical use (1996)
604	Based on maximum historical use (1996)
475	Based on maximum historical use (1991)
1,214	Based on maximum historical use (1996)
451	Based on maximum historical use (1996)
91	Based on maximum historical use (1996)
1,531	Based on maximum historical use (1996)
1,603	Based on maximum historical use (1996)
1,026	Based on maximum historical use (1996)
896	Based on maximum historical use (1996)
32	Based on maximum historical use (1991)
136	Based on maximum historical use (1991)
438	Based on maximum historical use (1993)
1,117	Based on maximum historical use (1996)
8,000	Contract allows for 8,000 AF/Y or more.
5,129	93% of 65% of projected use, limited to permit.
200	
25,000	Return flow from non-consumptive cooling use. Based on highest recent use.
100	
600	
500	
2,240	
100	
100	
200	
100	
2,240	Buys from Fort Worth
1,120	Buys from NTMWD
48,800	

TWDB TABLE 4 - CURRENT WATER SUPPLY SOURCES

Value for Year 2050 of Total Supply from Source During Drought of Record Conditions	Comments
10,900	
9,789	
120,000	Exportation to Region C limited by trans-basin diversion permit.
109,600	
6,000	
16,000	
35	Contract with BRA
644	Supply from Lake Palo Pinto.

TWDB TABLE 4 - CURRENT WATER SUPPLY SOURCES

Value for Year 2050 of Total Supply from Source During Drought of Record Conditions	Comments
1,137,917	56.26%
180,670	8.93%
31,632	1.56%
19,536	0.97%
18,843	0.93%
81,570	4.03%
552,468	27.31%
2,022,636	100.00%
800	TWDB yield in excess of permitted 4,500 acre-feet per year.
648,700	Texas share of yield from yield study in excess of permitted diversion of 145,400 acre-feet per year.
0	TWDB yield in excess of permitted 5,340 acre-feet per year.
31,000	Freese and Nichols computed yield in excess of permitted 175,000 acre-feet/year.
0	Freese and Nichols computed yield in excess of permitted 210,000 acre-feet/year.
0	Yields from yield study in excess of permitted 9,600 acre-feet per year.
0	TWDB yield in excess of permited 19,400 acre-feet per year.
680,500	

TABLE 4 - CURRENT WATER SUPPLY SOURCES

A	B	C	D	E	F	G	H	I	J	K
Name of Specific Source	Type of Water Supply	Regional Water Planning Group Letter	County Number for Supply Source	Basin Number for Supply Source	Specific Source Indentifier Number	Value for Year 2000 of Total Supply from Source During Drought of Record Conditions	Value for Year 2010 of Total Supply from Source During Drought of Record Conditions	Value for Year 2020 of Total Supply from Source During Drought of Record Conditions	Value for Year 2030 of Total Supply from Source During Drought of Record Conditions	Value for Year 2040 of Total Supply from Source During Drought of Record Conditions
WATER SUPPLY SYSTEMS										
North Texas MWD System	02	C/D	91/43/60	2/8/3	020B0	270,741	268,641	266,641	264,441	262,241
Lost Creek/Jacksboro System	02	C	119	8	08290	1,397	1,397	1,397	1,397	1,397
West Fork less Bridgeport Local	02	C	220	8	086C0	86,600	85,600	84,600	83,600	82,600
Cedar Creek/Richland-Chambers System	02	C	81/107	8	086E0	385,000	385,000	385,000	385,000	385,000
Ray Hubbard/Tawakoni System	02	C/D	199/190	8/5	086F0	250,225	249,265	248,305	247,360	246,400
Elm Fork/Lake Grapevine System	02	C	61	8	086D0	220,420	219,040	207,545	206,165	204,670
Total for Systems						1,214,383	1,208,943	1,193,488	1,187,963	1,182,308
- Portion from Region C Reservoirs						943,042	938,502	924,047	919,422	914,667
- Portion from Reuse						35,941	35,941	35,941	35,941	35,941
- Portion from Imports						235,400	234,500	233,500	232,600	231,700
RESERVOIRS IN REGION C										
Moss	00	C	49	2	02220	4,500	4,500	4,500	4,500	4,500
Muenster	00	C	49	2	08380	0	0	0	0	0
Texoma (Texas' Share - GTUA)	00	C	91	2	02230P	25,000	25,000	25,000	25,000	25,000
Texoma (Texas' Share - Denison)	00	C	91	2	02230P	24,400	24,400	24,400	24,400	24,400
Texoma (Texas' Share - TXU)	00	C	91	2	02230P	10,000	10,000	10,000	10,000	10,000
Texoma (Texas' Share - RRA)	00	C	91	2	02230P	2,000	2,000	2,000	2,000	2,000
Randell	00	C	91	2	02240	5,280	5,280	5,280	5,280	5,280
Valley	00	C	74	2	02250	0	0	0	0	0
Bonham	00	C	74	2	02270	5,340	5,340	5,340	5,340	4,850
Coffee Mill	00	C	74	2	02280	0	0	0	0	0
Kiowa	00	C	49	8	08090	0	0	0	0	0
Ray Roberts (Denton)	00	C	61	8	08100P	22,150	22,000	21,800	21,600	21,450
Lewisville (Denton)	00	C	61	8	08110P	4,870	4,830	4,790	4,760	4,720

TABLE 4 - CURRENT WATER SUPPLY SOURCES

Bridgeport Local	00	C	249	8	08010P	15,000	15,000	15,000	15,000	15,000
Benbrook	00	C	220	8	08060	6,833	6,833	6,600	6,400	6,200
Richland-Chambers (Corsicana)	00	C	81	8	08240P	13,650	13,650	13,650	13,650	13,650
Weatherford	00	C	184	8	08050	2,000	1,850	1,730	1,600	1,470
Grapevine (PCMUD)	00	C	61	8	0807A	10,800	10,800	10,800	10,800	10,800
Grapevine (Grapevine)	00	C	61	8	0807A	1,800	1,800	1,800	1,800	1,800
Grapevine (in dispute)	00	C	61	8	0807A	4,100	4,100	4,100	4,100	4,100
Arlington	00	C	220	8	08120	6,450	6,400	6,350	6,300	6,250
Joe Pool	00	C	57	8	08130	16,900	16,800	16,600	16,500	16,400
Mountain Creek	00	C	57	8	08140	6,400	6,400	6,400	6,400	6,400
North	00	C	57	8	08080	0	0	0	0	0
White Rock	00	C	57	8	08150	3,000	3,000	3,000	3,000	3,000
Terrell	00	C	129	8	08180	1,650	1,634	1,617	1,600	1,580
Clark	00	C	70	8	08640	0	0	0	0	0
Bardwell	00	C	70	8	08210	9,600	9,600	9,500	9,000	8,600
Waxahachie	00	C	70	8	08200	2,400	2,400	2,400	2,400	2,400
Forest Grove	00	C	107	8	08410	3,700	3,700	3,700	3,700	3,700
Trinidad City Lake	00	C	107	8	A08195	1,000	1,000	1,000	1,000	1,000
Trinidad	00	C	107	8	08390	4,000	4,000	4,000	4,000	4,000
Navarro Mills	00	C	175	8	08230	19,400	19,400	19,400	19,400	19,400
Halbert	00	C	175	8	08220	600	600	600	600	600
Fairfield	00	C	81	8	08420	2,000	2,000	2,000	2,000	2,000
Bryson	00	C	119	12	12148	90	90	90	90	90
Mineral Wells	00	C	182	12	12170	1,500	1,500	1,500	1,500	1,500
Wortham Lake	00	C	81	8	08265	0	0	0	0	0
Teague City Lake	00	C	81	12	12375	0	0	0	0	0
GROUNDWATER										
Trinity	01	C	43	5	04328	26	26	26	22	22
Trinity	01	C	43	8	04328	5,734	5,734	5,734	4,809	4,809
Woodbine	01	C	43	8	04329	1,832	1,832	1,832	1,832	1,832
Other	01	C	49	2	04922	316	203	158	130	112
Other	01	C	49	8	04922	309	0	0	0	0
Trinity	01	C	49	2	04928	669	669	669	554	554
Trinity	01	C	49	8	04928	3,860	3,860	3,860	3,199	3,199
Woodbine	01	C	49	2	04929	140	140	140	140	140

TABLE 4 - CURRENT WATER SUPPLY SOURCES

Woodbine	01	C	49	8	04929	300	300	300	300	300
Other	01	C	57	8	05722	0	0	0	4	4
Trinity	01	C	57	8	05728	4,964	4,964	4,964	4,964	4,964
Woodbine	01	C	57	8	05729	2,031	2,031	2,031	2,031	2,031
Trinity	01	C	61	8	06128	6,114	6,114	6,114	5,123	5,123
Woodbine	01	C	61	8	06129	1,010	1,010	1,010	1,010	1,010
Trinity	01	C	70	8	07028	5,734	5,734	5,734	4,805	4,805
Woodbine	01	C	70	8	07029	1,832	1,832	1,832	1,832	1,832
Trinity	01	C	74	2	07428	1,386	1,386	1,386	1,130	1,130
Trinity	01	C	74	3	07428	258	258	258	210	210
Trinity	01	C	74	8	07428	418	418	418	341	341
Woodbine	01	C	74	2	07429	5,740	5,740	5,740	5,740	5,740
Woodbine	01	C	74	8	07429	133	133	133	133	133
Other	01	C	74	2	07422	2,919	2,919	2,919	2,919	2,919
Carrizo-Wilcox	01	C	81	8	08110	82,546	82,546	82,546	82,546	82,546
Carrizo-Wilcox	01	C	81	12	08110	11,015	11,015	11,015	11,015	11,015
Queen City	01	C	81	8	08124	345	345	345	345	345
Other	01	C	91	2	09122	25	25	25	25	25
Trinity	01	C	91	2	09128	1,295	1,295	1,295	1,165	1,165
Trinity	01	C	91	8	09128	2,139	2,139	2,139	1,923	1,923
Woodbine	01	C	91	2	09129	4,900	4,900	4,900	4,900	4,900
Woodbine	01	C	91	8	09129	810	810	810	810	810
Carrizo-Wilcox	01	C	107	8	10710	4,385	4,385	4,385	4,385	4,385
Nacatoch	01	C	107	8	10720	10	10	10	10	10
Other	01	C	107	8	10722	40	40	40	40	40
Queen City	01	C	107	8	10724	480	480	480	480	480
Other	01	C	119	12	11922	253	245	236	235	237
Other	01	C	119	8	11922	755	687	660	651	657
Trinity	01	C	119	8	11928	190	190	190	153	153
Trinity	01	C	119	12	11928	584	584	584	472	472
Nacatoch	01	C	129	5	12920	5	5	5	5	5
Nacatoch	01	C	129	8	12920	179	179	179	179	179
Trinity	01	C	129	8	12928	1,184	1,184	1,184	992	992
Woodbine	01	C	129	8	12929	222	222	222	222	222
Carrizo-Wilcox	01	C	175	8	17510	9,172	9,172	9,172	9,172	9,172
Nacatoch	01	C	175	8	17520	229	229	229	229	229
Other	01	C	175	8	17522	104	110	121	132	143
Trinity	01	C	175	8	17528	1,873	1,873	1,873	1,570	1,570
Woodbine	01	C	175	8	17529	499	499	499	499	499
Other	01	C	184	12	18422	1,815	1,996	2,215	2,506	2,743
Trinity	01	C	184	8	18428	2,633	2,633	2,633	2,172	2,172
Trinity	01	C	184	12	18428	1,258	1,258	1,258	1,038	1,038
Nacatoch	01	C	199	8	19920	1	1	1	1	1
Trinity	01	C	199	5	19928	399	399	399	357	357
Trinity	01	C	199	8	19928	766	766	766	684	684
Woodbine	01	C	199	8	19929	144	144	144	144	144
Trinity	01	C	220	8	22028	4,996	4,996	4,996	4,996	4,996
Woodbine	01	C	220	8	22029	766	766	766	766	766
Trinity	01	C	249	8	24928	4,968	4,968	4,968	4,163	4,163
LOCAL IRRIGATION SUPPLIES FROM SURFACE WATER										
Irrigation Local Supply:BaZoCo2 -3 -49	00	C	49	2	049996	23	23	23	23	23
Irrigation Local Supply:BaZoCo2 -3 -74	00	C	74	2	074996	12,728	12,728	12,728	12,728	12,728

TABLE 4 - CURRENT WATER SUPPLY SOURCES

Irrigation Local Supply:BaZoCo2 -3 -91	00	C	91	2	091996	996	996	996	996	996
Irrigation Local Supply:BaZoCo3 -1 -74	00	C	74	3	074996	0	0	0	0	0
Irrigation Local Supply:BaZoCo5 -1 -43	00	C	43	5	043996	0	0	0	0	0
Irrigation Local Supply:BaZoCo5 -1 -129	00	C	129	5	129996	0	0	0	0	0
Irrigation Local Supply:BaZoCo5 -1 -199	00	C	199	5	199996	0	0	0	0	0
Irrigation Local Supply:BaZoCo8 -1 -43	00	C	43	8	043996	1,017	1,017	1,017	1,017	1,017
Irrigation Local Supply:BaZoCo8 -1 -49	00	C	49	8	049996	70	70	70	70	70
Irrigation Local Supply:BaZoCo8 -1 -57	00	C	57	8	057996	3,387	2,719	2,719	2,719	2,719
Irrigation Local Supply:BaZoCo8 -1 -61	00	C	61	8	061996	634	634	634	634	634
Irrigation Local Supply:BaZoCo8 -1 -70	00	C	70	8	070996	508	508	508	508	508
Irrigation Local Supply:BaZoCo8 -1 -74	00	C	74	8	074996	0	0	0	0	0
Irrigation Local Supply:BaZoCo8 -1 -91	00	C	91	8	091996	0	0	0	0	0
Irrigation Local Supply:BaZoCo8 -1 -107	00	C	107	8	107996	2,382	2,382	2,382	2,382	2,382
Irrigation Local Supply:BaZoCo8 -1 -119	00	C	119	8	119996	110	110	110	110	110
Irrigation Local Supply:BaZoCo8 -1 -129	00	C	129	8	129996	347	347	347	347	347
Irrigation Local Supply:BaZoCo8 -1 -175	00	C	175	8	175996	2,901	2,841	2,841	2,841	2,841
Irrigation Local Supply:BaZoCo8 -1 -184	00	C	184	8	184996	472	472	472	472	472
Irrigation Local Supply:BaZoCo8 -1 -199	00	C	199	8	199996	0	0	0	0	0
Irrigation Local Supply:BaZoCo8 -1 -220	00	C	220	8	220996	5,326	4,386	4,386	4,386	4,386
Irrigation Local Supply:BaZoCo8 -1 -249	00	C	249	8	249996	714	714	714	714	714
Irrigation Local Supply:BaZoCo8 -2 -81	00	C	81	8	081996	353	353	353	353	353
Irrigation Local Supply:BaZoCo12 -3 -119	00	C	119	12	119996	15	15	15	15	15
Irrigation Local Supply:BaZoCo12 -3 -184	00	C	184	12	184996	1,317	1,317	1,317	1,317	1,317
Irrigation Local Supply:BaZoCo12 -5 -81	00	C	81	12	081996	0	0	0	0	0
OTHER LOCAL SUPPLY										
Other Local Supply	00	C	43	8	08999	349	349	349	349	349
Other Local Supply	00	C	49	8	08999	237	237	237	237	237
Other Local Supply	00	C	57	8	08999	1,525	1,525	1,525	1,525	1,525
Other Local Supply	00	C	61	8	08999	90	90	90	90	90
Other Local Supply	00	C	74	2	02999	161	161	161	161	161
Other Local Supply	00	C	81	8	08999	236	236	236	236	236
Other Local Supply	00	C	107	8	08999	29	29	29	29	29
Other Local Supply	00	C	119	8	08999	370	370	370	370	370
Other Local Supply	00	C	129	8	08999	75	75	75	75	75
Other Local Supply	00	C	184	12	12999	242	242	242	242	242
Other Local Supply	00	C	199	5	05999	33	33	33	33	33
Other Local Supply	00	C	220	8	08999	103	103	103	103	103
Other Local Supply	00	C	249	8	08999	16,084	16,084	16,084	16,084	16,084
LIVESTOCK LOCAL SUPPLY										
Livestock Local Supply	00	C	43	5	05997	35	35	35	35	35
Livestock Local Supply	00	C	43	8	08997	967	967	967	967	967
Livestock Local Supply	00	C	49	2	02997	377	377	377	377	377
Livestock Local Supply	00	C	49	8	08997	810	810	810	810	810
Livestock Local Supply	00	C	57	8	08997	712	712	712	712	712
Livestock Local Supply	00	C	61	8	08997	935	935	935	935	935
Livestock Local Supply	00	C	70	8	08997	1,688	1,688	1,688	1,688	1,688
Livestock Local Supply	00	C	74	2	02997	1,140	1,140	1,140	1,140	1,140
Livestock Local Supply	00	C	74	3	03997	367	367	367	367	367
Livestock Local Supply	00	C	74	8	08997	76	76	76	76	76
Livestock Local Supply	00	C	81	8	08997	961	961	961	961	961

TABLE 4 - CURRENT WATER SUPPLY SOURCES

Livestock Local Supply	00	C	81	12	12997	82	82	82	82	82
Livestock Local Supply	00	C	91	2	02997	1,079	1,079	1,079	1,079	1,079
Livestock Local Supply	00	C	91	8	08997	604	604	604	604	604
Livestock Local Supply	00	C	107	8	08997	475	475	475	475	475
Livestock Local Supply	00	C	119	8	08997	1,214	1,214	1,214	1,214	1,214
Livestock Local Supply	00	C	119	12	12997	451	451	451	451	451
Livestock Local Supply	00	C	129	5	05997	91	91	91	91	91
Livestock Local Supply	00	C	129	8	08997	1,531	1,531	1,531	1,531	1,531
Livestock Local Supply	00	C	175	8	08997	1,603	1,603	1,603	1,603	1,603
Livestock Local Supply	00	C	184	8	08997	1,026	1,026	1,026	1,026	1,026
Livestock Local Supply	00	C	184	12	12997	896	896	896	896	896
Livestock Local Supply	00	C	199	5	05997	32	32	32	32	32
Livestock Local Supply	00	C	199	8	08997	136	136	136	136	136
Livestock Local Supply	00	C	220	8	08997	438	438	438	438	438
Livestock Local Supply	00	C	249	8	08997	1,117	1,117	1,117	1,117	1,117
REUSE (CURRENTLY PERMITTED OR UNDERWAY)										
Trinity River Authority/Las Colinas	00	C	57	8	3508C1	8,000	8,000	8,000	8,000	8,000
Trinity River Authority/Waxahachie	00	C	70	8	3508C1	3,400	3,800	3,900	4,400	4,900
Jacksboro (irrigation)	00	C	119	8	3508C1	0	200	200	200	200
Lake Worth for Cooling	00	C	220	8	36147	40,000	35,000	30,000	25,000	25,000
The Colony (golf)	00	C	61	8	36132	100	100	100	100	100
Trophy Club (golf)	00	C	61	8	36132	600	600	600	600	600
Denton (Power Plant)	00	C	61	8	36132	500	500	500	500	500
UTRWD	00	C	61	8	36132	2,240	2,240	2,240	2,240	2,240
Denison (golf)	00	C	91	2	36135	100	100	100	100	100
Country Club Water Supply (golf)	00	C	129	8	36142	0	100	100	100	100
Crandall (golf)	00	C	129	8	36142	200	200	200	200	200
Azle (golf)	00	C	220	8	36147	100	100	100	100	100
Water Chase Golf Course	00	C	220	8		2,240	2,240	2,240	2,240	2,240
North Texas MWD Buffalo Creek	00	C	199	8		1,120	1,120	1,120	1,120	1,120
IMPORTS										
Chapman (Irving)	00	D	60	3	03010P	50,600	50,200	49,900	49,500	49,100
Chapman (Upper Trinity MWD)	00	D	60	3	03010P	15,100	15,000	14,900	14,800	14,700
Tawakoni (Terrell)	00	D	190	5	05010P	9,937	9,910	9,877	9,850	9,822
Fork (Dallas)	00	D	250	5	05040	120,000	120,000	120,000	120,000	120,000
Palestine (Dallas)	00	I	1	6	06020	112,700	112,100	111,500	110,900	110,200
Athens (Athens)	00	I	107	6	06010	6,300	6,200	6,200	6,100	6,100
Livingston (TXU-Fairfield)	00	H		8	08400	16,000	16,000	16,000	16,000	16,000
Vulcan Materials (from BRA)	00	G	182	12	12150	35	35	35	35	35
Parker County (from Mineral Wells)	00	G	182	12	12160	398	532	554	622	632
SUMMARY										
Reservoirs in Region C						1,179,455	1,174,409	1,158,994	1,153,142	1,146,807
Groundwater						186,710	186,399	186,548	180,210	180,448
Local Irrigation						33,300	31,632	31,632	31,632	31,632

TABLE 4 - CURRENT WATER SUPPLY SOURCES

Other Local Supply						19,534	19,534	19,534	19,534	19,534
Livestock Local Supply						18,843	18,843	18,843	18,843	18,843
Reuse						94,541	90,241	85,341	80,841	81,341
Imports						566,470	564,477	562,466	560,407	558,289
REGION C TOTAL						2,098,853	2,085,535	2,063,358	2,044,609	2,036,894
UNPERMITTED RESERVOIR YIELD										
Moss	00	C	49	2	02220	1,800	1,600	1,400	1,200	1,000
Texoma (Texas' Share)	00	C	91	2	02230	787,550	759,800	732,050	704,300	676,550
Bonham	00	C	74	2	02270	1,900	1,300	700	100	0
Cedar Creek	00	C	107	8	086E0	47,900	44,500	41,100	37,700	34,300
Richland-Chambers	00	C	81	8	08240	28,200	22,100	16,000	9,900	3,800
Bardwell	00	C	70	8	08210	900	400	0	0	0
Navarro Mills	00	C	175	8	08230	3,500	2,100	700	0	0
TOTAL UNPERMITTED YIELD						871,750	831,800	791,950	753,200	715,650

TABLE 4 - CURRENT WATER SUPPLY SOURCES

L					
Value for Year 2050 of Total Supply from Source During Drought of Record Conditions	Comments	User	County Name of Supply Source	Basin Name for Supply Source	Estimated 1996 Use
260,041	Includes Lavon, permitted reuse, and NTMWD share of Texoma & Chapman.	NTMWD	Grayson/Collin/Delta (Hopkins)	Red/Trinity/ Sulphur	185,948
1,397	Permitted amount equal to firm yield.	Jacksboro	Jack	Trinity	589
81,700	Includes Eagle Mountain, Worth, and part of Bridgeport.	TRWD	Tarrant	Trinity	75,350
382,700	Limited to permit or firm yield, whichever is less. Unpermitted yield shown below.	TRWD	Henderson (Kaufman)/ Freestone (Navarro)	Trinity	162,313
245,340	Includes 15% overdraft of Ray Hubbard.	Dallas	Rockwall (Dallas, Collin, Kaufman)/Rains (Van Zandt, Hunt)	Trinity/ Sabine	199,862
203,290	Includes diversions under CF-75 and Dallas' share of Ray Roberts, Lewisville, and Grapevine. Also, 10,000 AF/Y through 2010 for #5414 and 2915 AF/Y for TXU Industrial use through 2050. 15% Overdraft of Ray Roberts and Lake Grapevine.	Dallas	Dallas (Tarrant, Denton)	Trinity	238,708
1,174,468					862,770
907,827					718,842
35,941	NTMWD Lake Lavon				23,345
230,700	NTMWD Cooper Lake and Dallas Tawakoni				120,583
4,500	Limited by permit. Unpermitted yield shown below.	Gainesville	Cooke	Red	0
0	Yield is 500 af/y from TWDB data. Reservoir permitted but not built.	Muenster	Cooke	Red	0
25,000	P-4301. Unpermitted yield for Texoma listed below.	GTUA	Grayson	Red	6,165
24,400	CA-4901. Unpermitted yield for Texoma listed below.	Denison	Grayson	Red	156
10,000	CA-4900. Unpermitted yield for Texoma listed below.	TXU	Grayson	Red	2,322
2,000	CA-4898. Unpermitted yield for Texoma listed below.	RRA	Grayson	Red	234
5,280	Yields from TWDB data (CA-4901).	Denison	Grayson	Red	5,350
0	Reliable yield depends on Texoma contract. Forced evaporation was 2,735 acre-feet in 1996.	TXU	Fannin (Grayson)	Red	0
4,250	Limited to permit or firm yield, whichever is less. Unpermitted yield shown below.	Bonham	Fannin	Red	1,577
0	No diversion (recreation, CA-4915)	TPWD	Fannin	Red	0
0	No diversion (recreation. CA-2334A)	Homeowners	Cooke	Trinity	0
21,300	Dallas/Denton Contract	Denton	Denton (Cooke, Grayson)	Trinity	11,150
4,680	Dallas/Denton Contract	Denton	Denton	Trinity	4,875

TABLE 4 - CURRENT WATER SUPPLY SOURCES

15,000	Limited by permit. Remainder of yield in West Fork less Bridgeport Local system.	TRWD	Wise (Jack)	Trinity	3,019
6,000	TRWD 1990 study by Freese and Nichols. 1996 use from TNRCC files.	TRWD	Tarrant	Trinity	4,650
13,650	CA-5030. Unpermitted yield for Richland-Chambers is given below.	Corsicana	Freestone (Navarro)	Trinity	0
1,350	Yields from TWDB data.	Weatherford	Parker	Trinity	2,845
10,800	Rights in dispute. This is minimum proposed by any party in the dispute.	PCMUD	Tarrant (Denton)	Trinity	9,983
1,800	Rights in dispute. This is minimum proposed by any party in the dispute.	Grapevine	Tarrant (Denton)	Trinity	4,332
4,100	Rights in dispute. This is the amount claimed by more than one party.	Unknown	Tarrant (Denton)	Trinity	0
6,200	Yield from F&N operation study (1999). Lose 50 ac-ft/yr per decade per TWDB.	Arlington, TXU	Tarrant	Trinity	13,000
16,300	Yields from TWDB data.	TRA	Dallas (Tarrant, Ellis)	Trinity	6,860
6,400	Yields from TWDB data. Yield includes required releases from Joe Pool Lake.	TXU	Dallas	Trinity	4,577
0	Reliable supply depends on purchase from Dallas. Forced evaporation was 1,796 acre-feet in 1996.	TXU	Dallas	Trinity	0
3,000	Current irrigation authorization (CA-2461).	Dallas	Dallas	Trinity	0
1,560	Yields from TWDB data.	Terrell	Kaufman	Trinity	3,594
0	Assumed no yield.	Ennis	Ellis	Trinity	0
8,100	Yields from yield study, limited to permit. Unpermitted yield is shown below.	TRA	Ellis	Trinity	4,976
2,400	Yields from TWDB data.	Waxahachie	Ellis	Trinity	1,757
3,700	Freese and Nichols 1974 study for TXU. 1996 release was for Lake Trinidad.	TXU	Henderson	Trinity	805
1,000	CA-4984.	Trinidad	Henderson	Trinity	166
4,000	Yields from TWDB data (including diversions from Trinity).	TXU	Henderson	Trinity	4,000
19,130	Yields from TWDB, limited to permit. Unpermitted yield is shown below.	TRA	Navarro	Trinity	6,236
600	Yields from TWDB data.	Corsicana	Navarro	Trinity	2,238
2,000	Yields with maximum allowable drawdown (Forrest and Cotton, 1968). Additional supply depends on purchase from TRA. Forced evaporation was 6,916 acre-feet in 1996.	TXU	Freestone	Trinity	0
90	Has supplied up to 74 acre-feet.	Bryson	Jack	Brazos	67
1,500	Yields from TWDB data.	Mineral Wells	Parker	Brazos	0
0	Not a reliable supply.	Wortham	Freestone	Trinity	101
0	Not a reliable supply.	Teague	Freestone	Brazos	0
22			Collin	Sabine	Incl. Below
4,809	279 AF Other-Undif. In 1996		Collin	Trinity	1,124
1,832			Collin	Trinity	1,106
117			Cooke	Red	0
0			Cooke	Trinity	0
554			Cooke	Red	Incl. Below
3,199			Cooke	Trinity	6,809
140			Cooke	Red	0

TABLE 4 - CURRENT WATER SUPPLY SOURCES

300			Cooke	Trinity	0
4			Dallas	Trinity	479
4,964			Dallas	Trinity	4,221
2,031			Dallas	Trinity	805
5,123			Denton	Trinity	10,006
1,010			Denton	Trinity	1,845
4,805			Ellis	Trinity	3,776
1,832			Ellis	Trinity	2,656
1,130			Fannin	Red	614
210			Fannin	Sulphur	Incl. Above
341			Fannin	Trinity	Incl. Above
5,740			Fannin	Red	2,288
133			Fannin	Trinity	Incl. Above
2,919	Based on maximum historical		Fannin	Red	2,458
82,546	46 AF Other-Undif. In 1996		Freestone	Trinity	2,382
11,015			Freestone	Brazos	Incl. Above
345			Freestone	Trinity	37
25			Grayson	Red	29
1,165			Grayson	Red	Incl. Below
1,923			Grayson	Trinity	9,325
4,900			Grayson	Red	5,954
810			Grayson	Trinity	Incl. Above
4,385			Henderson	Trinity	3,243
10			Henderson	Trinity	0
40			Henderson	Trinity	162
480			Henderson	Trinity	39
242			Jack	Brazos	Incl. Below
671			Jack	Trinity	640
153			Jack	Trinity	Incl. Below
472			Jack	Brazos	5
5			Kaufman	Sabine	Incl. Below
179			Kaufman	Trinity	249
992			Kaufman	Trinity	0
222			Kaufman	Trinity	113
9,172			Navarro	Trinity	73
229			Navarro	Trinity	67
155			Navarro	Trinity	155
1,570			Navarro	Trinity	0
499			Navarro	Trinity	81
2,929			Parker	Brazos	31
2,172			Parker	Trinity	5,500
1,038			Parker	Brazos	0
1	158 AF Other-Undif. In 1996		Rockwall	Trinity	0
357			Rockwall	Sabine	0
684			Rockwall	Trinity	0
144			Rockwall	Trinity	0
4,996			Tarrant	Trinity	14,616
766			Tarrant	Trinity	0
4,163	15 AF Other-Undif. In 1996		Wise	Trinity	4,592
23			Cooke	Red	N/A
12,728			Fannin	Red	N/A

TABLE 4 - CURRENT WATER SUPPLY SOURCES

996			Grayson	Red	N/A
0			Fannin	Sulphur	N/A
0			Collin	Sabine	N/A
0			Kaufman	Sabine	N/A
0			Rockwall	Sabine	N/A
1,017			Collin	Trinity	N/A
70			Cooke	Trinity	N/A
2,719			Dallas	Trinity	N/A
634			Denton	Trinity	N/A
508			Ellis	Trinity	N/A
0			Fannin	Trinity	N/A
0			Grayson	Trinity	N/A
2,382			Henderson	Trinity	N/A
110			Jack	Trinity	N/A
347			Kaufman	Trinity	N/A
2,841			Navarro	Trinity	N/A
472			Parker	Trinity	N/A
0			Rockwall	Trinity	N/A
4,386			Tarrant	Trinity	N/A
714			Wise	Trinity	N/A
353			Freestone	Trinity	N/A
15			Jack	Brazos	N/A
1,317			Parker	Brazos	N/A
0			Freestone	Brazos	N/A
349	Based on maximum historical use (1992)	Mining	Collin	Trinity	341
237	Based on maximum historical use (1997)	Mining	Cooke	Trinity	237
1,525	Based on maximum historical use (1997)	Mining	Dallas	Trinity	1,521
90	Based on maximum historical use (1997)	Mining	Denton	Trinity	90
161	Based on maximum historical use (1996)	Mining	Fannin	Red	161
236	Based on maximum historical use (1994)	Mining	Freestone	Trinity	170
29	Based on maximum historical use (1997)	Mining	Henderson	Trinity	13
370	Based on maximum historical use (1997)	Mining	Jack	Trinity	370
75	Based on maximum historical use (1997)	Mining	Kaufman	Trinity	75
242	Based on maximum historical use (1997)	Mining	Parker	Brazos	242
33	Based on maximum historical use (1997)	Mining	Rockwall	Sabine	33
105	Based on maximum historical use (1997). Year 2050 increased to meet demand.	Mining	Tarrant	Trinity	103
16,084	Based on maximum historical use (1997)	Mining	Wise	Trinity	15,470
35	Based on maximum historical use (1991)	Livestock	Collin	Sabine	27
967	Based on maximum historical use (1991)	Livestock	Collin	Trinity	757
377	Based on maximum historical use (1994)	Livestock	Cooke	Red	337
810	Based on maximum historical use (1994)	Livestock	Cooke	Trinity	722
712	Based on maximum historical use (1993)	Livestock	Dallas	Trinity	462
935	Based on maximum historical use (1996)	Livestock	Denton	Trinity	935
1,688	Based on maximum historical use (1996)	Livestock	Ellis	Trinity	1,688
1,140	Based on maximum historical use (1996)	Livestock	Fannin	Red	1,140
367	Based on maximum historical use (1996)	Livestock	Fannin	Sulphur	367
76	Based on maximum historical use (1996)	Livestock	Fannin	Trinity	76
961	Based on maximum historical use (1996)	Livestock	Freestone	Trinity	961

TABLE 4 - CURRENT WATER SUPPLY SOURCES

82	Based on maximum historical use (1996)	Livestock	Freestone	Brazos	82
1,079	Based on maximum historical use (1996)	Livestock	Grayson	Red	1,079
604	Based on maximum historical use (1996)	Livestock	Grayson	Trinity	604
475	Based on maximum historical use (1991)	Livestock	Henderson	Trinity	429
1,214	Based on maximum historical use (1996)	Livestock	Jack	Trinity	1,214
451	Based on maximum historical use (1996)	Livestock	Jack	Brazos	451
91	Based on maximum historical use (1996)	Livestock	Kaufman	Sabine	91
1,531	Based on maximum historical use (1996)	Livestock	Kaufman	Trinity	1,531
1,603	Based on maximum historical use (1996)	Livestock	Navarro	Trinity	1,603
1,026	Based on maximum historical use (1996)	Livestock	Parker	Trinity	1,026
896	Based on maximum historical use (1996)	Livestock	Parker	Brazos	896
32	Based on maximum historical use (1991)	Livestock	Rockwall	Sabine	20
136	Based on maximum historical use (1991)	Livestock	Rockwall	Trinity	86
438	Based on maximum historical use (1993)	Livestock	Tarrant	Trinity	360
1,117	Based on maximum historical use (1996)	Livestock	Wise	Trinity	1,117
8,000	Contract allows for 8,000 AF/Y or more.	TRA	Dallas	Trinity	2,433
5,129	93% of 65% of projected use, limited to permit.	TRA	Ellis	Trinity	0
200		Jacksboro	Jack	Trinity	0
25,000	Return flow from non-consumptive cooling use. Based on highest recent use.	Lockheed	Tarrant	Trinity	14,053
100		The Colony	Denton	Trinity	0
600		Trophy Club	Denton	Trinity	601
500		Denton	Denton	Trinity	135
2,240		Denton Co. FWSD #1	Denton	Trinity	0
100		Denison	Grayson	Red	0
100		Country Club	Kaufman	Trinity	18
200		Crandall	Kaufman	Trinity	153
100		Azle	Tarrant	Trinity	123
2,240	Buys from Fort Worth	Golf Course	Tarrant	Trinity	0
1,120	Buys from NTMWD	Golf Course	Rockwall	Trinity	0
48,800		Irving	Delta (Hopkins)	Sulphur	0
10,900		UTRWD	Delta (Hopkins)	Sulphur	0
9,789		Terrell	Rains (Van Zandt, Hunt)	Sabine	1
120,000	Exportation to Region C limited by trans-basin diversion permit.	Dallas	Wood (Rains)	Sabine	0
109,600		Dallas	Anderson (Cherokee, Smith, Henderson)	Neches	0
6,000		Athens	Henderson	Neches	1,640
16,000		TXU Electric		Trinity	12,682
35	Contract with BRA	Vulcan Materials (Mining)	Palo Pinto	Brazos	15
644	Supply from Lake Palo Pinto.	Mineral Wells, County Other	Palo Pinto	Brazos	230
1,137,917	56.74%				823,776
180,670	8.61%				85,480
31,632	1.58%				Not Avail.

TABLE 4 - CURRENT WATER SUPPLY SOURCES

19,536	0.97%				18,826
18,843	0.94%				18,061
81,570	3.62%				40,862
552,468	27.55%				135,151
2,022,636	100.00%				1,122,156
800	TWDB yield in excess of permitted 4,500 acre-feet per year.		Cooke	Red	
648,700	Texas share of yield from yield study in excess of permitted diversion of 145,400 acre-feet per year.		Grayson	Red	
0	TWDB yield in excess of permitted 5,340 acre-feet per year.		Fannin	Red	
31,000	Freese and Nichols computed yield in excess of permitted 175,000 acre-feet/year.		Henderson	Trinity	
0	Freese and Nichols computed yield in excess of permitted 210,000 acre-feet/year.		Freestone	Trinity	
0	Yields from yield study in excess of permitted 9,600 acre-feet per year.		Ellis	Trinity	
0	TWDB yield in excess of permited 19,400 acre-feet per year.		Navarro	Trinity	
680,500					

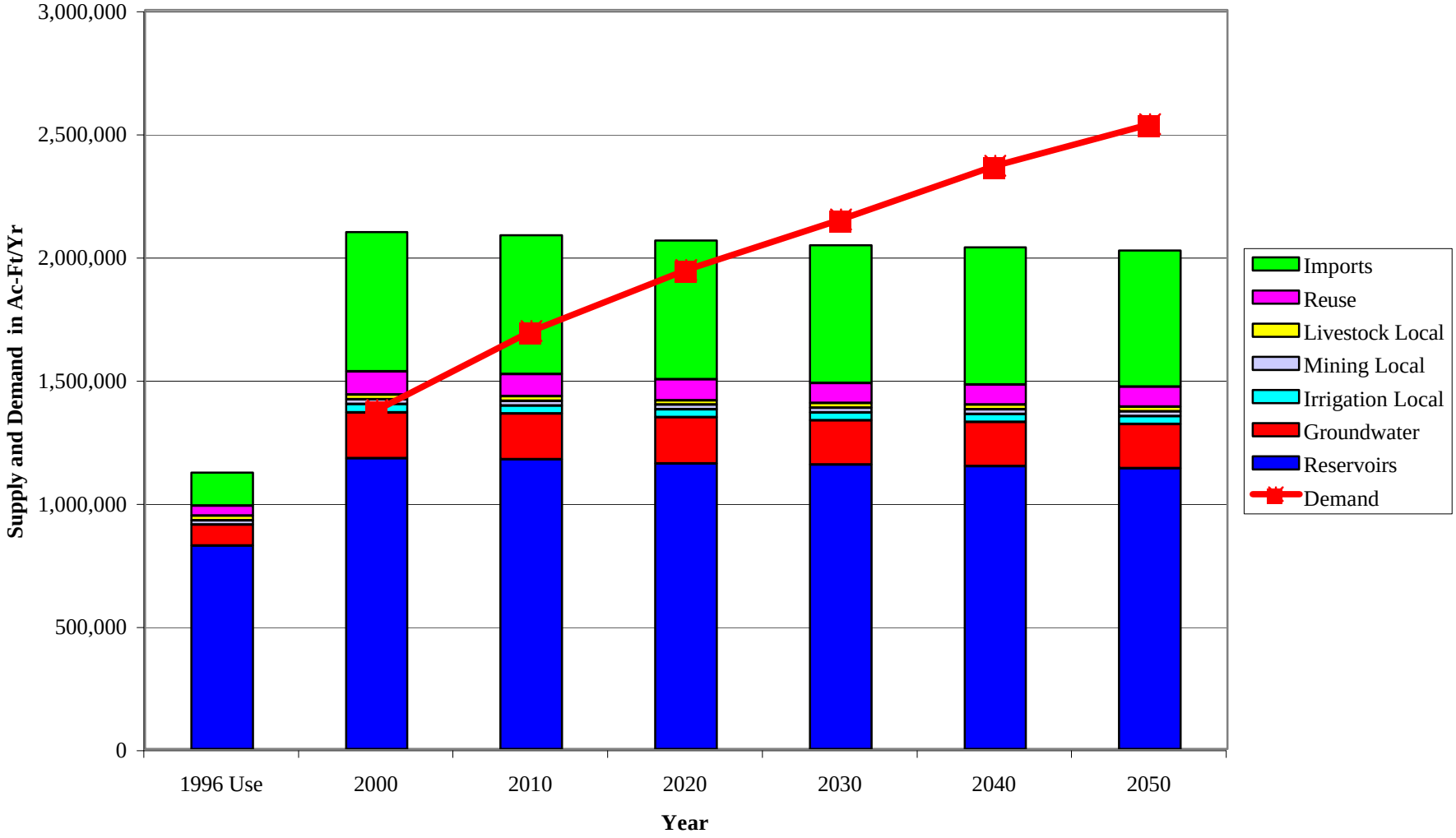
Table 1
Overall Water Supply and Demand in Region C

Source	Water Supply Available in Acre-Feet Per Year						
	1996 Use	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Reservoirs in Region C	823,776	1,179,455	1,174,409	1,158,994	1,153,142	1,146,807	1,137,917
Groundwater	85,480	186,710	186,399	186,548	180,210	180,448	180,670
Local Irrigation	Not Avail.	33,300	31,632	31,632	31,632	31,632	31,632
Other Local Supply	18,826	19,534	19,534	19,534	19,534	19,534	19,536
Livestock Local Supply	18,061	18,843	18,843	18,843	18,843	18,843	18,843
Reuse	40,862	94,541	90,241	85,341	80,841	81,341	81,570
Imports	135,151	566,470	564,477	562,466	560,407	558,289	552,468
REGION C TOTAL SUPPLY	1,122,156	2,098,853	2,085,535	2,063,358	2,044,609	2,036,894	2,022,636
REGION C DEMAND		1,381,302	1,705,513	1,954,737	2,163,805	2,391,183	2,566,944
Surplus (Shortage)		717,551	380,022	108,621	(119,196)	(354,289)	(544,308)

Table W-1
Overall Comparison of Supply and Demand in Region C

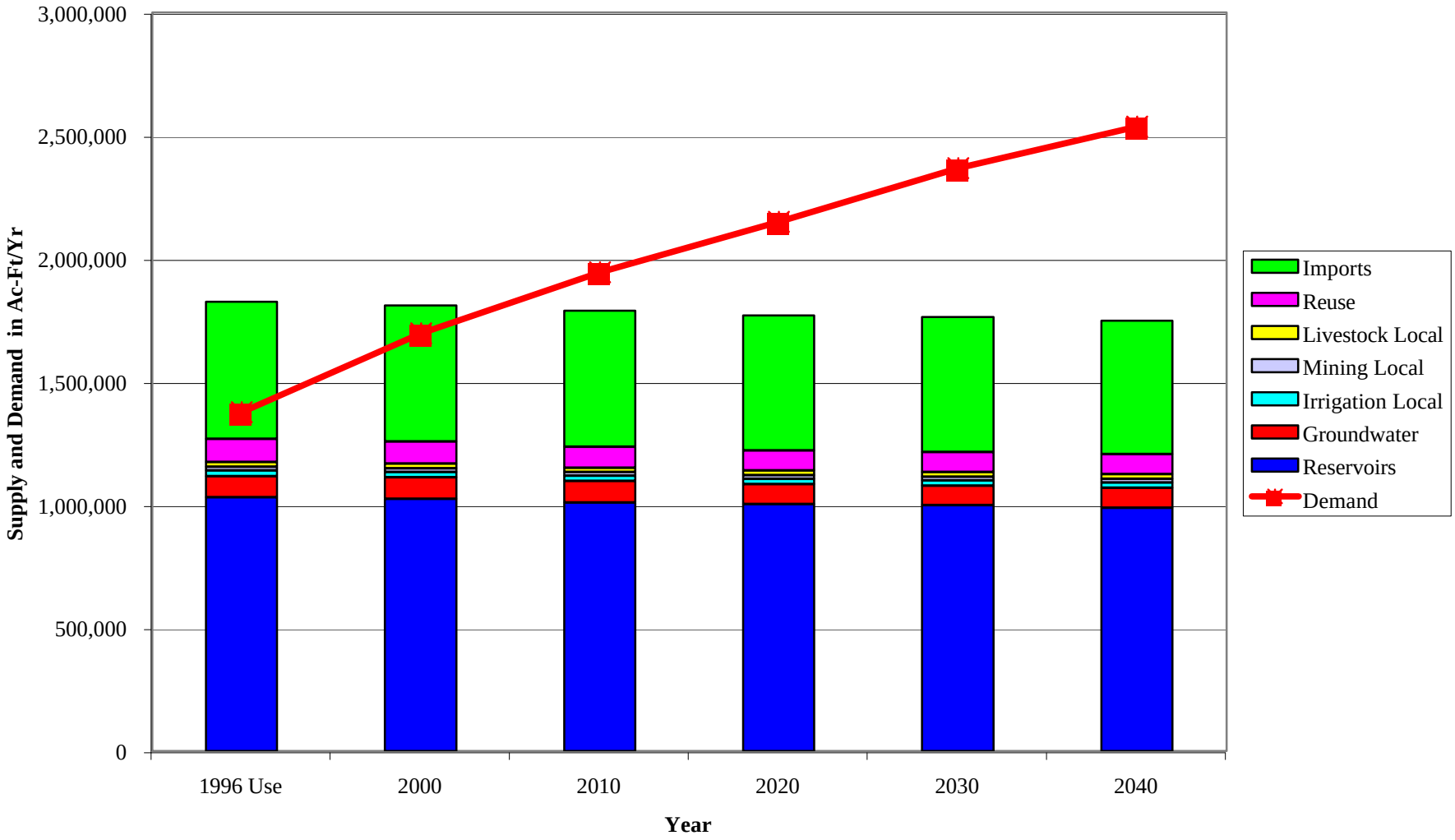
Source	Water Supply Available in Acre-Feet Per Year						
	1996 Use	**2000**	**2010**	**2020**	**2030**	**2040**	**2050**
Reservoirs in Region C	823,776	1,179,455	1,174,409	1,158,994	1,153,142	1,146,807	1,137,917
Groundwater	85,480	186,710	186,399	186,548	180,210	180,448	180,670
Local Irrigation	Not Avail.	33,300	31,632	31,632	31,632	31,632	31,632
Other Local Supply	18,826	19,534	19,534	19,534	19,534	19,534	19,536
Livestock Local Supply	18,061	18,843	18,843	18,843	18,843	18,843	18,843
Reuse	40,862	94,543	90,243	85,343	80,843	81,343	81,572
Imports	135,151	566,470	564,477	562,466	560,407	558,289	552,468
REGION C TOTAL SUPPLY	1,122,156	2,098,855	2,085,537	2,063,360	2,044,611	2,036,896	2,022,638
REGION C DEMAND		1,376,368	1,695,668	1,944,897	2,149,826	2,368,195	2,536,902
Surplus (Shortage)		722,487	389,869	118,463	**(105,215)**	**(331,299)**	**(514,264)**

Figure W-1
Comparison of Total Connected and Unconnected Supply with Demand for Region C



Source						
	2000	**2010**	**2020**	**2030**	**2040**	
Reservoirs in Region C	1,029,455	1,024,409	1,008,994	1,003,142	996,807	98
Groundwater	86,710	86,399	86,548	80,210	80,448	8
Local Irrigation	23,300	21,632	21,632	21,632	21,632	2
Other Local Supply	14,534	14,534	14,534	14,534	14,534	1
Livestock Local Supply	18,843	18,843	18,843	18,843	18,843	1
Reuse	94,543	90,243	85,343	80,843	81,343	8
Imports	556,470	554,477	552,466	550,407	548,289	54

Figure W-2
Comparison of Supply with Demand for Region C After Adjusting for Unused Supplies



APPENDIX X

SUMMARY OF LIVESTOCK SURVEY RESULTS IN REGION C

APPENDIX X
SUMMARY OF LIVESTOCK SURVEY RESULTS IN REGION C

On June 30, 2000, the Region C Water Planning Group mailed surveys to the 16 County Extension Agents in the Region C area. The County Extension Agents (CEAs) were asked to respond to the survey by July 15, 2000. As of July 15th, five of the CEAs had responded to the survey, including Cooke, Dallas, Denton, Grayson, and Tarrant Counties.

On July 20 and 21, the remaining 11 county extension agents were called to be sure they had received the surveys. Table X-1 shows the county extension agents contacted. As a result of these phone calls, three additional surveys were returned (including Collin and Fannin Counties). Several CEAs told me they had received the surveys, but they had not yet had a chance to complete them. I was also informed that the CEAs had a state convention the week of July 10th which added to the delay in the CEAs responding to the survey. The CEAs representing Navarro and Parker Counties returned their completed surveys at the beginning of September. Table X-1 lists the contacts used for the livestock survey and the record of correspondence.

The information for the counties received is tabulated in Table X-2. This table represents the CEA responses to the various questions. Using Texas Water Development Board water demand information for livestock, current estimates for livestock demands were based on the information received from the responding CEAs. The livestock estimates are included in Table X-3. Table X-3 also compares the CEA estimates to the TWDB estimates for the year 2000. The TWDB estimates were very close to the CEA estimates for Collin County. The CEA estimates were higher for Fannin, Grayson, and Tarrant Counties. The TWDB estimates were higher than the CEA estimates for Cooke, Dallas, Denton, Navarro and Parker Counties.

Table X-1
Contacts for Livestock Survey

County	Contact Person	Date Completed by CEA	Date Received at FNI	Date(s) of Phone Calls Made by SWG	Comments
Collin	Eddie Baggs	7/10/00	7/21/00	7/20/00	Replied 7/10/00, but never arrived @ FNI by mail. Faxed completed survey to FNI 7/21/00.
Cooke	Craig Rosenbaum	7/10/00	7/11/00	N/A	Arrived prior to the deadline. No phone call was necessary.
Dallas	Milton Arnold	7/5/00	7/10/00	N/A	Arrived prior to the deadline. No phone call was necessary.
Denton	Rebecca Parker	7/7/00	7/20/00	N/A	Arrived prior to the deadline. No phone call was necessary.
Ellis	Gary Stanford	None	None	7/20/00	Refuses to participate in survey. Thinks projections are always wrong and a waste of time.
Fannin	Ricky Maxwell	7/27/00	7/29/00	7/20/00	Did not receive by mail. SWG faxed survey and letter to him 7/20/00.
Freestone	Shane McLellanon			7/21/00 7/24/00	Original letter sent to Wendi Green who forwarded it to Shane. Shane is out until 7/24/00. Called Shane on 7/24 and he had not seen survey. Survey was faxed to him on 7/24/00.
Grayson	Mark Arnold	7/5/00	7/10/00	N/A	Arrived prior to the deadline. No phone call was necessary.
Henderson	Patrick Hirsch			7/20/00	Out until 8/2/00
Jack	David Harmonson			7/20/00	He received it 7/19 and will complete it.
Kaufman	Ralph Davis			7/20/00 7/26/00	SWG left message with assistant 7/20/00. Ralph returned message on 7/26 saying he had not received the survey. Survey and letter were faxed to him on 7/26/00.
Navarro	Mike Gage	9/6/00	9/6/00	7/20/00	SWG left message on voice mail 7/20/00.
Parker	Jon Green	9/8/00	9/8/00	7/20/00	SWG left message with assistant 7/20/00.
Rockwall	Todd Williams			7/20/00	SWG left message with assistant 7/20/00.
Tarrant	John South	7/7/00	7/10/00	N/A	Arrived prior to the deadline. No phone call was necessary
Wise	Gary Clayton			7/20/00	He had received it, but does not know when he will have time to respond.

N/A = not applicable

blank = information has not been received by FNI

Table X-2
Summary of Livestock Survey

County	Survey Questions										
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**
Collin	20,000 acres grazing & 165,000 acres hay products	105,000 acres	5,000 acres	65,000	Yes, decline.	Yes, decline.	Yes. Two at 30 acres each.	No.	No.	Yes.	Yes.
Cooke	172,248 acres of pasture & 214,214 acres of open range	131,300 acres	56,000 acres (roads, towns, etc.)	55,000 beef cows; 8,000 dairy cows; 5,000 horses.	No.	No. (New ponds being built)	Not that we know of.	Yes, due to lack of surface water. Mostly in western part of county.	Wells are becoming increasingly expensive to drill ($15 per foot).	Most of brush in remote areas.	Yes.
Dallas	35,000 acres	25,000 acres	Unknown.	15,000	Decrease as land use changes.	X	Unknown.	Some smaller pastures were short earlier in the year, but they have adequate supply now.	X	N/A	X
Denton	250,000 acres pasture; 200,000 acres of this pasture being used	69,323 acres	50,000 acres	52,000 head of cattle & horses	1% increase each year.	Need will increase with more ranches that are smaller.	Yes. There are approximately 1000 of 0.25-2 acres in size.	Yes, particularly in the northern half of the county. Shortages due to loss of groundwater. Wells drying up due to development and golf courses. Major problem in Argyle area.	Provided Annual Increment Report.	Yes, approximately 500 and the benefit is positive.	Yes.
Ellis	-	-	-	-	-	-	-	-	-	-	-
Fannin	379,796 acres pasture; about 90% of the livestock pasture currently being used	150,000 acres	3,000 acres	71,800	No.	No.	No, but many SCS structures are old and will need repair in the future.	Currently no - due to the recent rainfall.	Groundwater is of poor quality for agricultural purposes.	Yes, approximately 100 people and there has been some benefit.	Yes.
Freestone											
Grayson	X	X	X	100,000 total	Yes.	Yes.	Yes, 10-20 of varying sizes.	Yes, county-wide shortage of surface water.	X	Yes, 10 people using 5,000 acres of brush control. Brush control as conservation method has been beneficial for surface water and forage production.	Yes.
Henderson											
Jack											
Kaufman											
Navarro											
Parker											
Rockwall											
Tarrant	90,000 acres (most of it being used)	50,000 acres	Urban sprawl is at its all-time high.	50,000 cattle & 25,000 horses	Less cattle. Possibly more horses.	Rely more on community water systems.	No, but lots of homeowners have small ponds and are seeking management information.	Most shortages are due to lack of surface water.	No.	Not that he is aware of.	X
Wise											

X = Question not answered in survey.
N/A = Not Applicable.
- = Not Available

Survey Questions:
1 - How many acres of livestock pasture are in your county? How many acres of livestock pasture are currently being used?
2 - How many acres of cultivated land are in your county?
3 - How many acres of idle land are in your county?
4 - What is the approximate number of head of livestock within your county?
5 - Do you project any change in livestock over the next five years?
6 - Do you project any change in the water needs for livestock over the next five years?
7 - In your opinion, are there any Natural Resource Conservation Service (formerly Soil Conservation Service) structures that need to be repaired? If so, approximately how many and what are the sizes of these structures?
8 - Is anyone in your county experiencing water shortages for livestock? If so, are the shortages occurring in particular areas or county-wide? Are these shortages due to lack of surface water or lack of groundwater?
9 - Is there any other information you think might be helpful in this planning effort?
10 - Is anyone in your county practicing brush control for the purpose of water conservation? If so, how many people are using this method and how many acres of land are involved? In your opinion, has there been any benefit from brush control as a water conservation measure?
11 - Would you like additional information on the Regional planning effort?

Note: a. Ellis County refuses to participate in this survey.

Table X-3
Estimated Livestock Water Demands

County	Type of Livestock	Number of Head of Livestock [a.]	Water Demands per Head of Livestock [b.] (Gals per Day per Head)	Estimated 2000 Livestock Demands (1,000 gals/year)	Estimated 2000 Livestock Demands (Acre-Feet/Year)	TWDB 2000 Projected Livestock Demands (Acre-Feet/Year)	Difference (CEA Less TWDB Estimates) (Acre-Feet/Year)	Percent Difference
Collin	cattle	65,000	15	355,875	1,092	1,095	-3	-0.3
Cooke	beef cattle	55,000	15	301,125	924			
	dairy cattle	8,000	60	175,200	538			
	horses	5,000	15	27,375	84			
Subtotal		68,000		503,700	1,546	2,256	-710	-31.5
Dallas	cattle	15,000	15	82,125	252	718	-466	-64.9
Denton	horses & cattle	52,000	15	284,700	874	1,256	-382	-30.4
Ellis [c.]	-	-	-	-	-	1,287	-	-
Fannin	cattle	71,800	15	393,105	1,206	1,017	189	18.6
Grayson	cattle	100,000	15	547,500	1,680	1,143	537	47.0
Navarro	cattle	53,000	15	290,175	890	1,331	-441	-33.1
Parker	cattle	71,000	15	388,725	1,193	1,290,-97	-97	-7.5
Tarrant	cattle	50,000	15	273,750	840			
	horses	25,000	15	136,875	420			
Subtotal		75,000		410,625	1,260	852	408	47.9

- = Not Available

Notes: a. Current headcount of livestock provided by County Extension Agents through the Region C livestock survey.

Table X-1
Contacts for Livestock Survey

County	Contact Person	Date Completed by CEA	Date Received at FNI	Date(s) of Phone Calls Made by SWG	Comments
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Freestone	Shane McLellanon			7/21/00 7/24/00	Original letter sent to Wendi Green who forwarded it to Shane. Shane is out until 7/24/00. Called Shane on 7/24 and he had not seen survey. Survey was faxed to him on 7/24/00.
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Parker	Jon Green			7/20/2000	SWG left message with assistant 7/20/00.
Rockwall	Todd Williams			7/20/2000	SWG left message with assistant 7/20/00.
Tarrant	John South	7/7/2000	7/10/2000	N/A	Arrived prior to the deadline. No phone call was necessary
Wise	Gary Clayton			7/20/2000	He had received it, but does not know when he will have time to respond.

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Cooke	172,248 acres of pasture & 214,214 acres of open range	131,300 acres	56,000 acres (roads, towns, etc.)	55,000 beef cows; 8,000 dairy cows; 5,000 horses.	No.	No. (New ponds being built)	Not that we know of.	Yes, due to lack of surface water. Mostly in western part of county.	Wells are becoming increasingly expensive to drill ($15 per foot).	Most of brush in remote areas.	Yes.
Dallas	35,000 acres	25,000 acres	Unknown.	15,000	Decrease as land use changes.	X	Unknown.	Some smaller pastures were short earlier in the year, but they have adequate supply now.	X	N/A	X
Denton	250,000 acres pasture; 200,000 acres of this pasture being used	69,323 acres	50,000 acres	52,000 head of cattle & horses	1% increase each year.	Need will increase with more ranches that are smaller.	Yes. There are approximately 1000 of 0.25-2 acres in size.	Yes, particularly in the northern half of the county. Shortages due to loss of groundwater. Wells drying up due to development and golf courses. Major problem in Argyle area.	Provided Annual Increment Report.	Yes, approximately 500 and the benefit is positive.	Yes.
Ellis	-	-	-	-	-	-	-	-	-	-	-
Fannin	379,796 acres pasture; about 90% of the livestock pasture currently being used	150,000 acres	3,000 acres	71,800	No.	No.	No, but many SCS structures are old and will need repair in the future.	Currently no - due to the recent rainfall.	Groundwater is of poor quality for agricultural purposes.	Yes, approximately 100 people and there has been some benefit.	Yes.
Freestone											
Grayson	X	X	X	100,000 total	Yes.	Yes.	Yes, 10-20 of varying sizes.	Yes, county-wide shortage of surface water.	X	Yes, 10 people using 5,000 acres of brush control. Brush control as conservation method has been beneficial for surface water and forage production.	Yes.
Henderson											
Jack											
Kaufman											
Navarro											
Parker											
Rockwall											
Tarrant	90,000 acres (most of it being used)	50,000 acres	Urban sprawl is at its all-time high.	50,000 cattle & 25,000 horses	Less cattle. Possibly more horses.	Rely more on community water systems.	No, but lots of homeowners have small ponds and are seeking management information.	Most shortages are due to lack of surface water.	No.	Not that he is aware of.	X
Wise											

X = Question not answered in survey.
N/A = Not Applicable.
- = Not Available

Survey Questions:
1 - How many acres of livestock pasture are in your county? How many acres of livestock pasture are currently being used?
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Note: a. Ellis County refuses to participate in this survey.

Table X-3
Estimated Livestock Water Demands

County	Type of Livestock	Number of Head of Livestock [a.]	Water Demands per Head of Livestock [b.] (Gals per Day per Head)	Estimated 2000 Livestock Demands (1,000 gals/year)	Estimated 2000 Livestock Demands (Acre-Feet/Year)	TWDB 2000 Projected Livestock Demands (Acre-Feet/Year)	Difference (CEA Less TWDB Estimates) (Acre-Feet/Year)	Percent Difference
Collin	cattle	65,000	15	355,875	1,092	1,095	-3	-0.3
Cooke	beef cattle	55,000	15	301,125	924			
	dairy cattle	8,000	60	175,200	538			
	horses	5,000	15	27,375	84			
Subtotal		68,000		503,700	1,546	2,256	-710	-31.5
Dallas	cattle	15,000	15	82,125	252	718	-466	-64.9
Denton	horses & cattle	52,000	15	284,700	874	1,256	-382	-30.4
Ellis [c.]	-	-	-	-	-	1,287	-	-
Fannin	cattle	71,800	15	393,105	1,206	1,017	189	18.6
Grayson	cattle	100,000	15	547,500	1,680	1,143	537	47.0
Tarrant	cattle	50,000	15	273,750	840			
	horses	25,000	15	136,875	420			
Subtotal		75,000		410,625	1,260	852	408	47.9

- = Not Available

Notes:
a. Current headcount of livestock provided by County Extension Agents through the Region C livestock survey.
b. Water demand information provided by the Texas Water Development Board.
c. Ellis County refuses to participate in this survey.

APPENDIX Y

REGION C NEWSLETTERS

APPENDIX Z

PRESS COVERAGE OF REGION C WATER PLAN

"Wise County water users, suppliers invited to meeting Wednesday to discuss future." *Wise County Messenger*. March 28, 1999.

Nichols, Skip. "It won't be Wise to be without enough water." *Wise County Messenger*. April 8, 1999.

Tackel, Phyllis. "TWDB Regime Holds First Meeting." *The Bridgeport Index*. April 8, 1999.

Welker, Shawn. "Fannin County fears others after its water." *Herald Democrat*. April 11, 1999.

"North Texas counties, cities to be affected by state mandated water plan." *Wylie News.* April 28, 1999.

"Water plan likely to have statewide impact, says planner." *Cedar Creek Pilot*. April 29, 1999.

Kellar, Brad. "Water groups move ahead to secure plans that will meet future water needs." *Herald Banner*. May 4, 1999.

Bass, Gary. "HC approves its share of water administration. Regional planning groups mandated by Texas Legislature." *Cedar Creek Pilot*. May 8, 1999.

"Summit to address water, drought issues." *Lewisville Leader*. June 12, 1999.

"Future water use needs examined." *Azle News.* June 24, 1999.

Reynolds, Annette. "Rain hasn't washed away need for water planning, officials say; Denton County summit explores long-term requirements, resources." *Dallas Morning News.* July 1, 1999.

Reynolds, Annette. "Water planning called critical; Officials urge conservation, forethought at summit." *Dallas Morning News.* July 1, 1999.

"Region C Water Planning Group Meeting." *Cedar Creek Pilot*. August 7, 1999.

Pearce, Matt. "Regional water board meets locally, discusses common issues." *Corsicana Daily Sun*. August 10, 1999.

Shay, Kevin J. "Future cost of treating water in Arlington." Arlington Morning News. August 8, 1999.

Smith, Jack. "Let's unite over a glass if water." *Fort Worth Star-Telegram*. August 16, 1999.

"Sept. 14 meeting to address regional water planning; Public comment invited from 16-county area." *Azle News.* September 2, 1999.

"The Public is Invited to Attend; Regional water planning session scheduled." *Focus on the News.* September 5, 1999.

"Public meeting to address state mandated regional water planning set in Grand Prairie." *Wylie News.* September 8, 1999.

"The Public is Invited to Attend; Regional water planning session scheduled." *Focus on the News.* September 9, 1999.

"Sept. 14 Public Meeting Looks at Regional Water Planning." *Oak Cliff Tribune*. September 9, 1999.

Shay, Kevin J. "Panel works to ensure long-term water supply; East Texas sites could help meet growing demand." *Dallas Morning News.* September 15, 1999.

Hodgson, Bill. "Willow Park forum attendees hear Region C water plan." *The Community News.* February 10, 2000.

Closser, Stacey R. "Careful planning protects the water supply." *Business Journal*. February 18, 2000.

Evans, Glann. "Planners make studies for area's water demands; Groups must map needs up to 2050." *News Journal.* February 20, 2000.

Hodgson, Bill. "Options examined at Willow Park water forum." *The Community News.* February 24, 2000.

"S'town to host water session." *Azle News.* March 2, 2000.

"City draws 80 to water forum." *The Springtown Epigraph*. March 23, 2000.

"Bell attends Region C meeting." *Rockwall Success*. March 31, 2000.

Loftis, Randy Lee and Terri Langford. "Water plan called way to guard city : but experts say gas spill didn't make lake unsafe." *The Dallas Morning News.* April 9, 2000.

Langford, Terri and Brenda Rodriguez. "Water limits scrapped as Lake Tawakoni pollution drops." *The Dallas Morning News.* April 12, 2000.

Kellar, Brad. "Government, industry officials to discuss area's future water needs." *Herald Banner*. April 23, 2000.

"Texas Water." *The Dallas Morning News.* May 14, 2000.

Graves, Vicki. "Fannin commissioners seek inclusion in water planning." *Herald Democrat*. May 16, 2000.

Ledbetter, Kay. "Mesa Water releases plan: Company identifies routes to pump groundwater from Panhandle region." *Amarillo Globe-News.* May 17, 2000.

Easton, Pam. "Oilman plans to buy water rights: West Texas project 'doable,' study says." *Fort Worth Star-Telegram*. May 18, 2000.

Parks, Scott. "Water investors eye liquid assets: Demand creates a market for aquifer rights in Texas." *The Dallas Morning News.* May 21, 2000.

Parks, Scott. "Water brokers' plans are fluid." *The Dallas Morning News.* May 21, 2000.

Rundle, Ann. "Going with the flow: Regional Planning Group viewing proposed reservoir sites to fill water need for 50 years." *Daily Tribune*. May 21, 2000.

Shaw, John. "Ralph Hall Lake gets boost from water plan." *Daily Favorite.* May 21, 2000.

Shaw, John. "Fannin County water plan okayed by region: Ladonia's Ralph Hall Lake, two lakes near Bonham included in 50-year water development project." *Daily Favorite.* May 21, 2000.

Johnson, Johnny. "Water planning group to propose 13 reservoir sites." *Daily Sentinel*. May 24, 2000.

Ross, Benny. "Sherman City Council looks at new BMX site." *Herald Democrat*. May 28, 2000.

Rundle, Ann. "Quest for water: Area planners to ask State Legislature to protect 17 Northeast Texas sites for possible reservoirs." *Daily Tribune.* June 25, 2000.

Palmer, Bob. "It's Like This: Overdue salute." *Daily Tribune.* June 25, 2000.

Flick, David. "Summer 2000 shaping up as the 3rd straight scorcher." *The Dallas Morning News.* July 21, 2000.

"Water Woes: Throckmorton's problem illustrates why long-range planning is crucial." *Fort Worth Star-Telegram*. July 21, 2000.

Cox, Bob. "Oil & Water: Oilman's plan to export groundwater stirs controversy." *Fort Worth Star-Telegram*. July 30, 2000.

"Texas Water: There's nothing like a good plan to withstand a bad drought." Fort Worth Star-Telegram. August 15, 2000.

Langford, Terri. "$4 billion in water projects needed to slake region's thirst by 2050, planning group says." *The Dallas Morning News.* August 22, 2000.

Langford, Terri. "D-FW area to need $4 billion in water projects, report says." *Dallas Morning News.* August 22, 2000.

Crafts, Dawn. "Group to look at region's water needs." *Herald Democrat*. August 27, 2000.

"Water planning group prepares for hearing." *News-Mirror*. August 28, 2000.

"Air and Water: A new state council could become a valuable brain trust in helping clean up Texas." *Fort Worth Star-Telegram*. August 29,2000.

Clark, Dorothy. "Lake is at 56% of capacity, TRWD urges conservation." *The Bridgeport Index*. August 31, 2000.

Clark, Dorothy. "Water Planning Group slates Springtown strategy session." *The Bridgeport Index*. August 31, 2000.

Editorials. "Texas Water: Here's how Texas can face the future." *The Dallas Morning News.* September 3, 2000.

"Our water addiction." *The Dallas Morning News.* September 3, 2000.

Appleton, Roy and Terri Langford. "Wanted: a serious soaking: Next rain's impact on area will hinge on timing, duration." *The Dallas Morning News.* September 3, 2000.

Jones, John. "You city folks are really something." *The Dallas Morning News.* September 4, 2000.

Shaffer, Josh. "Reservoir proposed to supply Metroplex: 62,000-acre lake would be one of the largest in Texas." *Fort Worth Star-Telegram*. September 8, 2000.

Dennis, Debra. "Reservoir-plan hearings set: Project involving 16 counties may become leading source of water." *The Dallas Morning News.* September 9, 2000.

"Water needs for next 50 years will be discussed at hearing." *Fort Worth Star-Telegram*. September 14, 2000.

Ayala, Eva-Marie. “Group discusses area’s water needs.” *Fort Worth Star-Telegram*. September 15, 2000.

“Wise water meeting set for Thursday.” *Wise County Messenger*. September 17, 2000.

Loftis, Randy Lee. “Close-up Thursday: environment. The drought is forcing wildlife out of its habitat and into suburbia in search of water. And plants are having a hard time of it, too.” *The Dallas Morning News.* September 14, 2000.

Editorial. “A new regional program should rate everyone’s attention.” *Fort Worth Star-Telegram*. September 13, 2000.

Autrey, Mike. “Water Conservation.” *The Dallas Morning News.* September 25, 2000.

Mahon, Scott. “Regional plan shows growing need for water.” *Wise County Messenger*. September 24, 2000.

“Daybook: Tuesday (Grand Prairie).” *Fort Worth Star-Telegram*. September 25, 2000.

“Water Plan: North Texans must think anew about water needs.” *The Dallas Morning News.* September 26, 2000.

Strassman, Neil. “E. Texas lake plan draws environmental opposition.” *Fort Worth Star-Telegram*. September 27, 2000.

“Comments sought on area’s water needs, strategies.” *Wylie News.* September 27, 2000.

Owen, Wayne. “Regional Water Plan Nears Completion.” *Upstream/Downstream (A Quarterly Publication of the Tarrant Regional Water District).* October, 2000.

Graves, Vicki. “Fannin judge explains county’s water sources, projects on tap.” *Herald Democrat*. November 3, 2000.

Sorrels, Wayne. “Battle Brewing over groundwater: Some rural residents support formation of conservation district.” *Denton Record-Chronicle.* November 5, 2000.

APPENDIX AA

WRITTEN COMMENTS ON THE *INITIALLY PREPARED REGION C WATER PLAN* AND RESPONSES

Appendix AA

Written Comments on the *Initially Prepared Region C Water Plan* and Responses

The written comments on the *Initially Prepared Region C Water Plan* and the responses of the committee are included in this appendix. The response to each written comment follows the written comment. The written comments are addressed in the order in which they were received:

1. Mike Autrey, August 29, 2000.
2. Ernesto Rodriguez, Collin County Citizens Coalition, September 12, 2000.
3. Bonnie Wenk, Collin County Citizens Coalition, September 12, 2000.
4. Ed Motley, Chiang Patel and Yerby, Inc., Commenting for Upper Trinity Regional Water District, September 13, 2000.
5. Stephen W. McCullough, City Manager, City of Irving, September 14, 2000.
6. Ed Motley, Chiang, Patel and Yerby, Inc., commenting for Upper Trinity Regional Water District, September 21, 2000.
7. Water Prospecting, commenting for Fannin County Water Group, September 24, 2000.
8. Derrell Hall, Fannin County Judge, Wayne Ryser, President, Bois d'Arc MUD, and John Welch, Engineer, September 21, 2000.
9. Thomas E. Taylor, Executive Director, Upper Trinity Regional Water District, September 22, 2000. (Mr. Taylor attached a copy of written comment 6 above.)
10. Eddy D. Edmondson, Texas Nursery and Landscape Association, September 22, 2000.
11. Ralph G. Yoas, P.E., September 24, 2000.
12. Frances Pelley, President, and John Ockels, Ph. D., Environmental Planner, Texoma Council of Governments, September 25, 2000.
13. Billy Howe, Associate Legislative Director, Texas Farm Bureau, September 25, 2000.
14. Ron McCuller, Utility Services Director, City of Grand Prairie, September 25, 2000.
15. Ron McCuller, Utility Services Director, City of Grand Prairie, September 25, 2000.
16. Stephen W. McCullough, City Manager, City of Irving, September 26, 2000.
17. Thomas E. Taylor, Executive Director, Upper Trinity Regional Water District, September 22, 2000. (Mr. Taylor attached copies of Comments 4, 6, and 9 above.)

18. Bonnie Wenk, Collin County Citizens Coalition, September 26, 2000. (Ms. Wenk attached a copy of Comment 2 above.)

19. Rita Beving, Conservation Co-Chair and Don Callaway, Conservation Consultant, Sierra Club, Dallas Regional Group, September 26, 2000.

20. Claude E. King, City Manager, City of Lewisville, September 26, 2000.

21. M.L. Myers, September 28, 2000.

22. Mike Eastland, Executive Director, North Central Texas Council of Governments, September 28, 2000.

23. Tom Shotwell, September 28, 2000.

24. Brenda Rankin, September 28, 2000.

25. Susan Combs, Commissioner, Texas Department of Agriculture.

26. A.J. Testa, Clear Creek Watershed Authority, September 29, 2000.

27. Mike Wuller, Technical Director, Best Maid Products, September 29, 2000.

28. Maudine Presley, September 30, 2000.

29. Horace Groff, Grayson County Judge, received October 2, 2000.

30. Donald W. Callaway, Dallas Sierra Club, October 2, 2000. (Mr. Callaway attached a copy of written comment 19 above.)

31. Douglas Caroom, Bickerstaff, Heath, Smiley, Polan, Kever, and McDaniel L.L.P., commenting for Dallas Counties Park Cities Municipal Utility District, October 2, 2000.

32. Sherry Quirk and Christine Ryan, commenting for Rayburn County Electric Cooperative, Inc., and Tex-La Electric Cooperative of Texas, Inc., October 3, 2000.

33. Myron J. Hess, Counsel, National Wildlife Federation, Gulf States Natural Resource Center, October 3, 2000.

34. Thomas J. Cloud, Jr., Field Supervisor, U.S. Fish and Wildlife Service, October 3, 2000.

35. Philip D. English, President and CEO, Broventure Company, Inc., October 11, 2000.

36. Forrest E. Reeves, Assistant Administrator, Office of Corporate Operations, Southwest Power Administration, October 12, 2000.

37. Tommy Knowles, Ph.D., P.E., Deputy Executive Administrator, Office of Planning, Texas Water Development Board, October 12, 2000.

38. Tommy Knowles, Deputy Executive Administrator, Office of Planning, Texas Water Development Board, November 22, 2000.

39. Texas Parks and Wildlife Department, November 28, 2000.

40. Tommy Knowles, Ph.D., P.E., Deputy Executive Administrator, Office of Planning, Texas Water Development Board, November 29, 2000.

41. Tommy Knowles, Ph.D., P.E., Deputy Executive Administrator, Office of Planning, Texas Water Development Board, November 29, 2000.

1. Mike Autrey, August 29, 2000.

Response: The plan includes an approximate 15 percent overall reduction in per capita municipal use due to conservation. This represents a reduction in water use of about 375,000 acre-feet per year. The plan also recommends further study of conservation opportunities in the next five year planning cycle (page 5.9). Individual water suppliers are responsible for the implementation of specific conservation measures. The plan includes suggested state funding to analyze existing water conservation programs and determine effectiveness of various measures (pages 6.11-6.12).

2. Ernesto Rodriguez, Collin County Citizens Coalition, September 12, 2000.

Response: It is virtually impossible to find a location for a landfill in Region C that does not drain to a water supply reservoir. Landfills have not been a significant source of pollution in Texas reservoirs. The siting of landfills is not a part of the regional water planning process. Permits for landfills are issued by the Texas Natural Resource Conservation Service, and water quality concerns are considered by TNRCC in permitting.

3. Bonnie Wenk, Collin County Citizens Coalition, September 12, 2000.

Response: It is virtually impossible to find a location for a landfill in Region C that does not drain to a water supply reservoir. Landfills have not been a significant source of pollution in Texas reservoirs. The siting of landfills is not a part of the regional water planning process. Permits for landfills are issued by the Texas Natural Resource Conservation Service, and water quality concerns are considered by TNRCC in permitting.

The Texas Natural Resource Conservation Commission also issues permits for wastewater discharges. The impact of discharges on water quality is considered in the permitting process.

4. Ed Motley, Chiang Patel and Yerby, Inc., Commenting for Upper Trinity Regional Water District, September 13, 2000.

Response:

a. The Region C Water Planning Group does not agree that the definition of a major water provider should be changed.

b. The final report includes a table comparing supplies and demands for the Upper Trinity Regional Water District.

c. Current plans call for Dallas Water Utilities' share of water from Marvin Nichols I Reservoir to be delivered to Lake Lewisville. That water will be available to meet the needs of Dallas Water Utilities customers in Denton County, including a portion of the Upper Trinity Regional Water District demands.

d. As indicated in the text, Tables 4.5 and 5.8 provide different information. Table 4.5 compares supply and demand considering only currently connected and available supplies. Table 5.8 includes sources made available as a result of proposed water management strategies. Water management strategies include the connection of existing sources and the development of new sources.

e. The comment is incorrect. It is possible to use more than the firm yield during a single year or even several years in a drought, as long as use is less than the firm yield in other years and the average use during the critical period does not exceed the firm yield of the supply. The proposed operation reflects Dallas Water Utilities policy, is consistent with their water rights, is supported by detailed operation studies conducted by Dallas Water Utilities staff, and is reflected in the most recent planning update for Dallas Water Utilities developed by Chiang, Patel, and Yerby.

f. If year 2000 demands reach the level projected for peak year use in the plan, they will in fact be met by overdrafting of Dallas' existing sources. This will cease to be necessary when the construction of transmission facilities to bring water from Lake Chapman and Lake Fork Reservoir is complete. Construction of these facilities is currently underway.

g. The amount shown is the additional firm yield provided by the term permit, as determined by Dallas Water Utilities staff.

h. Dallas Water Utilities water use from Marvin Nichols I Reservoir has been changed to 112,000 acre-feet per year in the final report.

i. The text has been changed to recommend additional funding for the state participation fund.

j. The sources for Argyle have been changed.

k. Return flows do not provide a permanently reliable source of supply unless they are controlled by the supplier because of the possibility of direct reuse before discharge. The levels of supply shown represent a conservatively low estimate of the reliable supply.

5. Stephen W. McCullough, City Manager, City of Irving, September 14, 2000.

Response: The response to all of Irving's comments (including the letter dated September 26, 2000) is reflected in the final text.

a. As required by the Texas Water Development Board, "Dallas County Other" refers to population and municipal demand not associated with a specific municipality.
b. The final report has been changed to reflect Irving's participation in Marvin Nichols I Reservoir.
c. The final report has been changed to reflect Oklahoma as an alternative source of supply for Irving.
d. The final report has been changed to reflect the reuse of Chapman water as an alternative source of supply for Irving.
e. The expiration date of Irving's contract with Dallas has been corrected. Water supply figures for Lake Chapman do reflect the lake's firm yield.
f. Legislative and regulatory recommendations are included in Section 6 of the plan.
g. The comment is incorrect. The imports listed in Section 3 already have permits for interbasin transfers, and junior priority for interbasin transfers applies only to new interbasin transfer rights. It is beyond the scope of this plan to address the impact to Irving if their existing rights suddenly cease to be available.
h. The plan includes development of new supplies for Dallas Water Utilities so that water is available to meet the needs of DWU's retail and wholesale customers, including Irving.
i. As indicated in the text, Tables 4.5 and 5.8 provide different information. Table 4.5 compares supply and demand considering only currently connected and available supplies. Table 5.8 includes new sources connected and made available by proposed water management strategies.
j. The text has been changed for additional clarity (page 4.6).
k. Comment noted; no changes made.
l. No indirect reuse is authorized until a permit is granted. Irving's reuse project from Lake Chapman is not currently authorized because Irving does not have a permit from TNRCC. All reuse projects listed on pages 5.12 and 5.13 for which specific plans have been developed are for indirect reuse. The last five programs identified (for which specific plans are not yet known) could be for direct or indirect reuse.
m. The final plan shows Irving as an individual participant in Marvin Nichols I Reservoir.
n. The final plan shows Irving as an individual participant in Marvin Nichols I Reservoir.
o. The text has been changed for clarity (page 5.55).

6. Ed Motley, Chiang, Patel and Yerby, Inc., commenting for Upper Trinity Regional Water District, September 21, 2000.

Response: The final report includes a table showing the supply and demand for the Upper Trinity Regional Water District (Table 5.21). The table does not exactly match the table attached to Mr. Motley's letter.

7. Water Prospecting, commenting for Fannin County Water Group, September 24, 2000.

Response:

a. Only municipal water use is directly responsive to population, and municipal water use in Fannin County does increase over the planning period. The 1996 historical demand is higher than the projected 2000 demand because of higher than projected irrigation, livestock, and steam electric demands. Water use projections will be reviewed in the next five-year planning cycle, and projections for Fannin County will be given special attention in that effort.

b. The available groundwater supply data are given by county and by aquifer. Groundwater use in Grayson County is much greater than use in Fannin County and exceeds the available supply. The detailed studies provided by Water Prospecting show limitations in groundwater supply for southwestern Fannin County that do not appear in county-wide numbers.

c. The final plan includes a regional surface water supply system for Fannin County.

d. The Ralph Hall project would reduce the yield of the Marvin Nichols I project, which is a major component of the Region C and Region D plans.

e. The Upper Bois d'Arc Creek project is listed as alternative management strategy for Fannin County (page 5.64).

8. Derrell Hall, Fannin County Judge, Wayne Ryser, President, Bois d'Arc MUD, and John Welch, Engineer, September 21, 2000.

Response: Flooding issues will be examined in greater detail during permitting and design of the reservoir.

9. Thomas E. Taylor, Executive Director, Upper Trinity Regional Water District, September 22, 2000. (Mr. Taylor attached a copy of written comment 6 above.)

Response: The final report includes a table showing the supply and demand for the Upper Trinity Regional Water District (Table 5.21).

10. Eddy D. Edmondson, Texas Nursery and Landscape Association, September 22, 2000.

Response: Comment noted; no changes made. The plan does not include a definition of agriculture.

11. Ralph G. Yoas, P.E., September 24, 2000.

Response:

a. We do not agree that such legislation is desirable.
b. We do not agree that such legislation is desirable.
c. Development of specific requirements for landscape irrigation is the responsibility of local governments and water suppliers.
d. Mandating model development policies is not an appropriate role for the Region C Water Planning Group. It is the responsibility of local governments.
e. Flood control is not part of the current study.

12. Frances Pelley, President, and John Ockels, Ph. D., Environmental Planner, Texoma Council of Governments, September 25, 2000.

Response:

a. Population and water use projections will be reviewed in the next five-year planning cycle, and projections for Cooke and Grayson Counties will be given special attention in that effort.

b. A discussion of local enforcement of water pollution laws has been added to the final report (page 1.50).

c. The citizen water quality monitoring program is not directly related to the current water planning effort.

d. The reliable water supply for TXU's Valley Lake, which supplies the Savoy plant, is based on water from Lake Texoma.

13. Billy Howe, Associate Legislative Director, Texas Farm Bureau, September 25, 2000.

a. We disagree with the comment. It should be noted that the interbasin transfers in the Region C plan do not originate in areas with significant water use for irrigation.

b. The recommendation of collecting data on agricultural water use in the survey is included at the urging of agricultural representatives on the Region C Water Planning Group. The purpose is to allow better planning to meet agricultural needs in Region C and elsewhere in the state. The Region C Water Planning Group does not consider agriculture to be a marginal industry and has not made such a statement at any point in the planning process.

14. Ron McCuller, Utility Services Director, City of Grand Prairie, September 25, 2000.

Response: The data in the tables came from the Texas Water Development Board. Based on input from the City of Grand Prairie, we have removed Grand Prairie from Table 1.21 and adjusted the values in Table 1.22.

15. Ron McCuller, Utility Services Director, City of Grand Prairie, September 25, 2000.

Response: The Texas Water Development Board (TWDB) had specific guidelines for modifying their original projections of population and water use. TWDB has already approved population and water use projections for this planning cycle. All cities in the region, including Grand Prairie, were provided draft projections and the opportunity to comment on those projections before they were submitted to the TWDB for approval. Population and water use projections will be reviewed in the next five-year planning cycle, and projections for Grand Prairie will be given special attention in that effort.

16. Stephen W. McCullough, City Manager, City of Irving, September 26, 2000.

Response: The final plan treats the City of Irving as an independent participant in Marvin Nichols I Reservoir, with Oklahoma water and reuse as alternative sources of supply. A table of demand and supply for Irving is included in Appendix V. The capital costs for Irving's water management strategies are included in Table 5.20 for Dallas County.

17. Thomas E. Taylor, Executive Director, Upper Trinity Regional Water District, September 22, 2000. (Mr. Taylor attached copies of Comments 4, 6, and 9 above.)

Response:

a. The final report provides additional detail about supplies and demands for the Upper Trinity Regional Water District (pages 5.55 and 5.56).

b. The final report includes a table of supplies and demands for Upper Trinity Regional Water District. UTRWD's supply does not include a 10 percent surplus supply for contingencies (Table 5.21). Changing the regional plan to provide a ten percent surplus for all suppliers would require development of significant additional water supplies. The suggestion has merit and will be considered in the next 5-year round of planning.

c. The amount purchased from Dallas Water Utilities by UTRWD is not divided by source. The text of the plan has been edited to clarify that Dallas Water Utilities' share of water from Marvin Nichols I Reservoir will be delivered to Lake Lewisville (pages 5.33, 5.35 and 5.56).

d. It is possible to use more than the firm yield during a single year in a drought, as long as use is less than the firm yield in other years and the average use during the critical period does not exceed the firm yield of the supply. The proposed operation reflects Dallas Water Utilities policy, is consistent with their water rights, is supported by detailed operation studies conducted by Dallas Water Utilities staff, and is reflected in the most recent planning update for Dallas Water Utilities developed by Chiang, Patel, and Yerby.

e. Changes have been made in the text of the report in response to suggestions of UTRWD. The final text does not correspond exactly to UTRWD's suggested wording.

18. Bonnie Wenk, Collin County Citizens Coalition, September 26, 2000. (Ms. Wenk attached a copy of Comment 2 above.)

Response: Noted. See the response to written comment number 2 above.

19. Rita Beving, Conservation Co-Chair and Don Callaway, Conservation Consultant, Sierra Club, Dallas Regional Group, September 26, 2000.

Response:

a. Noted. Attendance at meetings held in the evening was not appreciably higher than attendance at meetings held during the day.

b. Comment noted; no changes made.

c. The 15 percent reduction in municipal water use in the draft Region C plan represents a substantial reduction in water use of about 375,000 acre-feet per year.

d. Data on historic per capita water use by community are available and were considered in the development of water use projections. They were not included in the report due to space limitations.

e. The plan recommends development of a state water conservation education program aimed at elected officials and water utility managers (page 6.12). Development of education programs for individual water users should be the responsibility of local water suppliers.

f. The data provided in the report on types of water use represent the information currently available. Information dividing residential and commercial water use is not available.

g. The statement is incorrect. The plan recommends development of a state water conservation education program aimed at schools and at elected officials and water utility managers (page 6.12).

h. Recommended planning efforts in the next five years include additional analysis of water conservation programs. Historical per capita use data by community are available from the Texas Water Development Board.

i. The plan recommends development of a state water conservation education program aimed at elected officials and water utility managers (page 6.12).

j. Noted.

k. Population growth projections and timing for each community are already available in the plan.

l. Preparation of water rate studies is a local responsibility and not properly an element of a regional water plan.

m. The plan recommends local consideration of groundwater districts in areas of heavy groundwater use.

20. Claude E. King, City Manager, City of Lewisville, September 26, 2000.

Response: It is possible to use more than the firm yield during a single year in a drought, as long as use is less than the firm yield in other years and the average use during the critical period does not exceed the firm yield of the supply. The proposed operation reflects Dallas Water Utilities policy, is consistent with their water rights, is supported by detailed operation studies conducted by Dallas Water Utilities staff, and is reflected in the most recent planning update for Dallas Water Utilities developed by Chiang, Patel, and Yerby.

21. M.L. Myers, September 28, 2000.

Response: Comments noted; no changes made. Desalination of seawater is not a practical source of water supply for Region C because of the cost of desalination, the distance from the sea, and the high cost of transmitting the water.

22. Mike Eastland, Executive Director, North Central Texas Council of Governments, September 28, 2000.

Response: Noted. These ideas will be further considered in the water conservation studies recommended for Phase II of the plan.

23. Tom Shotwell, September 28, 2000.

Response:

a. The Region C Water Planning Group made significant efforts to make the public aware of the planning process and allow for public participation.

b. The report is long and necessarily creates large files on the Internet.

c. The current operation of the West Fork reservoirs by Tarrant Regional Water District is consistent with their water rights.

d. The Texas Natural Resource Conservation Commission is responsible for oversight of surface water rights in Texas.

24. Brenda Rankin, September 28, 2000.

Response: Water suppliers use water from Lake Bridgeport to supply a large part of Wise County. It may be a necessary to extend a supply from one of these suppliers to the area described. Water supply reservoirs are necessarily drawn down under drought conditions.

25. Susan Combs, Commissioner, Texas Department of Agriculture.

Response: Noted. The final report will note the Texas Agriculture Statistics Service as a possible source of survey data on water use.

26. A.J. Testa, Clear Creek Watershed Authority, September 29, 2000.

Response: Noted.

27. Mike Wuller, Technical Director, Best Maid Products, September 29, 2000.

Response:

a. The Region C Water Planning Group does not have the authority to control groundwater pumping. The report does recommend that local water users consider forming groundwater districts in areas of heavy groundwater use.

b. Subsidence due to groundwater overdrafting has not generally been a problem in Region C.

c. The planned Marvin Nichols I Reservoir in east Texas will develop enough water to more than satisfy projected needs in Region D through 2050 after water is exported to Region C. Development of this source will be a cooperative effort of regions C and D.

28. Maudine Presley, September 30, 2000.

Response: Water supply reservoirs are necessarily drawn down under drought conditions. Taste and odor concerns should be addressed by the local water supplier.

29. Horace Groff, Grayson County Judge, received October 2, 2000.

Response: Population and water use projections will be reviewed in the next five-year planning cycle, and projections for Grayson County will be given special attention in that effort.

30. Donald W. Callaway, Dallas Sierra Club, October 2, 2000. (Mr. Callaway attached a copy of written comment 19 above.)

Response: See response to written comment 19.

31. Douglas Caroom, Bickerstaff, Heath, Smiley, Polan, Kever, and McDaniel L.L.P., commenting for Dallas Counties Park Cities Municipal Utility District, October 2, 2000.

Response:

a. The plan addresses projected water supply shortages for every water user group in Region C, regardless of population or water use.

b. The final plan includes a discussion of implementation. Recommended legislative, administrative, and regulatory changes are discussed in Section 6 of the plan.

c. The proposed overdraft operation reflects Dallas Water Utilities policy, is consistent with their water rights, is supported by detailed operation studies conducted by Dallas Water Utilities staff, and is reflected in the most recent planning update for Dallas Water Utilities developed by Chiang, Patel, and Yerby.

d. The reuse projects planned by Trinity River Authority are outlined in the regional plan.

e. The change in Grapevine's plans came too late to be included in this version of the regional water plan. It will be considered in the update of the plan in the next five years.

f. The text will be changed to include the District as a possible participant (page 5.32). However, current water use projections do not reflect a need for additional water (beyond current sources) for the District.

g. The recommendations for legislative, regulatory, and administrative changes were included in the draft plan and were available for review.

32. Sherry Quirk and Christine Ryan, commenting for Rayburn County Electric Cooperative, Inc., and Tex-La Electric Cooperative of Texas, Inc., October 3, 2000.

Response:

a. The inclusion of the unpermitted yield of Lake Texoma was a specific requirement of the Texas Water Development Board. The plan notes that this supply would not be available without conversion of current hydropower storage to water conservation storage.

b. The cost of storage in Lake Texoma in the plan is based on previous conversions to water conservation storage. The issue of compensation to hydropower customers, if any, will be addressed as projects are developed.

c. The caption is incorrect. Congress has already approved reallocation of up to 150,000 acre-feet of storage to municipal supply. Although reallocation of additional storage is not recommended in the plan, it could be accomplished by an additional Act of Congress.

33. Myron J. Hess, Counsel, National Wildlife Federation, Gulf States Natural Resource Center, October 3, 2000.

Response:

a. The plan includes an overall 15 percent savings in per capita municipal water use due to conservation, resulting in a 375,000 acre-foot per year reduction in projected year 2050 demand.

b. The plan was developed using existing information. A detailed environmental review of all water supply alternatives considered is not required at this time, could not have been completed in the time and budget available, and would not have been a prudent use of limited resources. Additional studies will be prepared for individual projects as permitting and development continue. Section 357.5 (e)(4) sets forth as a goal that "water management strategies that balance cost effectiveness and environmental sensitivity are considered and pursued." The plan fulfills that requirement.

c. In comparing projected per capita demands by region, it is important to consider differences in climate and other factors influencing water use. For example, Region H (the Houston area) receives considerably more rainfall than Region C, and the use of water for landscape irrigation is therefore much lower than in Region C.

d. It is important to consider actual water use figures in projecting future water use. The plan does include significant reductions in per capita water use over time due to conservation measures. (See Figure 5.1.)

e. The plan includes recommendations for additional studies of water conservation efforts in the next five-year planning cycle (page 5.9). This would include study of water use in the recent dry years, consideration of water conservation programs already in place in Region C, review of programs elsewhere in the state to determine what conservation measures have been most successful, and recommendations for conservation activities in Region C.

f. In the opinion of the Region C Water Planning Group, drought contingency measures are important planning tools for all water suppliers. They provide protection in the event of water supply shortages, but they are not a reliable way to meet growing demands.

g. The Region C Water Planning Group does not control the lawful exercise of existing water rights. Examination of the effects of existing projects on streamflows was not a part of this study and is not required.

h. Additional detailed studies of streamflow impacts will be conducted for individual projects as they are permitted and developed. The use of planning criteria to cover instream flow needs for this study was appropriate and consistent with TWDB planning guidelines.

i. Comment noted; no changes made.

j. The statement in the report is clearly correct, based on USGS streamflow gaging records extending back to early 1900s. There is no indication that flows from seeps and springs were ever near the current level of treated wastewater return flows on the Trinity River below the Metroplex.

k. Comment noted; no changes made. The information provided is adequate to allow decisions on the reliable water supply available from seeps and springs.

l. Comment noted; no changes made.

m. Comment noted; no changes made.

n. The title of the figure is corrected in the final report.

o. The final plan includes specific reuse projects that are planned for Region C. It is possible that additional reuse projects will be developed in the future. Most of the return flows in Region C (about 90 percent) are downstream of all major reservoirs in the region and will not serve to supplement reservoir yields.

p. Comment noted; no changes made. The plan includes recommendation for specific education efforts for public officials and water utility personnel (page 6.12) as well as studies of water conservation efforts statewide to determine effective measures (page 6.11). This issue will also be studied in the next 5-year planning effort.

q. It is not valid to assume that public concern about the functionality of low flow toilets is necessarily the result of ignorance. If the devices are functional and effective, the proposed study will demonstrate that.

r. Comment noted; no changes made. In the opinion of the Region C Water Planning Group, drought contingency measures are important planning tools for all water suppliers. They provide protection in the event of water supply shortages, but they are not a reliable way to meet growing demands.

s. Comment noted; no changes made.

t. Use of additional water from Lake Texoma and use of groundwater from the Carrizo-Wilcox aquifer were both examined in the plan, and neither was adopted as a recommended strategy. Water from Lake Texoma requires blending with other supplies or desalination because of water quality concerns. This makes the supply very expensive. Based on input from local water suppliers, it is not clear that the amount of water shown to be available in Freestone County could actually be developed. The upcoming groundwater availability modeling efforts of the Texas Water Development Board may help to clarify this question.

u. Comment noted; no changes made.

v. Comment noted; no changes made.

w. Comment noted; no changes made.

x. Comment noted; no changes made.

y. A list of the stream segments recommended by Texas Parks and Wildlife Department for designation as ecologically unique has been added to Section 6.5.

z. Comment noted; no changes made.

aa. Comment noted; no changes made.

bb. Comment noted; no changes made.

cc. The recommendation is to end cancellation for ten years of non-use for municipal water rights, water rights for steam-electric power generation, water rights associated with major reservoirs, and/or water rights included as long-term supplies in an approved regional water plan.

dd. The law indicates that "a state agency or political subdivision of the state may not obtain a fee title or an easement that would: (1) destroy the unique ecological value of a river or stream segment designated by the legislature [as a river or

stream segment of unique ecological value]; or (2) significantly prevent the construction of a reservoir designated by the legislature [as a site of unique value for the construction of a reservoir]." In the opinion of the Region C Water Planning Group, actions that would "significantly prevent the construction of a reservoir" are reasonably limited and easy to define. In the opinion of the Region C Water Planning Group, actions that would "destroy the unique ecological value of a river or stream segment" are not reasonably limited or easy to define. We have recommended that the legislature clarify what specific actions are controlled by the designation of a river or stream segment of unique ecological value.

ee. A list of the stream segments recommended by Texas Parks and Wildlife Department for designation as ecologically unique has been added to Section 6.5.

ff. Comment noted; no changes made.

gg. Comment noted; no changes made.

hh. Comment noted; no changes made.

34. Thomas J. Cloud, Jr., Field Supervisor, U.S. Fish and Wildlife Service, October 3, 2000.

Response:

a. Noted.
b. The table is updated in the final report.
c. Noted.
d. Comment noted; no changes made.
e. Comment noted; no changes made.
f. Comment noted; no changes made.
g. Mitigation costs are included in project cost estimates.

35. Philip D. English, President and CEO, Broventure Company, Inc., October 11, 2000.

Response: Noted.

36. Forrest E. Reeves, Assistant Administrator, Office of Corporate Operations, Southwest Power Administration, October 12, 2000.

Response: The cost of storage in Lake Texoma in the plan is based on previous conversions to water conservation storage. The issue of compensation to hydropower customers, if any, will be addressed as projects are developed.

37. Tommy Knowles, Ph.D., P.E., Deputy Executive Administrator, Office of Planning, Texas Water Development Board, October 12, 2000.

Response:

a. A discussion of implementation strategies has been added as Section 7.5 of the final report.

b. The primary new interbasin transfers included in the Region C Plan are from the proposed Marvin C. Nichols Reservoir in the Sulphur Basin to the Trinity Basin and from the proposed Lower Bois d'Arc Reservoir in the Red Basin to the Trinity Basin. A discussion of the need for water from Marvin Nichols Reservoir in the basin of origin and the proposed receiving basin has been added to Section 5.5 of the report (page 5.33). A discussion of the need for water from Lower Bois d'Arc Reservoir in the basin of origin and the proposed receiving basin has been added to Section 5.5 of the report (page 5.43).

38. Tommy Knowles, Ph.D., P.E., Deputy Executive Administrator, Office of Planning, Texas Water Development Board, November 22, 2000.

Response: Section 5.8, dealing with consistency with the regional water plan, has been added to the plan (page 5.91).

39. Texas Parks and Wildlife Department, November 28, 2000.

Response:

a. We have added this to the text (page 1.5).

b. The level of detail requested is not covered in the scope or the budget for this planning effort.

c. The information provided is intended to show the potential magnitude of impacts on species of special concern. The plan was developed using existing information. A detailed environmental review of all water supply alternatives considered is not required at this time, could not have been completed in the time and budget available, and would not have been a prudent use of limited resources. Additional studies will be prepared for individual projects as permitting and development continue.

d. A list of the stream segments recommended by Texas Parks and Wildlife Department for designation as ecologically unique should have been in the report and has been added to Section 6.5. The three additional segments listed have been added to page 1.42.

e. Comment noted; no changes made.

f. At the level of reuse proposed in this plan, return flows from the Dallas-Fort Worth Metroplex will be much higher in 2050 than they are now, even with proposed reuse projects.

g. Section 1 is supposed to deal with a description of Region C. Environmental impacts of Marvin Nichols I (and other proposed projects) are discussed elsewhere in the report. Additional studies will be prepared for individual projects as permitting and development continue.

h. In comparing projected per capita demands by region, it is important to consider differences in climate and other factors influencing water use. The comment is incorrect in suggesting that the plan includes an increase in water use due to increasing per capita water use. The plan in fact projects that per capita municipal water use will decrease over time in Region C as conservation efforts overcome the historical trend of increasing use.

i. The plan includes recommendations for additional studies of water conservation efforts in the next five-year planning cycle (page 5.9). This would include study of water use in the recent dry years, consideration of water conservation programs already in place in Region C, review of programs elsewhere in the state to determine what conservation measures have been most successful, and recommendations for conservation activities in Region C. These recommendations can be considered in those additional studies.

j. In the opinion of the Region C Water Planning Group, drought contingency measures are important planning tools for all water suppliers. They provide protection in the event of water supply shortages, but they are not a reliable way to meet growing demands.

k. This part of the report is a general discussion of reuse projects. Specific reuse projects included in the recommended plan are discussed, evaluated, and costed elsewhere in the report. The projects listed in Table 5.1 are included in currently

available supplies in TWDB Table 4 (Appendix I) if facilities to allow use of the permitted supplies have been developed. This is consistent with TWDB regulations on the development of the tables.

l. The cost and feasibility of the reallocation of storage in Lake Texoma is investigated in the report. The use of 10,000 acre-feet per year by North Texas MWD is a recommended alternative. Development of additional supplies (beyond the recommended 10,000 acre-feet per year) from Lake Texoma would be expensive due to the need for desalination. Development of additional supplies is in the plan as an alternative strategy.

m. We agree that a project-by-project evaluation is needed for the proposed water management strategies. The plan was developed using existing information due to the limited time and budget available. Additional studies will be prepared for individual projects as permitting and development continue. The costs per acre-foot of supply in Table 5.3 have been revised to reflect the impact of releases to meet the Consensus Environmental Criteria. Transmission costs are not included in Table 5.3 but were developed for the alternatives selected for detailed analysis. Mitigation costs are included in cost estimates. Upper Bois d'Arc Creek has been added to the table. Existing information for Upper Bois d'Arc Creek and Ralph Hall Reservoirs is limited.

n. No major brush control projects are recommended for Region C. The projects contemplated are small projects to address local needs.

o. The evaluation of desalination was inadvertently omitted from Table Q-1 and has been added to the final report. In general, desalination must be coupled with other strategies that obtain the water to be desalinated.

p. Aquifer storage and recovery has not been shown to be a viable source for significant water supplies in Region C. The report recommends continued study of this strategy, which can be adopted if studies demonstrate that it is desirable.

q. Temporary overdrafting of groundwater sources currently occurs in parts of Region C. In all cases, the plan recommends developing alternative sources as soon as possible to reduce current overdrafting. Studies of specific springs are not included in the scope and budget for this planning effort.

r. We have added a discussion of wellhead management to the report (page 5.28).

s. It is appropriate to maintain a reserve supply throughout the planning period to allow for unexpected increases in demand or for delays in developing new supplies. We do not agree that the total supply for Region C should be less than the level reflected in the report.

t. Mitigation costs are included in project costs. For Marvin Nichols I Reservoir, mitigation costs are based on the maximum management option requirements presented by Frye and Curtis.

u. This comment is entirely inconsistent with the plan of development shown for North Texas MWD and with the comment on Marvin Nichols I Reservoir above. The plan calls for full utilization of Lower Bois d'Arc Creek reservoir by North Texas MWD. The projected total surplus for North Texas MWD in 2050 is 57,154 acre-feet per year in 2050, about 10 percent of its projected demand.

v. Comment noted; no changes made.

w. Comment noted; no changes made.

x. Comment noted; no changes made.

y. Comment noted; no changes made. We agree that water quality should be a consideration in the TWDB studies.

z. The consultant apologizes for omitting the list of segments recommended by TPWD. It should have been included and has been added to the final report in Section 6.5. The law indicates that "a state agency or political subdivision of the state may not obtain a fee title or an easement that would: (1) destroy the unique ecological value of a river or stream segment designated by the legislature [as a river or stream segment of unique ecological value]; or (2) significantly prevent the construction of a reservoir designated by the legislature [as a site of unique value for the construction of a reservoir]." In the opinion of the Region C Water Planning Group, actions that would "significantly prevent the construction of a reservoir" are reasonably limited and easy to define. In the opinion of the Region C Water Planning Group, actions that would "destroy the unique ecological value of a river or stream segment" are not reasonably limited or easy to define. We have recommended that the legislature clarify what specific actions are controlled by the designation of a river or stream segment of unique ecological value.

aa. Comment noted; no changes made. Most of the impacts discussed are mentioned in the draft report.

bb. We will add mention of the recommendation by TPWD for designation of Bois d'Arc Creek as a unique stream segment. The other impacts discussed were included in the draft report.

cc. Comment noted; no changes made. Muenster Reservoir already has a state water right permit.

dd. The recommended designation of Lake Tehuacana as a unique site for reservoir construction is consistent with 31 TAC Section 357.9, which specifically mentions supplies needed "to meet needs beyond the 50-year planning period."

ee. Comment noted; no changes made.

ff. Comments noted; no changes made.

gg. Temporary overdrafting of groundwater sources currently occurs in parts of Region C. In all cases, the plan recommends developing alternative sources as soon as possible to reduce current overdrafting. It should be noted that neither the Region C Water Planning Group nor any other agency currently has authority to control groundwater use in Region C.

hh. At the level of reuse proposed in this plan, return flows from the Dallas-Fort Worth Metroplex will be much higher in 2050 than they are now, even with proposed reuse projects. The plan was developed using existing information due to the limited time and budget available. Additional studies will be prepared for individual projects as permitting and development continue.

ii. We agree that a project-by-project evaluation is needed for the proposed water management strategies. The plan was developed using existing information due to the limited time and budget available. Additional studies will be prepared for individual projects as permitting and development continue.

40. Tommy Knowles, Ph.D., P.E., Deputy Executive Administrator, Office of Planning, Texas Water Development Board, November 29, 2000.

Response:

a. Table 3 has been changed as requested. Counties 101, 144, 146, 170, 187, 204, 288, and 236 are not in Region C, and the Trinity River Authority does not meet demands in those counties from supplies in Region C.
b. Tables 4 and 5 have been adjusted to be consistent.
c. Table 5 has been changed as requested.
d. Table 6 has been changed as requested.
e. Table 7 has been changed as requested.
f. Table 8 has been changed as requested.
g. Table 11 has been changed as requested.
h. Table 12 has been changed as requested.
i. Table 13 has been changed as requested.

41. Tommy Knowles, Ph.D., P.E., Deputy Executive Administrator, Office of Planning, Texas Water Development Board, November 29, 2000.

Response:

a. The cost estimates in Appendix R have been revised to include estimated costs for purchasing raw water, treated water, and treated wastewater for reuse.

b. A section on the effect of the plan on navigation has been added as Section 5.9 of the plan.

c. The numbers have been changed to be consistent in the Executive Summary and Sections 1 and 2.

d. The text has been changed as suggested.

e. A discussion of the difference in yield has been added to Section 5.5 (page 5.32) of the draft report. Region C and the North East Texas Region will work to reconcile the different assumptions on the operation of Marvin Nichols I Reservoir and the resulting differences in yield during the next 5-year planning cycle.

f. The review of existing water rights is described in Section 1.4 of the report (Tables 1.10, 1.11, and 1.12). Some additional language has been added to page 3.1 to describe the analysis of existing water rights and the review of hydrologic information. Appendix I also discusses existing water rights and historical information in the presentation of supplies available to the region.

g. A section on consistency with the regional water plan has been added as Section 5.8 of the plan.

h. The suggested change has been made.

i. The suggested text has been added.

j. The depth to water and well depth have been rounded to the nearest foot.

k. The suggested change has been made.

APPENDIX BB

ORAL COMMENTS ON THE *INITIALLY PREPARED REGION C WATER PLAN* AND RESPONSES

APPENDIX BB
ORAL COMMENTS ON THE *INITIALLY PREPARED REGION C WATER PLAN* AND RESPONSES

The oral comments on the *Initially Prepared Region C Water Plan* and the responses of the committee are included in this appendix. The response to each oral comment follows the oral comments shown in *italics.*

1. Ernesto Rodriguez, Collin County Citizens Coalition (9/12)

Response: See written comment number 2 and response.

2. Bonnie Wenk, Collin County Citizens Coalition (9/12)

Response: See written comment number 3 and response.

3. Rita Beving, Dallas Sierra Club (9/12)

Ms. Beving told the group that the Dallas Sierra Club would be submitting formal written comments in the near future. She summarized her concerns regarding water quality in existing lakes. She noted that the Corps of Engineers is planning to put a hotel, two marinas, and a golf course on Lake Lewisville, and she is concerned about the runoff from these facilities lowering the water quality in the lake. She also noted that North Texas Municipal Water District has recently obtained a permit to dump treated wastewater into Lake Lavon, which already has high levels of atrazine. Ms. Beving mentioned that a proposed landfill in McKinney poses a threat of contaminating Lake Lavon should a leak occur.

Response: See response to written comment number 19. It should be noted that atrazine is not generally found in treated wastewater. It is an herbicide and is generally associated with agricultural runoff.

4. Tom Taylor, Upper Trinity Regional Water District (UTRWD) (9/14)

Denton County is growing very fast. Mr. Taylor complimented the Region C Water Planning Group and their consultants on their planning effort. He asked the planning group for additional clarity. He explained that UTRWD was not named a major water provider and not as much information is included for Denton County. He requested clarification on the amount of water needed for Denton County and UTRWD. What is needed to meet these future needs and how much will it cost? Mr. Taylor requested that a chart explaining the current sources, projected demands, and future sources be included for UTRWD. He told the group that he had already provided these comments in writing to Tom Gooch. He also noted that Chiang, Patel and Yerby may have additional comments.

Response: See responses to written comments number 4, 6, 9, and 17.

5. Phil Boyd, City of Lewisville (9/14)

Mr. Boyd began by thanking the Region C Water Planning Group and Texas Water Development Board for their efforts. Lewisville is partly located in Dallas and Denton Counties and gets all of its water supply from Dallas Water Utilities. Half of the water supply comes from raw water out of Lake Lewisville and the rest is DWU treated water. Mr. Boyd is concerned about the use of overdrafting

DWU's reservoirs as a source of dependable supply. DWU is depending on a source that cannot and should not be part of their supply. He related this as a planned water shortage for DWU customers. This method of reservoir operation could prematurely reduce water supply in the lake. He also noted that he supports UTRWD and their comments.

Response: See response to written comment number 20.

6. Bonnie Wenk, Collin County Citizens Coalition (9/14)

Ms. Wenk stated that she had submitted her comments in writing and did not have anything else to say.

Response: See written comment number 3 and response.

7. Pete Patel, Chiang, Patel and Yerby, Inc. (9/14)

Mr. Patel stated that he would like to see clarifications for Denton County. He would like to see Marvin Nichol I be included as a future supply for Denton County. This should be included in the DWU figures. UTRWD would like this to be corrected in the DWU figures. Mr. Patel stated that the rest of his comments would be provided in writing to the committee.

Response: See response to written comment number 4.

8. James Dickens, City of Irving (9/14)

Mr. Dickens stated that Irving is the largest wholesale municipal customer of DWU. He feels that Irving is more than just a customer. He told the group that Irving participated with North Texas MWD to build Lake Chapman. Irving is currently connecting Lake Lavon to Lake Lewisville to bring over the Lake Chapman water. Irving is in a position to provide water to others. He would like to see reuse, Oklahoma water, and other projects listed as options for Irving to participate. Mr. Dickens requested more specific options for Irving.

See response to written comments number 5 and 16.

9. Andrew Chastain-Howley, Water Prospecting, for Fannin County Water Planning Group (9/19)

Mr. Chastain-Howley provided written comments and summarized them for the group. He expressed his gratitude to the Regional Water Planning Group for their efforts. He stated that he was representing Fannin County, and they are concerned about the inconsistencies regarding Fannin County in the report. He expressed his concern that the population and water demand projections are underestimated for Fannin County. He stated that the water demand in 1996 was

17,500 acre-feet and in 2000 it was estimated to be 12,100 acre-feet. He did not think that was correct. In TWDB Table 7, he expressed concern about the lack of shortages listed for Fannin County. He explained that Fannin County does have groundwater shortages and the aquifer boundaries should be used to determine groundwater availability instead of the county boundaries. Mr. Chastain-Howley requested that a surface water system be developed for Fannin County, similar to those developed for Cooke and Grayson Counties. He also requested that Table P-2 be adjusted to say that the Ralph Hall Reservoir is "consistent" with other regions and to include Upper Bois d'Arc Creek Lake.

See response to written comment number 7.

10. John Welch of Telephone, Texas (9/19)

Mr. Welch stated that Lower Bois d'Arc Creek Lake poses a serious threat of flooding to the City of Bonham. He strongly urged Freese and Nichols to reconsider the rainfall intensity used in their 1984 report on page 43. The lake level recommended in this study is at elevation 540 feet. Anything above 540 feet poses a threat of flooding upstream. Mr. Welch stated that he had seen flooding in areas when Lake Bonham was at elevation 550 feet with the gates open during rain events.

Flooding issues will be examined in greater detail during permitting and design of the reservoir.

11. Tom Shotwell, Runaway Bay, Texas (9/21)

Mr. Shotwell began by saying the project was impressive. However, he was concerned about the cut-off date for public comments being October 3rd stating that does not give people enough time to make intelligent comments. He had two main concerns:

1. *Cost of Pumping Water: It is less expensive to release water from Lake Bridgeport to downstream users than to pump water up from East Texas. Mr. Shotwell thinks that the Tarrant Regional Water District considers the water in Lake Bridgeport to be "free" water. TRWD doesn't pump uphill if they can release water from upstream for less money.*
2. *Value of Property: Mr. Shotwell was concerned about the value of property on Lake Bridgeport due to the wild gyrations in the lake levels. He believes that an economic bias has been built into the plan due to TRWD taking water from Lake Bridgeport to maintain property values around their Tarrant County lakes. Lake Bridgeport water levels are decreasing, but Eagle Mountain, Benbrook, and Worth are almost full. Wise County is his tax area, but Tarrant County taxes the other three lakes. Don't build economic bias into the plan.*

Response: Comment noted; no changes made. Tarrant Regional Water District's operation of the reservoirs is consistent with their water rights. Lake Bridgeport was built by TRWD as a water supply reservoir.

12. Rollins Bilby, Rancher below Lake Bridgeport (9/21)

Mr. Bilby has lived in this area through the historical droughts. He believes that another dam is needed along the Trinity River. The amount of water that went over Lake Worth spillway between 1990 and 1996 should have been captured. He stated that we should be conserving all the water we can for Texas.

Response: Construction of an additional reservoir on the West Fork of the Trinity River would create little additional yield. The storage in Lake Bridgeport, Eagle Mountain Lake, and Lake Worth is sufficient to develop the potential yield of the watershed.

13. Blake English, President, Upper Trinity Regional Water District (UTRWD) (9/26)

Mr. English began by saying he appreciated the planning effort. The plan reflects a need for water. Nearly one million people are planned for Denton County. The plan is unclear as to how much the water will cost or where the supply will come from. The plan needs a road map for UTRWD. Any good plan should identify how much water is needed, where the water comes from, and how much it will cost. Mr. English submitted Tom Taylor's comments in writing.

Response: See responses to written comments number 4, 6, 9, and 17.

14. Buddy Kindle, property owner in East Texas (9/26)

Mr. Kindle does not want Region C to come to Region D for new water. Region C needs to get additional water from the ocean. No one has considered the ecological impacts of these new reservoirs. You should follow California's lead and begin using ocean water. Mr. Kindle owns land in East Texas. He is concerned about the morality in the project. He stated that it is not right to take someone's land. If you can't afford the water for your pools and fountains, then you don't need them. Endangered species and plants are located within the Marvin Nichols I site, but no one seems to care. During droughts, you won't have enough water in these new reservoirs. Go to the ocean for a dependable water supply. A friend recently told me that if you want to do anything in Dallas, just tell them they can't do it. In the future, we will dispose of our sewage in more efficient manners and the shortage won't be as severe. Mr. Kindle hopes that the planning group comes up with a better plan for Texas, Dallas, and the nation.

Response: Desalination of seawater and transmission to Region C would be extremely expensive due to the high cost of desalination and the distance from the ocean.

15. Dave Moldal, National Wildlife Federation (9/26)

An effective water plan must balance all of the water needs. The National Wildlife Federation believes that protecting the wildlife and its habitat is essential to a successful state water plan. The plan fails to cover:

- *Effects of new projects on instream flows*
- *Conservation measures beyond those required by law. The per capita use of 200 gallons per person per day is too high and encourages wasteful practices.*
- *Drought management measures*
- *Habitat destruction related to the Marvin Nichols I project. This site contains 22 listed species, 30,000 acres of irreplaceable bottomland hardwoods, and the excellent habitat for water fowl.*
- *Adverse effects on a stream segment that the Texas Parks and Wildlife Department recommended as unique. The Lower Bois d'Arc Creek site will impact 16,400 acres of land and will impact the Caddo National Grasslands.*
- *Recommendations for or a discussion of streams that have ecological values.*

The plan does not consider population limits for the area. The plans projections are unnecessarily high. The plan includes essentially no conservation. Marvin Nichols I and Lower Bois d'Arc Creek are not justified. The National Wildlife Federation will be submitting written comments.

Response: See response to written comment number 33. It is incorrect to say that the plan includes essentially no conservation. The plan includes a reduction in water use due to conservation of about 375,000 acre-feet per year.

16. Don Callaway, Dallas Sierra Club (9/26)

The plan does not address and needs to determine what the adequate instream environmental flows are in the region. The plan needs to identify threatened and endangered species. Conservation is essentially negligible (15%). The region can do better. If you increase your conservation to 20%, then you won't need Marvin Nichols I. Data is not included in the plan regarding per capita use for communities. This needs to be identified so they can plan. The plan needs conservation education, and it should be aimed at public officials. You should consider rainwater harvesting, and this should be a strong conservation strategy. Water reuse efforts are outstanding in Region C. You have to plan for population growth, but you need to consider air quality. Each community needs to be able to plan for the growth they want and the timing. The water rate cost benefits should be estimated for each community. Roberts County groundwater idea is outside of

the planning area, but you need to talk to the legislature about controlling or managing groundwater.

Response: See response to written comment number 19. The plan includes a reduction in water use due to conservation of about 375,000 acre-feet per year, which is not negligible. Increasing savings due to conservation from the 15 percent of municipal use already in the plan to 20 percent would reduce demand by a further 125,000 acre-feet per year, which would not replace the 495,300 acre-feet per year provided to Region C by Marvin Nichols I.

17. Rita Beving, Dallas Sierra Club (9/26)

Ms. Beving thanked the Texas Water Development Board for having the planning meetings, but she added that the meetings should have been held in the evenings so more of the working public could some to make comments. The plan needs more water education efforts. She thanked Don Callaway for his efforts. She told the planning group that they needed to quantify the environmental flows for fish and the environmental needs. Have you done all you can do to maximize conservation efforts? Conservation efforts are one-third the cost of new supplies. The plan should get down to community usages and needs. Conservation efforts should be used to manage the overall daily demand, not just for drought management. A similar program should be developed for water conservation education that has been developed for air quality education. Water rate incentives, or disincentives, should be included for abusers of water. Have you done enough in regards to reuse? Population and distribution should be carefully planned – known as smart growth. The quality of life is being destroyed in the outlying areas. You need to be realistic about the growth that this state and area can sustain. The groundwater supplies need to be sustained and not overused to the point of permanent damage. T. Boone Pickens and others plan to buy water rights to sell groundwater. Where does this stop? It's some of these things that need to be addresses in the water plan. Ms. Beving will be submitting written comments.

Response: See response to written comment number 19.

18. Bonnie Wenk, Collin County Citizens Coalition (9/26)

Ms. Wenk read Mr. Ernest Rodriguez's letter.

See response to written comment number 2.

19. David Gray, Texas Committee on Natural Resources (9/26)

Mr. Gray thanked the RWPG for their planning efforts. Despite the lack of rain, the City of Dallas has not been rationing water. You need to define

environmental flows for environmental needs. If you cut the per capita use in half, you would have all the water you need. We won't have to worry about the population increasing if the air quality is bad and the traffic is grid-locked. Marvin Nichols I is unnecessary. Conservation is much cheaper and is environmentally friendly. It also saves tax payers money. You should consider advanced conservation.

Response: Comment noted; no changes made.

20. John Williams, Stream Natural Resources (9/26)

Mr. Williams lives in the area that would be flooded by Marvin Nichols I. He has spoken with Tony Williams of Region D on numerous occasions. He has called, emailed, and written Terrace Stewart of Region C, but Mr. Williams has not heard back from Terrace. Sooner or later you will have to deal with me. Wouldn't it be better to meet on friendly terms?

Response: Comment noted; no changes made.

21. Gary Jackson, (Region D, but representing himself) (9/26)

Mr. Jackson appreciates the planning efforts of Region C. Region D has had a variety of public meetings as has Region C. As for the economics of saltwater, saltwater has to be treated and is very costly. Lake Tawakoni is the result of a drought. Mr. Jackson commends the Senate, the House of Representatives, and the Governor on the bottom-up plan. There are three ways to get water: out of the sky, from the ground, and from a reservoir. Most of the rain ends up in the Gulf of Mexico which is not a bad thing, but we need more water up here. Region D has three recommended reservoirs in the Sabine Basin in their plan: Carl Estes, Waters Bluff, and Carthage. Mr. Jackson commended the committee for their diligence. He invited everyone to attend the Region D public hearing in Gilmer on September 27th.

Response: Comment noted; no changes made.

22. Charles Allen, Trinity River Expeditions (9/26)

Mr. Allen's business is based on a free-flowing Trinity River. Population in the area is not infinitely sustainable. Desalination needs to be considered for this area.

Response: Comment noted; no changes made.