

TEXAS WATER DEVELOPMENT BOARD

REPORT 65

TEMPERATURE OF TEXAS STREAMS

By

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U.S. Geological Survey

Prepared by the U.S. Geological Survey
in cooperation with the
Texas Water Development Board

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TABLE OF CONTENTS

	Page
INTRODUCTION.....	1
SIGNIFICANCE OF TEMPERATURE DATA.....	1
COLLECTION OF DATA.....	2
PRESENTATION OF DATA.....	2
SELECTED REFERENCES.....	7
TEMPERATURE RECORDS.....	8
<u>Arkansas River basin</u>	
Canadian River near Amarillo.....	8
Canadian River near Canadian.....	9
Palo Duro Creek near Spearman.....	11
Wolf Creek at Lipscomb.....	12
<u>Red River basin</u>	
Tierra Blanca Creek above Buffalo Lake near Umbarger.....	12
Tierra Blanca Creek below Buffalo Lake near Umbarger.....	13
Tule Creek near Silverton.....	13
Prairie Dog Town Fork Red River near Lakeview.....	14
Prairie Dog Town Fork Red River near Childress.....	14
Red River near Quanah.....	15
Goesbeck Creek at State Highway 283 near Quanah.....	15
Salt Fork Red River near Hedley.....	16
Salt Fork Red River near Wellington.....	17
North Fork Red River near Shamrock.....	18
Sweetwater Creek near Kelton.....	19
Quitaque Creek near Quitaque.....	20
Pease River near Vernon.....	21
Red River near Burkburnett.....	22
North Fork Wichita River near Paducah.....	23
North Fork Wichita River near Truscott.....	23
South Fork Wichita River near Benjamin.....	24
Wichita River near Seymour.....	24
Wichita River near Mabelle.....	25
Beaver Creek near Electra.....	25
Wichita River at Wichita Falls.....	26
Little Wichita River near Archer City.....	27
Little Wichita River near Henrietta.....	28
Little Wichita River near Ringgold.....	28
Red River near Terral, Okla.....	29
Red River near Gainesville.....	31
Red River at Denison Dam near Denison.....	32
Bois D'Arc Creek near Randolph.....	33
Pecan Bayou near Clarksville.....	33
South Sulphur River near Cooper.....	33
North Sulphur River near Cooper.....	34
Sulphur River near Talco.....	35
Whiteoak Creek near Talco.....	36

TABLE OF CONTENTS (Cont'd.)

	Page
Cypress Creek near Pittsburg.....	37
Boggy Creek near Daingerfield.....	38
Little Cypress Creek near Ore City.....	38
Little Cypress Creek near Jefferson.....	39
Frazier Creek near Linden.....	39
<u>Sabine River basin</u>	
Cowleech Fork Sabine River at Greenville.....	40
South Fork Sabine River near Quinlan.....	40
Sabine River near Emory.....	41
Sabine River near Mineola.....	41
Lake Fork Creek near Quitman.....	42
Big Sandy Creek near Big Sandy.....	43
Sabine River near Gladewater.....	44
Rabbit Creek at Kilgore.....	45
Sabine River near Tatum.....	45
Murvaul Bayou near Gary.....	46
Socagee Creek near Carthage.....	46
Sabine River at Logansport, La.....	47
Tenaha Creek near Shelbyville.....	48
Sabine River near Milam.....	49
Palo Gaucho Bayou near Hemphill.....	50
Sabine River below Toledo Bend near Burkeville.....	50
Sabine River near Bon Wier.....	51
Big Cow Creek near Newton.....	52
Cypress Creek near Buna.....	53
Sabine River near Ruliff.....	54
Cow Bayou near Mauriceville.....	55
<u>Neches River basin</u>	
Kickapoo Creek near Brownsboro.....	55
Neches River near Neches.....	56
Neches River near Alto.....	56
Neches River near Diboll.....	57
Piney Creek near Groveton.....	57
Neches River near Rockland.....	58
East Fork Angelina River near Cushing.....	58
Mud Creek near Jacksonville.....	59
Angelina River near Alto.....	59
Angelina River near Lufkin.....	60
Attoyac Bayou near Chireno.....	61
Angelina River near Zavalla.....	62
Ayish Bayou near San Augustine.....	62
Angelina River at Horger.....	63
Neches River at Town Bluff.....	64
Neches River at Evadale.....	65
Village Creek near Kountze.....	66
<u>Trinity River basin</u>	
North Creek near Jacksboro.....	67
West Fork Trinity River near Jacksboro.....	67
Big Sandy Creek near Bridgeport.....	68
West Fork Trinity River near Boyd.....	69
Clear Fork Trinity River near Aledo.....	70

TABLE OF CONTENTS (Cont'd.)

	Page
Clear Fork Trinity River near Benbrook.....	71
Clear Fork Trinity River at Fort Worth.....	72
West Fork Trinity River at Fort Worth.....	73
Marine Creek at Fort Worth.....	74
Big Fossil Creek at Haltom City.....	74
West Fork Trinity River at Grand Prairie.....	75
Mountain Creek near Cedar Hill.....	76
Walnut Creek near Mansfield.....	76
Mountain Creek at Grand Prairie.....	77
Elm Fork Trinity River near Muenster.....	77
Elm Fork Trinity River near Sanger.....	78
Isle du Bois Creek near Pilot Point.....	79
Clear Creek near Sanger.....	80
Little Elm Creek near Aubrey.....	80
Elm Fork Trinity River near Lewisville.....	81
Denton Creek near Justin.....	82
Denton Creek near Roanoke.....	82
Denton Creek near Grapevine.....	83
Elm Fork Trinity River near Carrollton.....	84
Bachman Branch at Dallas.....	85
Turtle Creek at Dallas.....	85
Trinity River at Dallas.....	86
White Rock Creek at Keller Springs Road, Dallas.....	87
White Rock Creek at Greenville Avenue, Dallas.....	87
White Rock Creek at Scyene Road, Dallas.....	88
Trinity River below Dallas.....	88
Honey Creek near McKinney.....	89
East Fork Trinity River near McKinney.....	90
Sister Grove Creek near Princeton.....	91
East Fork Trinity River near Lavon.....	92
East Fork Trinity River near Rockwall.....	92
Duck Creek near Garland.....	93
East Fork Trinity River near Crandall.....	94
Trinity River near Rosser.....	95
Cedar Creek near Kemp.....	95
Kings Creek near Kaufman.....	96
Cedar Creek near Mabank.....	96
Richland Creek near Dawson.....	97
Pin Oak Creek near Hubbard.....	97
Richland Creek near Richland.....	98
Waxahachie Creek near Bardwell.....	98
Chambers Creek near Corsicana.....	99
Richland Creek near Fairfield.....	99
Catfish Creek near Tennessee Colony.....	100
Trinity River near Oakwood.....	100
Upper Keechi Creek near Oakwood.....	101
Trinity River near Crockett.....	101
Trinity River near Midway.....	102
Caney Creek near Madisonville.....	102
Trinity River at Riverside.....	103

TABLE OF CONTENTS (Cont'd.)

	Page
Long King Creek at Livingston.....	103
Trinity River at Romayor.....	104
Trinity River at Liberty.....	104
<u>San Jacinto River basin</u>	
West Fork San Jacinto River near Conroe.....	105
Spring Creek near Spring.....	106
Cypress Creek near Westfield.....	107
East Fork San Jacinto River near Cleveland.....	108
Caney Creek near Splendora.....	109
Peach Creek at Splendora.....	110
San Jacinto River near Huffman.....	111
Buffalo Bayou near Addicks.....	112
Buffalo Bayou at Houston.....	113
Whiteoak Bayou at Houston.....	114
Brays Bayou at Houston.....	115
Sims Bayou at Hiram Clarke Street, Houston.....	116
Sims Bayou at Houston.....	116
Greens Bayou near Houston.....	117
Halls Bayou at Houston.....	118
<u>Clear Creek basin</u>	
Clear Creek near Pearland.....	119
<u>Chocolate Bayou basin</u>	
Chocolate Bayou near Alvin.....	120
<u>Oyster Creek basin</u>	
Oyster Creek near Angleton.....	121
<u>Brazos River basin</u>	
Double Mountain Fork Brazos River at Justiceburg.....	122
Double Mountain Fork Brazos River near Aspermont.....	122
Running Water Draw at Plainview.....	123
Croton Creek near Jayton.....	123
Salt Croton Creek near Aspermont.....	124
Salt Fork Brazos River near Aspermont.....	125
Brazos River at Seymour.....	125
Clear Fork Brazos River near Roby.....	126
Clear Fork Brazos River at Nugent.....	126
California Creek near Stamford.....	127
Clear Fork Brazos River at Fort Griffin.....	127
Hubbard Creek near Albany.....	128
North Fork Hubbard Creek near Albany.....	128
Big Sandy Creek near Breckenridge.....	129
Hubbard Creek near Breckenridge.....	129
Clear Fork Brazos River at Eliasville.....	130
Brazos River near South Bend.....	131
Salt Creek at Olney.....	132
Briar Creek near Graham.....	132
Brazos River at Possum Kingdom Dam near Graford.....	133
Palo Pinto Creek near Santo.....	133
Brazos River near Glen Rose.....	134
Paluxy Creek at Glen Rose.....	135
Nolands River at Blum.....	136
Brazos River near Whitney.....	137

TABLE OF CONTENTS (Cont'd.)

	Page
Aquilla Creek near Aquilla.....	138
North Bosque River at Stephenville.....	139
Green Creek near Alexander.....	139
North Bosque River at Hico.....	140
North Bosque River near Clifton.....	141
North Bosque River near Valley Mills.....	142
Middle Bosque River near McGregor.....	142
Hog Creek near Crawford.....	143
Bosque River near Waco.....	143
Brazos River at Waco.....	144
Cow Bayou at Mooreville.....	145
Leon River near De Leon.....	145
Sabana River near De Leon.....	146
Leon River near Hasse.....	146
Leon River near Hamilton.....	147
Leon River at Gatesville.....	147
Cowhouse Creek at Pidcoke.....	148
Leon River near Belton.....	149
Lampasas River near Kempner.....	149
Lampasas River at Youngsport.....	150
Lampasas River near Belton.....	150
Little River near Little River.....	151
San Gabriel River at Georgetown.....	151
Little River at Cameron.....	152
Brazos River at State Highway 21 near Bryan.....	152
Middle Yegua Creek near Dime Box.....	153
East Yegua Creek near Dime Box.....	153
Yegua Creek near Somerville.....	153
Davidson Creek near Lyons.....	154
Navasota River near Easterly.....	154
Navasota River near Bryan.....	155
Brazos River near Hempstead.....	156
Mill Creek near Bellville.....	157
Brazos River at Richmond.....	157
Brazos River near Juliff.....	158
Big Creek near Needville.....	159
Dry Creek near Rosenberg.....	159
<u>San Bernard River basin</u>	
San Bernard River near Boling.....	160
<u>Colorado River Basin</u>	
Bluff Creek near Ira.....	160
Colorado River near Ira.....	161
Deep Creek near Dunn.....	161
Colorado River near Cuthbert.....	162
Colorado River at Colorado City.....	162
Beals Creek near Westbrook.....	163
Colorado River near Silver.....	163
Colorado River at Ballinger.....	164
Elm Creek at Ballinger.....	164
South Concho River at Christoval.....	165
Dove Creek at Knickerbocker.....	166

TABLE OF CONTENTS (Cont'd.)

	Page
North Concho River at Sterling City.....	166
North Concho River near Carlsbad.....	167
North Concho River at San Angelo.....	168
Concho River near San Angelo.....	169
Concho River near Paint Rock.....	170
Mukewater Creek at Trickham.....	170
Colorado River at Winchell.....	171
Deep Creek near Mercury.....	171
Hords Creek near Valera.....	172
Hords Creek at Coleman.....	172
Pecan Bayou at Brownwood.....	173
San Saba River at Menard.....	174
Brady Creek at Brady.....	175
San Saba River at San Saba.....	175
Colorado River near San Saba.....	176
North Llano River near Junction.....	177
Llano River near Junction.....	178
Beaver Creek near Mason.....	178
Llano River at Llano.....	179
Pedernales River near Johnson City.....	180
Lake Austin at Austin.....	180
Barton Springs at Austin.....	181
Waller Creek at 38th Street, Austin.....	182
Waller Creek at 23rd Street, Austin.....	182
Colorado River at Austin.....	183
Colorado River at Bastrop.....	183
Colorado River at Smithville.....	184
Redgate Creek near Columbus.....	184
Colorado River at Columbus.....	185
Colorado River at Wharton.....	185
Colorado River near Bay City.....	186
<u>Lavaca River basin</u>	
Lavaca River at Hallettsville.....	187
Lavaca River near Edna.....	188
Navidad River near Hallettsville.....	189
Navidad River near Ganado.....	189
<u>Guadalupe River basin</u>	
Johnson Creek near Ingram.....	190
Guadalupe River at Comfort.....	191
Guadalupe River near Spring Branch.....	192
Rebecca Creek near Spring Branch.....	193
Guadalupe River at Sattler.....	193
Hueco Springs near New Braunfels.....	194
Guadalupe River above Comal River at New Braunfels.....	195
Comal River at New Braunfels.....	196
San Marcos River spring flow at San Marcos.....	197
Blanco River at Wimberley.....	198
Blanco River near Kyle.....	199
San Marcos River at Luling.....	200
Plum Creek at Lockhart.....	201
Plum Creek near Luling.....	202

TABLE OF CONTENTS (Cont'd.)

	Page
Peach Creek below Dilworth.....	203
Sandies Creek near Westhoff.....	203
Guadalupe River at Victoria.....	204
Coleta Creek near Schroeder.....	205
<u>San Antonio River basin</u>	
San Antonio River at San Antonio.....	206
Salado Creek (upper station) at San Antonio.....	207
Salado Creek (lower station) at San Antonio.....	207
Medina River near Pipe Creek.....	208
Red Bluff Creek near Pipe Creek.....	208
Medina Canal near Riomedina.....	209
Medina River near Riomedina.....	209
Medina River near San Antonio.....	210
San Antonio near Elmendorf.....	210
Calaveras Creek near Elmendorf.....	211
San Antonio River near Falls City.....	211
Cibolo Creek near Boerne.....	212
Cibolo Creek near Falls City.....	213
Ecleta Creek near Runge.....	214
Escondido Creek at Kenedy.....	214
San Antonio River at Goliad.....	214
<u>Mission River basin</u>	
Mission River at Refugio.....	215
<u>Aransas River basin</u>	
Aransas River near Skidmore.....	215
<u>Nueces River basin</u>	
Nueces River at Laguna.....	216
West Nueces River near Brackettville.....	217
Nueces River below Uvalde.....	217
Nueces River near Asherton.....	218
Nueces River at Cotulla.....	218
Nueces River near Tilden.....	219
Frio River at Concan.....	220
Dry Frio River near Reagan Wells.....	221
Sabinal River near Sabinal.....	222
Sabinal River at Sabinal.....	223
Hondo Creek near Tarpley.....	223
Seco Creek at Miller Ranch near Utopia.....	224
Leona River spring flow near Uvalde.....	224
Frio River near Derby.....	225
Frio River at Calliham.....	225
Atascosa River at Whitsett.....	226
Nueces River near Three Rivers.....	226
Nueces River near Mathis.....	227
<u>Rio Grande basin</u>	
Pecos River below Red Bluff Dam near Orla.....	228
Phantom Lake Spring near Toyahvale.....	229
San Solomon Springs at Toyahvale.....	230
Limpia Creek below Fort Davis.....	230
Pecos River near Girvin.....	231

TABLE OF CONTENTS (Cont'd.)

	Page
Devils River near Juno.....	231
Las Moras Springs at Brackettville.....	232

TABLE

1. Temperature conversion table.....	5
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FIGURE

1. Map Showing Location of Daily Temperature Observation Sites in Texas.....	3
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TEMPERATURE OF TEXAS STREAMS

INTRODUCTION

U.S. Geological Survey has collected streamflow information in Texas for more than 75 years as part of the program to appraise the State's water resources. Since about 1948, stream temperature data have been collected at various times as part of this program and have been published, in part, in various reports. Much data on stream temperature obtained at the time of discharge measurements has not been published previously. This report summarizes stream temperature data collected through September 30, 1966.

The report was prepared by U.S. Geological Survey under the 1967 cooperative agreement with Texas Water Development Board that provides for investigation of the water resources of Texas.

SIGNIFICANCE OF TEMPERATURE DATA

Physical, chemical, and biological properties of water are closely related to its temperature. For many uses of water, therefore, temperature is important, and temperature data are essential for planning multiple uses of water resources.

Growth of taste- and odor-producing bacteria in lakes and impoundments may be stimulated by warm temperatures. Dense bacteria growth can add to costs of water purification treatment.

For cooling, the principal industrial use, the temperature of water is the most significant characteristic. Other industrial operations may require water of a nearly constant temperature. Changes in temperature as water is used in industrial processes or for air conditioning may limit the water's usefulness to others.

Temperature affects the ability of water to sustain aquatic life. Oxygen is less soluble in warm water than in cold water, and the quantity of oxygen in solution may be further diminished as increased temperatures accelerate biological activity, including that of oxygen-using bacteria that decompose organic wastes. Many substances such as cyanide, phenol, and xylene are more toxic to fish at elevated temperatures. Fish tolerance of lower oxygen levels and pollutant concentrations varies by species.

COLLECTION OF DATA

The temperature of surface water, except for the outflow of large springs, tends to change seasonally, and superimposed upon the annual temperature cycle is a daily fluctuation. Most large, swiftly flowing streams probably have a small diurnal variation in water temperature, whereas sluggish or shallow streams may have a daily range of several degrees and may closely follow the changes in air temperature.

Daily water temperatures were measured at most of the chemical-quality and sediment stations at the time the samples were collected. So far as practicable, water temperatures were taken at about the same time each day for an individual station in order that data would be relatively unaffected by diurnal variations in temperature. Thermometers used were accurate to plus or minus 0.5°F.

A continuous temperature record was obtained at a few stations. Thermograph data were obtained by means of a sensing element set at a constant elevation of approximately 2 feet below the lowest anticipated water surface.

Temperature observations were recorded when discharge measurements were made. Measurements are made at irregular intervals ranging from one day to several weeks. The quantity-temperature relation of water is important to many users; therefore, the stream discharges at times of occasional temperature observations are also given. In general, water-temperature observations were made near the stream bank in flowing water.

Moore (1967) reports that in 1949 surface temperatures across the stream were measured with a hand thermometer to insure that water temperature at the thermograph sensing element was representative of that for the entire stream. This was always found to be true. In 1963, a tele-thermometer was used to obtain temperature profiles at 40 thermograph stations in Oregon. At 38 of the 40 sites, temperature at the sensing element was within 0.7°F of the average for the cross section, and for 29 sites, within 0.3°F. The tests indicate that there is little variation in the temperature of moving water in the cross section.

PRESENTATION OF DATA

Records are listed in a downstream direction along the main stem with all stations on a tributary entering above a main stem station listed before that station. If a tributary enters between two main stations, it is listed between them.

As an added means of identification, each gaging station has been assigned a permanent station number. The complete number for each station, such as 07-2275.00, includes the part "7" and a six-digit station number. In this report, only the essential digits are shown (e.g., 7-2275), and the number appears to the left of the station name. Stations in the Arkansas and Red River basins are in part 7--all other Texas stations are in part 8.

For those stations where daily records are available (Figure 1) the maximum, minimum, and average temperatures are listed for each month of the year.

SELECTED REFERENCES

Blakely, J. F., 1966, Temperature of surface waters in the conterminous United States: U.S. Geol. Survey Atlas HA-235.

Moore, A. M., 1967, Correlation and analysis of water-temperature data for Oregon streams: U.S. Geol. Survey Water-Supply Paper 1819-K, 53 p.

U.S. Geological Survey, 1966, Quality of surface waters of the United States, 1963: U.S. Geol. Survey Water-Supply Paper 1950, 635 p.

ARKANSAS RIVER BASIN

7-2275. Canadian River near Amarillo, Tex.

Location.--Lat 35°28'10", long 101°52'45" at bridge on U. S. Highways 87 and 287, 1,500 ft downstream from Pitcher Creek, 1.4 miles downstream from East Amarillo Creek, 1.7 miles downstream from Panhandle and Santa Fe Railway Co. bridge, and 19 miles north of Amarillo, Potter County.

Drainage area.--19,445 sq mi, of which 4,069 sq mi is probably noncontributing.

Water temperature records available.--Once-daily observations usually before noon, August 1949 to September 1966. Intermittent records at Boys Ranch 20 miles upstream for the period February 1949 to September 1953 are on file in the district office at Austin.

Remarks.--Some regulation by Conchas and Ute Reservoirs in New Mexico.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1949	Mean	-	-	-	-	-	-	-	-	-	-	73	68
	Max.-Min.	-	-	-	-	-	-	-	-	-	-	83 67	84 55
1950	Mean	52	42	35	35	38	38	47	56	68	-	-	71
	Max.-Min.	74 36	52 36	47 32	42 32	47 32	50 32	57 35	65 47	76 55	-	-	71 66
1951	Mean	54	-	34	34	39	45	45	70	76	77	-	-
	Max.-Min.	65 47	-	41 32	37 32	49 32	49 32	58 34	-	95 54	92 61	89 69	-
1952	Mean	-	-	35	36	37	39	47	56	79	74	78	78
	Max.-Min.	-	-	47 32	44 32	50 32	49 32	58 34	66 48	93 52	86 62	90 59	87 60
1953	Mean	-	36	-	-	-	-	-	-	-	69	69	60
	Max.-Min.	-	45 32	-	-	-	-	-	-	-	74 62	74 66	80 53
1954	Mean	-	42	35	35	38	-	50	55	65	69	69	-
	Max.-Min.	-	50 33	49 32	40 32	48 33	-	60 35	66 41	72 54	75 63	72 65	-
1955	Mean	55	42	35	35	34	38	46	58	63	69	68	62
	Max.-Min.	68 43	63 35	43 32	48 33	44 33	44 33	58 38	63 53	70 49	74 66	73 63	66 55
1956	Mean	51	36	-	34	-	39	45	58	67	68	65	58
	Max.-Min.	68 38	43 32	-	48 32	-	67 32	56 35	70 49	70 64	72 64	71 55	64 54
1957	Mean	51	37	33	34	41	42	47	57	64	70	70	58
	Max.-Min.	61 38	46 32	41 32	47 32	52 32	50 32	58 32	65 50	72 55	76 65	75 65	69 44
1958	Mean	51	40	34	33	37	39	47	61	66	70	70	65
	Max.-Min.	57 38	55 32	43 32	38 32	50 32	55 33	56 36	70 51	72 57	75 60	74 64	75 50
1959	Mean	51	40	34	33	36	35	44	57	66	68	70	59
	Max.-Min.	61 40	49 32	38 32	48 32	46 32	46 32	55 35	66 39	70 60	72 64	80 65	69 49
1960	Mean	48	37	36	34	34	39	49	54	67	71	71	64
	Max.-Min.	55 39	58 32	46 32	44 32	43 32	50 32	60 39	64 42	72 58	75 65	82 67	68 58
1961	Mean	55	40	34	32	37	41	48	56	65	69	68	60
	Max.-Min.	65 40	48 32	45 32	34 32	52 32	51 33	60 35	68 40	68 60	73 65	73 63	70 50
1962	Mean	50	39	35	32	38	38	49	57	63	70	67	63
	Max.-Min.	62 40	58 33	49 32	35 32	54 32	48 32	58 35	64 48	71 55	80 64	74 60	68 54
1963	Mean	52	41	37	32	-	-	59	73	80	82	83	80
	Max.-Min.	64 43	51 33	50 32	36 32	-	-	80 36	85 50	85 65	85 70	92 70	90 70
1964	Mean	72	57	42	42	42	55	66	75	75	77	77	68
	Max.-Min.	82 58	66 46	52 32	58 32	54 32	70 36	82 45	79 54	84 60	86 62	83 68	80 52
1965	Mean	62	49	42	45	45	45	63	70	78	75	75	-
	Max.-Min.	71 50	60 39	52 32	51 39	65 32	65 32	75 52	-	81 59	84 69	90 66	-
1966	Mean	59	48	47	39	44	55	56	66	71	79	75	75
	Max.-Min.	72 46	68 36	67 33	49 32	51 32	63 46	69 40	72 42	76 68	84 68	82 62	90 66
1949-66	Mean	55	42	37	35	38	42	50	59	69	72	72	66
	Max.-Min.	82 36	68 32	67 32	58 32	65 32	70 32	82 32	85 39	95 49	92 60	92 55	90 44

ARKANSAS RIVER BASIN

7-2280. Canadian River near Canadian, Tex.

Location.--Lat 35°55', long 100°22', at bridge on U. S. Highways 60 and 83, 500 ft downstream from Panhandle and Santa Fe Railway Co. bridge, 1.2 miles downstream from Red Deer Creek, and 1.6 miles northeast of Canadian, Hemphill County.

Drainage area.--22,866 sq mi, of which 4,688 sq mi is probably noncontributing.

Remarks.--Some regulation by Lake Meredith since October, 1964. River is in two channels, discharges and temperatures listed below are for left channel which carries the most water.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 4, 1948	40	42.9	Nov. 18, 1951	48	42.4	Apr. 23, 1957	63	1.67
Jan. 4, 1949	32	9.08	Dec. 17	33	70.5	May 6	71	1.76
Feb. 8	34	781	Jan. 22, 1952	37	30.8	May 14	79	1.61
Mar. 7	58	204	Feb. 20	35	29.0	May 17	70	63.4
Mar. 23	66	55.2	Mar. 19	42	13.0	May 20	65	1.17
Mar. 24	48	42.4	May 8	87	1.27	May 26	67	3,150
Apr. 19	51	1.67	May 15	74	.90	May 26	78	2,250
Apr. 25	78	547	May 21	75	.80	May 29	68	756
May 2	71	111	May 28	69	.91	June 11	75	656
May 2	71	84.1	June 3	86	.78	June 17	69	45.0
May 3	64	65.4	June 12	90	.38	June 24	86	245
May 10	67	1,100	July 24	89	446	July 5	87	0.54
May 13	65	579	July 27	76	13.9	July 12	89	0.19
May 18	64	5,190	Aug. 12	77	6.37	July 17	82	0.46
May 21	69	1,150	Aug. 20	87	.92	July 24	90	0.41
May 26	70	340	Sept. 10	67	1.16	July 31	83	1,700
June 1	71	233	Oct. 7	62	1.22	Aug. 3	89	971
June 8	73	4,100	Nov. 10	46	1.75	Aug. 8	82	1,700
June 15	69	432	Dec. 19	34	61.5	Aug. 4	77	1,100
June 21	78	1,070	Jan. 16, 1953	32	10.0	Aug. 8	81	1,770
June 24	81	2,310	Mar. 5	35	45.8	Aug. 9	76	1,040
June 28	78	368	Apr. 7	72	1.70	Aug. 12	87	180
June 30	74	79.0	May 12	40	44.8	Aug. 19	74	1,560
July 8	84	28.1	June 15	77	.54	Aug. 20	81	1,700
Oct. 25	43	26.4	July 21	71	2,260	Aug. 27	83	.72
Nov. 15	50	1.79	July 28	65	63.0	Sept. 5	81	.64
Dec. 13	33	37.6	Aug. 20	49	4,290	Sept. 5	64	214
Jan. 16, 1950	42	40.7	Sept. 8	48	.71	Sept. 11	77	54.0
Feb. 20	57	32.4	Sept. 18	42	.81	Sept. 18	62	1.58
Mar. 20	51	1.60	Dec. 9	35	41.7	Sept. 25	69	1.27
Apr. 14	48	1.47	Jan. 13, 1954	32	28.2	Oct. 1	68	598
Apr. 21	75	32.9	Mar. 22	54	1.39	Oct. 15	53	260
Apr. 27	55	.95	July 28	92	706	Oct. 18	57	37.1
May 6	60	1.00	Aug. 3	88	12.0	Oct. 29	52	10.7
May 11	69	1.19	Aug. 11	87	.46	Nov. 26	45	3.00
May 18	75	2.71	Aug. 18	84	.40	Feb. 12	35	5.27
May 19	78	35.9	Aug. 23	76	2,090	Mar. 11	40	9.55
May 21	79	61.0	Aug. 24	78	789	Apr. 7	57	1.05
June 8	84	5.85	Aug. 24	80	617	Apr. 18	55	6.93
June 28	89	24.4	Aug. 30	80	168	Apr. 22	68	26.6
July 13	80	703	Sept. 15	78	.76	May 7	72	1.82
Aug. 22	78	86.6	Sept. 24	64	.57	May 20	80	364
Sept. 7	78	2,630	Sept. 29	58	.78	May 27	70	287
Sept. 8	65	1,700	Oct. 4	82	.75	June 4	74	267
Sept. 12	67	6,020	Oct. 9	74	7,210	June 10	85	96.4
Sept. 21	71	110	Oct. 13	78	414	June 25	65	772
Sept. 28	66	1,080	Oct. 28	40	14.2	July 15	86	202
Oct. 4	51	455	Jan. 7, 1955	45	1.68	July 23	74	2,170
Oct. 10	59	83.6	Jan. 12, 1955	32	32.7	July 28	65	6,200
Oct. 17	66	20.1	Feb. 16	42	30.4	Aug. 1	75	5,330
Nov. 20	47	38.7	Mar. 24	56	1.30	Aug. 4	84	893
Feb. 28, 1951	55	433	Apr. 18	68	1.30	Aug. 12	87	100
Mar. 15	60	20.4	May 25	68	787	Aug. 19	84	4,46
Apr. 10	55	57.6	July 5	90	3.78	Aug. 26	82	3,380
Apr. 25	66	1.35	Aug. 2	87	78.3	Sept. 5	80	98.6
May 14	69	2.58	Aug. 11	87	99.8	Sept. 7	78	5,400
May 20	71	3,280	Aug. 18	86	156	Sept. 8	77	8,210
May 29	80	414	Aug. 25	80	1.22	Sept. 10	80	3,000
June 7	66	1,210	Aug. 25	80	393	Sept. 16	70	853
June 13	82	236	Sept. 7	74	.92	Sept. 23	80	141
June 20	87	266	Sept. 16	72	.72	Oct. 1	67	13.6
June 26	86	174	Sept. 22	77	.82	Oct. 8	74	12.6
July 5	86	186	Oct. 5	71	140	Oct. 15	60	1.55
July 12	83	.66	Oct. 18	60	1.06	Oct. 21	65	1.01
July 15	87	5,300	Oct. 26	61	1.47	Oct. 29	50	1.35
July 19	94	272	Nov. 1	58	1.41	Dec. 3	35	45.0
July 24	81	111	Nov. 15	54	2.30	Jan. 7, 1959	32	26.4
Aug. 1	93	95.1	Dec. 13	40	2.52	Feb. 3	32	77.8
Aug. 9	82	.73	Jan. 12, 1956	32	14.0	Mar. 4	39	13.3
Aug. 14	86	81.3	Mar. 13	41	4.68	Apr. 2	64	1.33
Aug. 23	82	1.11	Apr. 19	61	1.46	Apr. 27	75	1.20
Aug. 28	89	30.9	May 10	80	2.54	May 5	68	4,090
Sept. 6	86	.90	Oct. 4	73	0.64	May 2	60	539
Sept. 9	86	214	Nov. 1	58	1.10	May 12	82	152
Sept. 13	74	17.5	Jan. 17, 1957	33	1.15	May 20	70	17.9
Sept. 21	59	1.08	Feb. 1	33	1.82	May 26	84	41.0
Sept. 26	72	1.24	Feb. 20	42	1.82	June 3	61	.63
Oct. 3	66	1.07	Mar. 21	53	2.13	June 10	70	65.6
Oct. 11	62	1.52	Apr. 8	58	1.60	June 16	90	.42

ARKANSAS RIVER BASIN

7-2280. Canadian River near Canadian, Tex.--Continued

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 1, 1959	80	206	Jan. 31, 1962	52	45.5	Apr. 29, 1964	54	.97
July 7	85	142	Mar. 9	54	14.0	May 15	83	.87
July 28	85	48.1	Apr. 9	62	66.9	May 28	64	1.32
Aug. 5	75	.42	Apr. 16	56	30.1	June 10	81	.55
Sept. 29	60	.63	May 3	91	.08	June 24	72	.75
Apr. 6, 1960	50	2.28	June 13	83	.39	Aug. 21	89	.08
May 3	73	1.04	June 21	84	66.7	Sept. 17	77	.90
May 18	60	2.11	July 2	89	1.22	Oct. 8	68	5.13
May 24	84	.33	July 10	89	.50	Oct. 27	66	1.19
June 1	78	1.32	Aug. 15	80	137	Dec. 1	32	22.5
Aug. 2	80	141	Aug. 23	78	1.20	Jan. 6, 1965	52	39.5
Sept. 22	74	.53	Sept. 6	75	.89	Feb. 3	33	24.0
Nov. 30	40	1.88	Sept. 18	79	11.4	Feb. 17	32	47.0
Dec. 27	36	2.26	Oct. 2	60	45.9	Mar. 10	38	17.0
Mar. 1, 1961	39	1.70	Oct. 15	71	1.37	Apr. 14	68	2.75
Mar. 28	50	2.02	Nov. 14	57	5.44	May 6	78	.51
Apr. 12	45	1.47	Dec. 11	32	50.7	May 17	72	52.9
Apr. 26	52	1.40	Jan. 17, 1963	33	12.0	June 8	88	7.21
May 9	80	1.69	Jan. 28	32	22.1	July 19	87	.42
May 16	70	1.06	Feb. 12	34	78.8	Aug. 5	76	.28
May 23	78	1.01	Mar. 13	41	25.0	Aug. 19	83	10.3
June 13	71	4.50	Apr. 4	57	1.06	Sept. 9	86	1.04
June 21	66	.97	Apr. 19	66	.66	Sept. 23	62	17.4
July 5	85	.60	May 3	76	.59	Oct. 6	72	3.89
July 12	75	27.5	May 16	84	.18	Oct. 18	64	317
July 21	72	134	June 6	81	691	Nov. 23	54	34.9
July 25	88	30.6	June 20	90	.32	Dec. 29	49	113
Aug. 2	78	1.03	July 17	85	145	Feb. 1, 1966	32	44.9
Aug. 9	70	.69	Aug. 9	80	.05	Mar. 8	52	40.6
Aug. 16	84	.99	Aug. 22	74	11.1	Apr. 14	67	2.99
Aug. 22	77	352	Sept. 5	82	430	Apr. 27	72	42.6
Aug. 28	88	7.72	Sept. 17	71	33.9	May 10	54	1.16
Sept. 7	57	380	Oct. 15	65	.52	May 24	66	.55
Sept. 13	68	16.2	Oct. 21	67	.93	June 7	84	.40
Sept. 19	62	37.6	Nov. 19	47	1.45	July 13	76	.10
Sept. 27	58	26.3	Dec. 17	41	1.47	Aug. 2	74	1.14
Oct. 3	68	1.60	Jan. 22, 1964	41	36.0	Aug. 16	70	.70
Oct. 11	51	7.00	Feb. 27	32	53.4	Aug. 30	69	5.27
Nov. 30	51	23.3	Mar. 25	48	2.20	Sept. 12	73	.84
Dec. 27	36	9.96	Apr. 16	75	.78	Sept. 28	65	41.3

ARKANSAS RIVER BASIN

7-2335. Palo Duro Creek near Spearman, Tex.

Location.--lat 36°12', long 101°19', at bridge on State Highway 282, 6 miles west of Spearman, Hansford County, and 18 miles upstream from Horse Creek.

Drainage area.--960 sq mi, of which 520 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 3, 1948	37	5.59	Feb. 16, 1955	49	1.41	Feb. 28, 1961	48	1.38
Jan. 5, 1949	32	.06	Mar. 24	63	.98	Mar. 28	41	1.57
Feb. 8	33	9.61	Apr. 18	70	.78	Apr. 12	68	1.69
Mar. 8	44	.28	May 4	70	24.5	May 24	63	19.7
Mar. 23	61	1.31	May 24	74	22.4	June 8	72	2.53
Apr. 19	51	1.33	July 13	90	1.46	June 21	82	1.79
Apr. 25	68	.72	Aug. 2	96	1.40	July 5	82	2.72
May 20	66	68.5	Aug. 11	79	7.58	July 13	73	737
May 20	67	63.8	Oct. 5	80	.26	July 21	75	7.84
May 21	69	21.3	Mar. 13, 1956	41	2.19	July 25	88	8.40
June 1	76	2.41	June 7	69	8.32	Aug. 2	76	5.42
June 13	67	6.61	Aug. 9	81	2.87	Aug. 17	83	3.84
July 8	79	.36	Jan. 17, 1957	33	.2	Aug. 23	68	.78
Oct. 10	51	23.0	Feb. 20	41	1.40	Sept. 7	83	2.28
Oct. 10	54	16.2	Apr. 23	62	2.12	Sept. 20	58	.52
Nov. 16	40	1.24	May 6	70	2.56	Oct. 3	55	.44
Dec. 14	33	.40	May 20	68	5.67	Oct. 11	55	1.14
Jan. 17, 1950	33	.94	May 28	74	26.4	Oct. 31	49	2.40
Feb. 21	41	.86	May 28	71	30.3	Dec. 1	46	1.70
Mar. 21	39	.67	May 29	67	32.0	Dec. 27	32	3.18
Apr. 27	75	-.31	June 10	84	3.99	Jan. 31, 1962	32	-.37
June 2	68	.26	June 24	80	4.72	Mar. 8	50	.58
June 29	70	.90	Aug. 12	94	1.34	Mar. 10	46	.81
Aug. 16	82	4.45	Sept. 25	67	.10	Apr. 16	64	.45
Sept. 5	66	124	Oct. 14	59	.97	Apr. 23	61	.18
Sept. 14	62	67.1	Oct. 29	46	.67	May 3	82	.40
Sept. 25	64	78.6	Nov. 26	48	.92	May 30	76	.49
Sept. 26	64	334	Jan. 9, 1958	34	1.08	June 13	79	.24
Oct. 6	67	7.32	Feb. 12	32	1.64	June 21	92	3.25
Oct. 16	63	2.80	Mar. 11	36	1.13	July 3	69	.75
Nov. 22	40	2.51	Apr. 8	48	.58	July 10	87	.09
Jan. 16, 1951	37	5.44	May 13	70	.98	July 17	75	23.0
Feb. 28	49	2.13	July 9	79	52.4	Aug. 15	83	26.1
Mar. 16	38	1.96	July 21	74	364	Aug. 23	89	.11
Apr. 10	49	2.00	July 23	73	1,530	Sept. 18	81	.37
May 17	58	4,300	July 24	72	118	Oct. 3	55	.04
May 18	58	2,560	July 25	85	25.3	Nov. 14	52	.33
May 18	64	1,920	Aug. 1	85	8.84	Dec. 11	35	1.22
May 19	60	630	Aug. 4	84	3.41	Jan. 17, 1963	32	.15
May 20	71	92.2	Aug. 19	89	1.53	Jan. 29	32	.08
May 25	80	22.8	Aug. 21	78	1.12	Feb. 12	33	.68
June 21	80	4.95	Sept. 5	68	.49	Apr. 4	55	.26
July 24	77	2.59	Sept. 16	70	1.91	June 5	75	72.8
Aug. 14	77	1.10	Oct. 1	64	.61	June 20	69	31.4
Aug. 23	79	1.11	Oct. 8	80	.50	July 17	66	4.22
Sept. 27	60	.24	Oct. 21	47	.49	Aug. 9	93	.02
Oct. 3	66	.17	Oct. 30	47	1.33	Sept. 5	80	31.8
Nov. 19	32	.21	Dec. 3	35	.56	Oct. 3	78	.58
Dec. 18	32	.83	Jan. 7, 1959	32	1.11	Oct. 15	76	.20
Jan. 22, 1952	35	2.35	Feb. 3	32	.74	Oct. 21	75	1.09
Feb. 20	61	1.43	Mar. 4	39	.83	Nov. 19	48	.18
Mar. 19	67	.24	Apr. 27	74	.52	Dec. 17	32	.97
Apr. 18	63	1.09	May 12	83	.36	Jan. 22, 1964	33	2.09
May 21	69	1.60	May 27	62	.95	Feb. 27	32	.03
July 18	80	1.58	June 3	86	.19	Feb. 25	52	.29
Aug. 12	73	.74	June 23	82	10.4	Apr. 16	72	.54
Nov. 11	67	.37	July 28	90	2,090	Apr. 29	67	.33
Dec. 19	32	.76	Aug. 5	84	.65	May 15	65	.25
Mar. 4, 1953	47	1.12	Aug. 19	82	.57	May 28	66	.26
Apr. 7	70	.60	Aug. 25	72	5.42	May 17, 1965	68	33.3
May 12	44	.19	Sept. 16	77	.18	June 8	70	13.6
Aug. 4	66	2.71	Sept. 22	85	.11	June 21	81	17.9
Dec. 9	33	1.11	Nov. 11	39	.60	July 20	87	8.03
Feb. 24, 1954	64	.69	Dec. 9	36	1.47	Aug. 5	85	7.18
Mar. 23	46	.83	Jan. 14, 1960	38	1.36	Aug. 23	78	52.0
June 29	84	3.36	Feb. 11	37	2.83	Sept. 3	82	6.86
July 14	94	1.13	Mar. 10	37	.82	Sept. 23	56	3.75
July 23	74	768	Apr. 6	60	.56	Oct. 8	75	3.62
July 23	76	708	May 3	68	.67	Oct. 19	63	133
July 28	79	4.30	May 24	85	.31	Nov. 23	58	1.68
Aug. 11	74	.19	June 8	71	3.28	Dec. 29	38	1.88
Aug. 23	73	37.6	June 20	86	.68	Mar. 8, 1966	58	.92
Oct. 13	66	5.90	July 26	92	1.88	Apr. 15	76	.32
Oct. 28	44	1.13	Sept. 14	72	3.20	May 16	75	.20
Dec. 8	33	2.01	Nov. 2	46	3.84	Aug. 30	86	.90
Jan. 11, 1955	35	2.08	Nov. 29	37	3.41			

ARKANSAS RIVER BASIN

7-2350. Wolf Creek at Lipscomb, Tex.

Location.--Lat 36°14'15", long 100°16'25", at bridge on State Highway 305, 0.3 mile north of Lipscomb, Lipscomb County, 0.7 mile downstream from Little Sand Creek, and 2 miles upstream from Flus Creek.

Drainage area.--697 sq mi, of which 222 sq mi is noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 1, 1961	38	3.70	Apr. 4, 1963	59	4.71	Jan. 6, 1965	51	6.33
Dec. 27	36	4.90	Apr. 19	65	1.50	Feb. 3	40	5.18
Feb. 1, 1962	54	8.06	May 3	85	1.35	Mar. 10	40	5.26
Mar. 9	38	6.11	May 16	85	1.10	Apr. 14	75	7.65
Apr. 9	65	7.40	June 1	64	474	May 6	83	2.26
Apr. 16	72	4.08	June 5	81	81.6	May 17	78	17.9
Apr. 23	74	2.62	June 20	92	20.4	June 8	84	4.57
May 3	65	3.47	July 3	90	5.34	July 20	82	3.58
May 15	75	.52	Aug. 9	93	.36	Aug. 5	92	1.30
May 23	92	.20	Sept. 5	80	63.1	Aug. 19	88	.37
June 8	57	148	Sept. 17	72	7.15	Sept. 9	87	4.96
June 8	56	48.2	Oct. 3	77	1.40	Sept. 23	62	15.5
June 8	69	38.0	Oct. 15	76	.96	Oct. 8	73	3.79
June 13	90	3.42	Oct. 21	78	2.01	Oct. 19	69	20.5
June 21	94	8.05	Nov. 19	48	3.42	Nov. 23	53	6.60
July 2	84	2.13	Dec. 17	32	3.53	Dec. 29	48	7.56
July 10	97	.70	Jan. 22, 1964	53	6.41	Feb. 1, 1966	32	4.06
Aug. 1	80	27.3	Feb. 27	33	6.48	Mar. 8	55	7.73
Aug. 15	88	.09	Mar. 25	49	4.19	Apr. 15	65	5.34
Sept. 6	83	.58	Apr. 16	72	2.11	Apr. 27	68	6.16
Sept. 16	91	.83	Apr. 29	64	1.86	May 10	52	3.85
Oct. 15	72	1.02	May 15	80	1.87	May 24	74	1.28
Nov. 14	58	2.33	May 28	73	4.63	June 7	71	.94
Dec. 11	32	3.80	June 10	87	.78	Aug. 2	72	5.77
Jan. 17, 1963	33	1.36	June 24	92	2.09	Aug. 16	87	1.92
Jan. 29	32	1.92	Oct. 8	72	.02	Aug. 30	78	1.88
Feb. 12	37	14.8	Oct. 27	68	.30	Sept. 12	73	.80
Mar. 13	42	5.36	Dec. 1	41	3.56	Sept. 27	58	1.61

RED RIVER BASIN

7-2955. Tierra Blanca Creek above Buffalo Lake near Umbarger, Tex.

Location.--Lat 34°50'55", long 102°10'32", on left bank 8 miles southwest of Umbarger, Randall County, and 10 miles upstream from Buffalo Lake Dam.

Drainage area.--1,968 sq mi, of which 1,430 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 10, 1949	39	1.27	May 20, 1951	68	65.2	June 2, 1952	80	14.0
Mar. 22	56	.81	May 21	65	30.0	July 14	74	7.61
Apr. 20	58	4.61	May 23	67	27.7	Jan. 14, 1953	48	1.40
May 6	62	94.3	June 5	72	7.27	Mar. 4	39	1.02
May 11	65	22.2	June 12	71	4.22	Apr. 8	63	8.52
May 22	70	16.4	June 25	70	15.7	May 25	69	.21
Sept. 13	65	.50	July 2	70	20.7	Aug. 19	63	7.40
Nov. 17	48	1.18	July 26	84	1.73	Nov. 23	40	1.13
Dec. 15	39	1.58	Aug. 6	84	.50	Jan. 11, 1954	38	.93
Jan. 18, 1950	45	1.33	Aug. 13	79	.39	Feb. 23	47	.91
Mar. 22	51	1.28	Aug. 27	79	.51	Mar. 24	58	1.07
Apr. 25	62	.94	Sept. 11	73	.40	Apr. 13	62	1.02
July 5	79	56.4	Oct. 1	75	.16	May 12	48	373
Sept. 15	67	18.5	Nov. 20	46	.92	May 12	48	298
Oct. 12	62	2.88	Dec. 18	32	1.28	May 12	48	188
Nov. 29	42	2.47	Jan. 23, 1952	42	1.44	May 12	48	162
Jan. 17, 1951	42	2.52	Feb. 20	40	1.65	May 28	64	3.02
Jan. 18	40	2.15	Mar. 20	50	.99	June 17	80	6.99
Mar. 1	47	2.73	Apr. 20	67	3.24	July 19	82	.20
Apr. 11	47	1.70	May 10	65	5.69	Aug. 2	97	1.49

RED RIVER BASIN

7-2961. Tierra Blanca Creek below Buffalo Lake near Umbarger, Tex.

Location--Lat $34^{\circ}55'27''$, long $102^{\circ}05'57''$, just downstream from dam on Tierra Blanca Creek, 2 miles South of Umbarger, Randall County, and 20 miles upstream from Palo Duro Creek.

Drainage area--2,075 sq mi, of which 1,500 sq mi is probably noncontributing.

Remarks--Flow regulated by Buffalo Lake.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 22, 1949	72	2.77	Aug. 20, 1951	76	2.96	Nov. 20, 1951	44	1.81
June 9	67	5.53	Aug. 20	76	3.12	Dec. 18	35	2.69
Nov. 17	49	2.83	Aug. 20	76	3.35	Jan. 23, 1952	43	1.09
Sept. 15, 1950	70	2.25	Aug. 20	75	5.40	Feb. 20	43	1.99
Oct. 12	65	2.79	Aug. 20	75	4.60	Mar. 20	47	1.55
Nov. 29	47	2.28	Aug. 20	78	4.15	Apr. 20	61	1.86
Mar. 1, 1951	46	1.94	Aug. 20	76	7.00	May 10	65	1.76
May 23	66	7.63	Aug. 20	76	1.91	June 26	73	1.84
June 5	67	2.84	Aug. 27	76	4.34	Aug. 14	69	2.25
July 2	75	2.48	Sept. 4	76	.68	Sept. 9	72	9.47
July 31	75	3.95	Sept. 11	75	.70	Apr. 8, 1953	73	3.04
Aug. 6	82	3.87	Oct. 1	64	2.06	July 1	66	8.03
Aug. 13	79	3.62						

RED RIVER BASIN

7-2982. Tule Creek near Silverton, Tex.

Location--Lat $34^{\circ}32'38''$, long $101^{\circ}25'40''$ at bridge on Farm Road 284, 1/8 mile downstream from Rock Creek, 8.6 miles northwest of Silverton, Eriscoe County, 15 miles downstream from South Tule Draw, and 17.5 miles upstream from Prairie Dog Town Fork Red River.

Drainage area--1,150 sq mi, of which 960 sq mi is noncontributing.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 24, 1964	74	12.4	June 15, 1965	79	25.5	Apr. 26, 1966	79	3.52
Dec. 2	60	.23	July 14	74	.73	June 14	73	8.07
Jan. 7, 1965	60	.50	Aug. 12	92	.28	July 11	73	2.28
Feb. 5	44	.55	Oct. 22	69	.23	Aug. 10	90	6.31
Mar. 11	47	.42	Dec. 27	37	.67	Aug. 25	72	185
June 8	87	2.00	Feb. 3, 1966	32	1.74	Aug. 31	83	9.47
June 11	62	10,400	Mar. 10	71	.19	Sept. 8	73	.58

RED RIVER BASIN

7-2992. Prairie Dog Town Fork Red River near Lakeview, Tex.

Location.--Lat 34°34'23", long 100°44'43", at bridge on Perm Road 657, 7.6 miles southwest of Lakeview, Hall County, 8.6 miles upstream from Little Red River.

Drainage area.--6,792 sq mi, of which 4,769 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 24, 1963	65	1.21	Apr. 9, 1964	72	1.08	July 14, 1965	95	1.48
May 29	83	.36	Apr. 22	68	.86	Aug. 11	92	19.9
June 3	76	167	May 7	79	.74	Aug. 30	89	1.33
June 3	84	67.6	May 20	89	.66	Sept. 15	83	4.68
June 3	83	25.1	June 2	88	.76	Sept. 18	76	41.0
June 15	90		June 15	73	456	Sept. 30	69	2.21
June 15	85	590	June 19	84	3.83	Oct. 21	64	5.34
June 18	75	2,270	July 1	92	1.18	Nov. 24	64	1.52
July 2	94	.49	July 8	95	.22	Dec. 27	43	2.00
July 11	88	.80	Aug. 11	88	.06	Feb. 3, 1966	34	2.17
July 23	90	.29	Sept. 8	80	.19	Mar. 10	73	.96
Aug. 28	89	.68	Sept. 21	66	25.2	Apr. 13	63	.99
Sept. 11	76	1.75	Oct. 12	57	2.85	Apr. 26	73	35.6
Sept. 18	80	13.9	Dec. 2	60	1.76	May 9	63	1.34
Sept. 25	80	1.52	Jan. 7, 1965	60	1.31	May 23	74	.87
Oct. 10	80	1.17	Feb. 5	64	1.60	June 6	77	.66
Oct. 22	75	1.76	Mar. 11	47	1.50	July 5	80	1.09
Nov. 18	62	1.21	Apr. 12	66	.83	July 18	91	.65
Dec. 16	41	1.71	Apr. 20	64	1.67	Aug. 15	90	26.0
Jan. 9, 1964	45	1.90	Apr. 26	54	1.71	Sept. 14	76	2.47
Jan. 20	60	1.33	June 6	81	5.76	Sept. 26	72	6.29
Feb. 25	47	1.19	June 13	80	380			

RED RIVER BASIN

7-2995.4. Prairie Dog Town Fork Red River near Childress, Tex.

Location.--Lat 34°34'09", long 100°11'37", at bridge on U. S. Highways 62 and 83, 3.1 miles downstream from Salt Creek and 10.0 miles north of Childress, Childress County.

Drainage area.--7,725 sq mi, of which 4,769 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 5, 1965	68	2.67	Sept. 21, 1965	65	5,710	May 23, 1966	65	1.66
Apr. 12	48	2.30	Sept. 30	68	5.96	June 6	74	1.40
Apr. 29	60	2.50	Oct. 21	67	38.3	July 5	72	1.43
May 10	58	40.3	Nov. 22	56	5.39	July 18	77	1.50
May 24	71	1.80	Dec. 27	39	6.22	Aug. 1	75	8.97
June 9	86	1.71	Jan. 31, 1966	32	20.0	Aug. 8	73	334
June 14	78	281	Mar. 7	41	3.10	Aug. 15	75	81.6
Aug. 11	99	1.11	Apr. 13	58	1.80	Aug. 29	79	170
Sept. 1	88	1.90	Apr. 25	56	157	Sept. 14	72	6.92
Sept. 12	88	.92	May 9	74	1.98	Sept. 26	66	13.2
Sept. 19	67	1,920						

RED RIVER BASIN

7-2995.7. Red River near Quanah, Tex.

Location.--Lat^o34 24'45", long 99^o44'00", at bridge on State Highway 283, 8 miles north of Quanah, Hardeman County, and 30 miles upstream from mouth of Salt Fork Red River.

Drainage area.--8,321 sq mi, of which 4,769 sq mi is probably noncontributing.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 6, 1959	54	8.12	July 11, 1961	82	552	Jan. 20, 1964	42	6.08
Dec. 23	44	160	July 18	85	475	Feb. 12	48	29.0
Jan. 8, 1960	36	127	Aug. 2	85	3.21	Mar. 11	62	3.28
Jan. 21	44	67.3	Sept. 6	83	4.32	Apr. 8	73	2.14
Feb. 5	42	242	Oct. 3	75	2.63	May 5	88	.54
Feb. 9	53	93.0	Jan. 4, 1962	39	20.9	May 13	89	1.08
Feb. 24	32	2.06	Jan. 30	48	41.6	June 4	88	1.45
Mar. 10	53	55.4	Feb. 15	49	18.1	June 9	95	.05
Apr. 7	68	3.54	Apr. 5	53	26.2	Aug. 12	64	.01
May 3	68	2.18	May 2	74	40.1	Sept. 16	75	155
June 11	75	5,590	May 17	78	3.36	Oct. 20	57	.44
June 13	75	1,110	June 7	80	94.2	Nov. 16	48	252
June 14	67	1,440	July 2	83	25.0	Dec. 29	45	6.77
July 5	82	22.3	Aug. 1	80	833	Jan. 28, 1965	39	3.00
Aug. 2	94	3.41	Sept. 5	67	7.11	Feb. 2	33	1.21
Aug. 19	85	58.6	Oct. 3	74	13.6	Feb. 25	57	4.31
Aug. 24	90	116	Nov. 7	58	10.2	Apr. 1	68	3.75
Sept. 7	87	6.21	Dec. 4	54	107	Apr. 29	77	2.13
Sept. 21	80	16.6	Jan. 8, 1963	52	29.3	May 27	83	3.07
Oct. 4	80	14.5	Jan. 30	32	27.9	July 27	95	.20
Nov. 2	60	137	Feb. 13	47	44.6	Nov. 3	70	10.2
Dec. 1	39	38.3	Mar. 7	54	18.4	Dec. 6	44	5.33
Dec. 30	32	86.6	Apr. 4	58	16.9	Jan. 13, 1966	38	6.88
Jan. 5, 1961	38	129	May 6	79	7.76	Feb. 17	51	10.2
Jan. 17	56	62.0	June 14	87	69.5	Mar. 22	70	1.97
Mar. 3	57	42.7	July 9	90	.08	Apr. 29	55	49.2
Apr. 5	53	48.5	Sept. 4	85	65.3	May 31	80	1.06
May 2	63	8.98	Oct. 1	82	1.42	July 5	98	.64
June 1	91	2.98	Nov. 7	66	1.93	Aug. 11	78	18.1
June 4	70	118	Dec. 12	39	8.54	Sept. 14	88	16.4
June 15	78	17.5	Jan. 10, 1964	44	4.07			

RED RIVER BASIN

7-2996.7. Croesbeck Creek at State Highway 283, near Quanah, Tex.

Location.--lat 34^o21'20", long 99^o44'25", at bridge on State Highway 283, 2 miles downstream from confluence of North and South Croesbeck Creeks, 4 miles north of Quanah, Hardeman County, and 9 miles upstream from mouth.

Drainage area.--303 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 30, 1961	49	7.73	Feb. 13, 1963	44	7.35	Oct. 16, 1964	66	1.60
Jan. 3, 1962	44	7.53	Mar. 7	53	6.85	Nov. 18	51	7.55
Jan. 30	51	7.25	Apr. 4	56	5.65	Dec. 29	47	2.07
Feb. 15	51	7.12	June 13	82	14.5	Jan. 28, 1965	39	2.30
Mar. 5	47	8.03	July 9	80	4.05	Feb. 25	48	2.57
Apr. 5	55	5.70	Aug. 7	90	1.61	Apr. 1	60	2.15
May 2	74	4.95	Sept. 4	87	3.19	Apr. 29	73	.75
June 7	73	61.4	Oct. 1	72	3.03	May 27	81	5.85
June 10	72	662	Nov. 7	62	2.89	Aug. 30	86	.11
June 10	78	186	Dec. 12	37	3.44	Sept. 30	68	1.94
June 15	82	11.9	Jan. 10, 1964	36	3.32	Nov. 3	63	4.98
July 3	82	9.08	Feb. 12	50	3.91	Dec. 8	46	3.99
Aug. 1	90	6.19	Mar. 11	52	3.35	Jan. 13, 1966	46	5.20
Sept. 6	68	7.27	Apr. 8	63	3.31	Feb. 17	49	4.21
Oct. 3	72	8.23	May 5	87	2.99	Mar. 22	70	4.05
Nov. 7	58	7.50	June 4	78	3.67	Apr. 29	60	3.02
Dec. 4	57	6.51	July 8	91	.03	May 31	78	2.28
Jan. 8, 1963	48	6.97	Sept. 16	68	12.9	July 5	65	1.64
Jan. 30	35	7.11						

RED RIVER BASIN

7-3000. Salt Fork Red River near Wellington, Tex.--Continued

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 22, 1964	82	5.84	May 21, 1965	83	5.77	Mar. 7, 1966	47	13.3
June 2	75	11.7	June 5	73	589	Apr. 11	62	9.73
June 14	70	1,970	June 23	91	16.7	Apr. 25	60	47.6
July 1	78	5.79	July 6	82	11.2	May 11	79	12.6
Aug. 7	91	1.39	July 26	82	11.1	May 23	81	3.19
Sept. 18	88	10.2	Aug. 11	91	4.60	June 6	65	3.30
Sept. 23	69	660	Sept. 1	74	4.21	July 5	93	2.48
Oct. 23	59	6.28	Sept. 14	80	4.56	July 18	70	2.40
Nov. 30	46	20.9	Sept. 30	62	11.2	Aug. 1	89	.94
Jan. 5, 1965	57	23.3	Oct. 21	60	32.6	Aug. 17	90	1.28
Feb. 2	37	29.2	Nov. 22	62	24.4	Aug. 19	86	29.2
Mar. 9	63	15.5	Dec. 30	54	33.9	Sept. 1	73	41.1
Apr. 20	76	7.79	Jan. 31, 1966	32	30.4	Sept. 26	81	8.05

RED RIVER BASIN

7-3013. North Fork Red River near Shamrock, Tex.

Location.--Lat 35°15'50", long 100°14'30", at bridge on U. S. Highway 83, 2½ miles north of Shamrock, Wheeler County, 16 miles upstream from Oklahoma-Texas State line, and 23 miles downstream from McClellan Creek.

Drainage area.--1,082 sq mi of which 379 sq mi is probably noncontributing.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 19, 1964	53	20.0	June 19, 1964	92	0.15	Sept. 22, 1965	65	68.6
Feb. 26	47	12.7	Nov. 30	39	2.36	Oct. 19	62	65.8
Mar. 24	61	.18	Jan. 6, 1965	45	18.3	Oct. 24	69	4.21
May 27	77	100	Feb. 2	38	11.9	Dec. 30	48	26.2
May 27	71	12.9	Feb. 16	50	16.3	Feb. 1, 1966	32	11.8
May 28	60	1.33	Mar. 9	57	4.00	Apr. 25	58	19.1
May 28	73	.13	Apr. 15	60	60.7	July 24	76	35.6
May 29	63	5.44	June 7	80	40.4	Sept. 19	67	34.8
May 29	62	81.9	June 24	78	.04	Sept. 20	71	14.4
June 14	68	2,240	July 3	97	.07	Sept. 21	62	4.35
June 14	76	1,220	Sept. 5	68	15.1	Sept. 22	68	1.50
June 15	74	168	Sept. 20	70	933	Sept. 28	81	2.88

RED RIVER BASIN

7-3014.1. Sweetwater Creek near Kelton, Tex.

Location.--Lat 35°28'30", long 100°07'15", at bridge on Farm Road 592, 5 miles north of Kelton, 8 miles upstream from Texas-Oklahoma state line, and 8.5 miles northeast of Wheeler, Wheeler County.

Drainage area.--287 sq mi, of which 20 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 30, 1961	46	16.7	Oct. 15, 1962	62	8.08	June 24, 1964	90	9.19
Dec. 26	41	17.2	Nov. 14	47	13.8	Oct. 9	67	.17
Jan. 31, 1962	52	21.9	Dec. 10	48	19.6	Oct. 28	60	1.68
Mar. 9	54	17.8	Jan. 18, 1963	32	16.8	Nov. 30	38	7.45
Apr. 9	47	16.1	Jan. 28	32	15.2	Jan. 6, 1965	47	13.1
Apr. 13	60	17.8	Feb. 12	32	19.0	Feb. 2	38	12.9
Apr. 20	77	15.2	Mar. 13	41	19.5	Mar. 9	54	15.9
Apr. 27	59	155	Apr. 5	51	16.5	Apr. 15	64	27.0
Apr. 27	59	95.6	Apr. 19	72	11.2	May 7	67	8.59
Apr. 28	56	56.5	May 2	78	10.2	June 7	72	67.5
May 2	68	19.3	May 17	83	3.55	July 3	77	12.9
May 15	65	7.80	June 5	85	21.3	July 19	76	2.63
May 23	63	7.43	June 21	76	6.26	Aug. 3	80	1.00
May 30	71	4.92	July 2	85	2.27	Aug. 19	75	.61
June 2	63	61.8	July 17	75	4.76	Sept. 9	83	.86
June 2	64	59.2	Aug. 6	97	.10	Sept. 22	76	51.5
June 2	64	42.3	Aug. 21	72	39.0	Oct. 6	65	10.9
June 6	62	359	Sept. 5	78	7.01	Oct. 18	60	389
June 6	63	304	Sept. 17	69	10.4	Nov. 23	50	15.2
June 6	64	247	Oct. 2	55	4.12	Dec. 30	42	19.2
June 6	65	203	Oct. 15	68	2.73	Feb. 1, 1966	32	15.4
June 9	74	391	Oct. 21	64	6.61	Mar. 8	40	17.1
June 11	72	518	Nov. 19	47	10.8	Apr. 14	55	11.9
June 13	73	29.3	Dec. 17	32	15.0	Apr. 27	73	17.0
July 2	76	11.9	Jan. 21, 1964	47	15.9	May 13	69	11.6
July 10	77	8.42	Feb. 26	45	15.5	May 24	60	4.21
July 16	64	2.93	Mar. 25	38	15.3	June 8	72	2.87
Aug. 8	92	11.9	Apr. 17	67	16.9	July 13	86	.21
Aug. 15	70	6.83	Apr. 30	53	9.49	Aug. 2	85	1.04
Aug. 23	72	3.02	May 14	67	7.10	Aug. 17	73	.30
Sept. 6	75	2.55	May 26	88	3.41	Aug. 31	70	1.47
Sept. 18	69	18.3	June 11	75	7.03	Sept. 12	74	.63
Oct. 1	61	11.7	June 14	68	341	Sept. 28	70	4.79

RED RIVER BASIN

7-3075. Quitaque Creek near Quitaque, Tex.

Location.--Lat 34°14', long 101°07', about three-quarters of a mile upstream from W. F. Saul's ranch house, 1 mile downstream from Wilson Creek, 1½ miles upstream from Turkey Creek, and 10 miles southwest of Quitaque, Briscoe County.

Drainage area.--About 293 sq mi, of which 258 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 30, 1948	52	5.73	Apr. 9, 1953	56	5.70	Aug. 3, 1956	81	2.18
Jan. 7, 1949	32	5.88	May 25	87	4.71	Aug. 30	74	.84
Feb. 10	54	6.49	July 7	76	3.19	Sept. 7	70	3.80
Mar. 21	57	6.83	Aug. 7	70	4.42	Oct. 2	83	3.09
Mar. 24	64	5.66	Sept. 10	63	3.88	Oct. 2	83	3.08
Apr. 22	83	6.39	Oct. 20	68	4.67	Oct. 31	59	4.65
May 25	63	6.09	Nov. 23	47	5.14	Dec. 5	58	4.70
July 28	80	4.10	Dec. 10	48	6.02	Jan. 16, 1957	32	5.56
Oct. 13	72	5.11	Jan. 11, 1954	34	7.53	Feb. 19	45	5.69
Nov. 18	41	5.62	Feb. 23	54	6.24	Mar. 22	65	5.64
Dec. 16	34	5.92	Mar. 23	63	5.62	Apr. 17	81	5.66
Jan. 19, 1950	32	5.16	Apr. 30	62	4.25	May 15	68	7.74
Feb. 21	56	6.04	May 21	86	5.91	June 14	90	6.24
Mar. 23	48	6.15	June 25	92	3.85	June 21	83	6.26
Apr. 6	62	5.59	July 22	74	3.89	June 27	94	5.20
Apr. 18	76	5.20	Aug. 19	76	4.48	July 11	72	4.77
Apr. 24	78	4.66	Sept. 7	92	3.52	July 11	90	3.99
May 2	78	5.28	Oct. 1	80	4.37	July 23	77	4.51
May 10	63	6.17	Oct. 26	56	4.43	Aug. 5	51	8.82
May 15	81	4.37	Dec. 9	45	5.02	Aug. 10	76	4.44
May 26	67	6.29	Jan. 10, 1955	39	5.76	Aug. 28	92	3.39
June 14	91	4.79	Feb. 10	46	5.37	Sept. 27	80	4.15
June 28	80	4.16	Mar. 23	64	5.21	Oct. 16	59	5.05
July 28	90	18.1	Apr. 11	72	4.83	Oct. 22	69	5.48
Aug. 14	90	4.67	Apr. 12	54	4.22	Nov. 25	37	5.47
Sept. 19	80	9.73	Apr. 14	71	5.38	Jan. 7, 1958	47	6.24
Oct. 20	66	6.65	Apr. 15	62	5.00	Feb. 11	32	6.99
Nov. 6	56	6.88	Apr. 29	65	4.88	Mar. 12	38	5.98
Nov. 30	55	6.10	May 12	70	31.4	Apr. 9	50	5.02
Jan. 19, 1951	36	6.27	May 26	82	5.66	Apr. 25	67	6.23
Feb. 15	44	7.22	May 26	78	4.73	May 6	86	4.96
Mar. 17	51	6.08	June 10	78	6.00	May 14	80	5.90
Apr. 12	59	5.88	June 10	78	5.21	June 12	26	3.96
May 22	76	8.05	June 10	78	5.47	June 27	67	4.31
June 19	66	12.7	June 10	78	5.62	July 18	95	2.22
July 27	95	4.39	June 17	94	5.33	Sept. 4	84	3.25
Aug. 22	70	6.92	June 21	80	5.56	Sept. 18	83	4.47
Sept. 12	75	8.07	June 21	80	5.46	Oct. 2	59	4.21
Sept. 25	85	5.08	July 21	82	6.17	Oct. 23	62	3.65
Oct. 4	74	4.61	Aug. 4	93	4.50	Dec. 4	57	5.04
Nov. 20	57	5.17	Aug. 4	93	4.42	Jan. 8, 1959	34	6.97
Dec. 19	39	6.09	Aug. 29	90	4.28	Feb. 4	38	10.4
Feb. 21, 1952	55	6.08	Sept. 27	83	5.42	Mar. 5	47	5.13
Mar. 21	49	5.89	Oct. 25	63	5.44	Apr. 3	69	4.27
Apr. 22	64	7.77	Nov. 11	51	4.26	Apr. 29	78	4.63
May 16	86	5.92	Dec. 15	34	6.32	May 28	92	3.62
June 25	92	3.34	Jan. 10, 1956	50	6.47	June 24	88	4.39
July 23	92	4.19	Mar. 15	38	4.25	July 23	94	3.00
Aug. 14	96	3.44	Apr. 11	48	5.17	Aug. 4	90	3.23
Sept. 8	84	3.53	May 3	62	4.94	Aug. 27	90	2.60
Oct. 6	61	4.19	May 17	86	3.57	Sept. 11	63	3.71
Nov. 14	42	5.80	June 21	81	2.68	Oct. 8	69	3.41
Jan. 14, 1953	50	6.06	July 12	79	2.08	Nov. 12	45	4.29
Mar. 3	62	5.33						

RED RIVER BASIN

7-3082. Pease River near Vernon, Tex.

Location.--Lat $34^{\circ}10'35''$, long $99^{\circ}16'50''$, at bridge on U. S. Highway 283, 1.9 miles north of Vernon, Wilbarger County, and 10 miles upstream from mouth.

Drainage area.--3,488 sq mi, of which 559 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 6, 1959	72	204	July 19, 1961	91	163	Sept. 4, 1963	90	59.7
Nov. 6	54	12.7	Aug. 2	94	2.82	Dec. 12	32	.46
Dec. 8	50	4.59	Sept. 5	81	112	Jan. 9, 1964	33	.21
Feb. 9, 1960	48	96.9	Nov. 27	46	6.53	Feb. 12	51	23.7
Feb. 24	32	17.0	Jan. 3, 1962	40	4.52	Mar. 11	48	.58
Apr. 6	78	7.38	Jan. 29	51	10.3	June 4	75	5.69
June 1	80	270	Mar. 5	38	2.25	Sept. 16	68	4.72
June 13	75	1,610	Apr. 5	59	5.22	Nov. 18	50	41.8
June 14	75	764	May 3	71	10.0	Jan. 28, 1965	55	.05
Aug. 18	77	447	June 14	84	623	Feb. 25	41	.07
Aug. 19	92	213	July 2	89	31.9	June 3	87	34.2
Sept. 6	91	5.28	Aug. 1	83	211	Sept. 30	68	85.5
Oct. 4	68	161	Oct. 3	73	32.2	Nov. 3	65	63.3
Oct. 17	62	1,330	Nov. 7	61	11.0	Dec. 8	54	22.2
Nov. 1	64	80.6	Dec. 4	54	50.2	Jan. 13, 1966	48	19.6
Dec. 2	39	19.5	Jan. 8, 1963	41	12.7	Feb. 17	48	16.4
Jan. 4, 1961	46	107	Jan. 30	44	12.9	Mar. 22	70	7.40
Feb. 1	45	34.6	Feb. 13	34	12.0	Apr. 29	61	43.0
Mar. 3	67	63.3	Mar. 7	44	4.87	May 31	85	1.12
Apr. 5	56	42.6	Apr. 4	54	26.1	July 5	90	.06
May 2	62	10.5	June 14	90	60.6	Sept. 16	71	402
June 1	90	.59	July 9	85	.82	Sept. 19	73	422
July 10	89	4.64						

RED RIVER BASIN

7-3085. Red River near Burkburnett, Tex.

Location.--Lat^o34 06'30", long 96^o32'00", at bridge on U. S. Highways 277 and 281, 2 miles northeast of Burkburnett, Wichita County.

Drainage area.--20,570 sq mi, of which 5,936 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 8, 1959	42	121	Apr. 13, 1962	62	186	Feb. 24, 1964	48	167
Feb. 8, 1960	50	3,240	Apr. 19	72	218	Mar. 25	45	105
Feb. 12	38	1,820	May 16	73	95.7	Apr. 7	61	51.9
Feb. 23	35	640	May 22	79	95.2	Apr. 21	76	23.6
Mar. 4	32	453	June 11	78	12,300	May 4	79	15.8
Mar. 11	53	649	June 13	78	7,310	May 13	74	378
Apr. 6	65	382	June 20	80	13,700	June 3	75	1,300
Apr. 12	66	201	July 2	85	688	June 17	80	3,740
Apr. 21	77	218	July 18	86	258	July 7	87	17.9
Apr. 25	73	153	Aug. 14	80	195	Sept. 18	73	29.4
May 3	72	116	Sept. 4	85	83.2	Oct. 7	65	48.2
June 23	84	444	Sept. 14	81	195	Oct. 21	66	22.4
July 5	73	224	Oct. 2	65	486	Nov. 4	62	771
July 21	80	602	Oct. 18	65	177	Nov. 17	54	135
Aug. 3	73	200	Nov. 6	67	242	Dec. 9	42	115
Aug. 18	80	324	Nov. 19	48	154	Dec. 31	47	102
Sept. 6	83	196	Dec. 7	49	542	Jan. 15, 1965	53	105
Oct. 4	68	157	Jan. 7, 1963	42	256	Jan. 26	41	106
Oct. 14	71	16,100	Jan. 24	32	84.9	Feb. 10	45	126
Nov. 23	48	597	Feb. 12	32	251	Feb. 24	32	11.5
Dec. 2	42	395	Mar. 6	44	231	Mar. 10	48	41.0
Dec. 20	38	1,340	Apr. 18	77	121	Mar. 31	54	50.2
Feb. 1, 1961	40	498	May 3	65	105	May 3	80	43.6
Apr. 6	60	1,040	June 1	75	24,800	June 1	82	261
May 5	64	715	June 2	76	13,300	June 14	80	2,850
June 1	80	112	June 18	79	540	July 29	84	50.7
June 13	85	2,270	July 8	80	66.5	Aug. 27	77	11.0
July 14	85	2,110	Aug. 6	88	6.88	Oct. 5	67	756
Sept. 8	86	361	Aug. 19	84	94.1	Oct. 20	65	52,600
Sept. 26	67	59.7	Sept. 4	82	356	Nov. 2	63	811
Oct. 4	68	137	Sept. 17	75	2,430	Nov. 19	53	417
Nov. 1	65	84.7	Oct. 3	69	21.9	Dec. 9	54	327
Dec. 5	50	273	Oct. 7	69	10.6	Dec. 23	54	294
Jan. 3, 1962	44	213	Oct. 17	76	.57	Jan. 11, 1966	52	309
Feb. 5	39	202	Nov. 5	64	22.8	Mar. 24	54	174
Feb. 12	68	197	Nov. 21	61	163	July 8	83	19.2
Feb. 19	50	161	Dec. 10	45	31.4	July 28	81	8.27
Feb. 26	38	154	Dec. 26	45	47.7	Aug. 12	84	180
Mar. 5	51	140	Jan. 7, 1964	40	86.0	Aug. 29	71	1,500
Mar. 12	54	137	Jan. 14	32	18.6	Sept. 6	82	1,310
Mar. 15	64	120	Jan. 22	45	40.0	Sept. 15	67	372
Mar. 26	65	104	Feb. 11	45	552	Sept. 19	75	4,520
Apr. 2	56	88.4						

RED RIVER BASIN

7-3116. North Fork Wichita River near Paducah, Tex.

Location.--lat 33°57'00", long 100°03'50", at county bridge, 4 miles downstream from Cottonwood Creek, 7 miles downstream from Salt Creek, 12 miles upstream from Middle Fork, and 14 miles southeast of Paducah, Cottle County.

Drainage area.--540 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 12, 1961	68	989	Sept. 6, 1962	71	17.3	June 5, 1964	67	7.91
July 12	71	637	Oct. 4	78	6.77	July 8	89	2.62
July 12	74	383	Nov. 8	56	8.06	Aug. 12	77	1.92
July 13	74	81.9	Dec. 5	52	8.32	Sept. 16	71	3.30
Aug. 16	88	10.3	Jan. 9, 1963	52	9.44	Oct. 22	70	3.77
Sept. 6	83	7.58	Jan. 29	47	10.2	Nov. 18	59	6.13
Oct. 4	70	7.08	Feb. 14	53	9.76	Dec. 22	56	4.38
Nov. 2	61	23.9	Mar. 7	64	9.83	Feb. 25, 1965	54	4.53
Nov. 27	52	10.9	Apr. 4	58	9.70	Apr. 1	68	4.10
Jan. 4, 1962	53	12.7	May 7	62	8.57	Apr. 29	80	4.44
Jan. 29	51	11.8	June 13	70	6.58	May 27	86	11.3
Mar. 6	53	11.7	July 10	78	3.41	June 29	90	4.94
Apr. 4	55	8.25	Aug. 8	84	3.76	Aug. 30	87	1.80
May 2	63	6.77	Sept. 5	86	3.58	Nov. 4	61	4.91
June 7	70	35.2	Oct. 3	77	3.05	Dec. 7	50	4.84
June 11	70	120	Nov. 7	64	3.90	Feb. 18, 1966	50	4.96
June 11	77	472	Dec. 13	35	6.24	Mar. 22	66	5.54
June 11	75	450	Jan. 9, 1964	41	5.91	Apr. 28	59	4.77
June 12	70	121	Feb. 13	51	7.74	May 31	80	2.79
June 14	88	13.5	Mar. 11	65	6.80	July 5	88	2.14
July 3	86	6.27	Apr. 8	68	5.95	Aug. 10	91	1.41
July 27	85	11.0	May 6	73	5.31	Sept. 14	82	9.33

RED RIVER BASIN

7-3117. North Fork Wichita River near Truscott, Tex.

Location.--lat 33°49'10", long 99°47'10" at bridge on State Highway 283, 4½ miles north of Truscott, Knox County, and about 33 miles upstream from confluence with South Fork.

Drainage area.--937 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 6, 1959	66	62.7	Jan. 29, 1962	49	18.5	Mar. 12, 1964	46	9.37
Nov. 6	48	12.1	Mar. 6	49	16.4	Apr. 9	54	7.97
Dec. 11	55	16.5	Apr. 3	55	8.50	May 6	70	5.73
Feb. 2, 1960	58	16.9	May 1	78	10.9	July 9	86	.60
Feb. 25	43	13.8	June 6	80	266	Aug. 12	82	.11
Mar. 10	62	19.7	June 14	87	70.8	Sept. 17	64	129
Apr. 7	67	14.0	July 3	92	9.35	Nov. 19	42	235
May 5	64	161	Aug. 2	90	11.6	Dec. 28	57	7.18
Aug. 4	91	13.2	Sept. 6	69	243	Jan. 27, 1965	55	6.23
Sept. 8	94	7.34	Oct. 4	74	11.4	Feb. 26	48	8.57
Oct. 5	82	18.2	Nov. 8	60	14.7	Apr. 1	68	5.69
Oct. 27	69	120	Dec. 5	52	18.4	Apr. 29	74	8.17
Nov. 2	59	29.2	Jan. 9, 1963	51	14.2	May 27	78	2.48
Dec. 2	42	21.1	Jan. 29	43	23.2	June 30	77	12.8
Jan. 5, 1961	48	23.9	Feb. 14	53	14.5	Aug. 31	74	.89
Feb. 1	50	27.8	Mar. 7	63	13.2	Oct. 5	65	29.6
Mar. 2	60	25.6	Apr. 5	53	17.6	Nov. 4	63	27.4
Apr. 6	61	25.6	May 7	84	33.5	Feb. 18, 1966	54	10.2
May 4	66	109	July 10	80	8.11	Mar. 22	65	9.56
June 9	89	27.7	Aug. 8	93	1.38	Apr. 28	58	12.9
July 11	85	32.2	Sept. 5	90	5.28	June 1	86	4.19
Aug. 2	93	10.8	Oct. 3	73	3.14	July 6	95	1.92
Sept. 6	83	22.0	Nov. 8	59	18.9	Aug. 10	96	1.78
Oct. 5	64	10.6	Dec. 13	36	12.3	Sept. 14	79	39.7
Nov. 2	60	308	Jan. 9, 1964	44	7.96	Sept. 16	68	2,340
Dec. 6	49	18.2	Feb. 13	54	11.9			

RED RIVER BASIN

7-3118. South Fork Wichita River near Benjamin, Tex.

Location.--Lat 33°38'35", long 99°47'55", at bridge on State Highway 283, 2 miles downstream from Panhandle and Santa Fe Railway Co. bridge, 4 miles north of Benjamin, Knox County, and 3 1/2 miles upstream from confluence with North Fork Wichita River.

Drainage area.--584 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 6, 1959	37	10.0	Jan. 4, 1962	47	6.43	Feb. 13, 1964	52	6.66
Dec. 11	57	5.54	Jan. 29	48	6.60	Mar. 12	50	5.22
Feb. 2, 1960	58	6.12	Mar. 6	45	4.94	Apr. 9	58	3.37
Feb. 25	43	10.4	Apr. 3	55	4.10	May 6	87	3.82
Mar. 10	58	5.63	May 1	78	9.61	June 5	72	62.9
Apr. 7	76	4.34	June 6	78	185	Sept. 17	69	153
May 5	69	5.05	July 3	87	10.5	Oct. 22	70	3.18
Aug. 4	99	1.38	Aug. 2	89	3.79	Nov. 19	43	253
Oct. 5	77	5.25	Sept. 6	67	356	Jan. 27, 1965	51	4.35
Oct. 20	57	361	Oct. 4	72	8.55	Feb. 26	53	4.55
Oct. 27	72	76.0	Nov. 8	58	6.83	Apr. 1	66	3.61
Nov. 2	59	28.7	Dec. 5	50	11.8	Apr. 29	69	4.68
Dec. 2	49	11.2	Jan. 10, 1963	50	7.87	May 27	76	3.15
Jan. 5, 1961	45	12.3	Jan. 29	40	9.21	Aug. 31	77	9.86
Feb. 1	53	10.4	Feb. 14	47	7.66	Oct. 5	64	26.9
Mar. 2	54	7.67	Mar. 7	58	5.63	Nov. 4	63	20.7
Apr. 6	61	11.9	Apr. 5	55	12.3	Jan. 12, 1966	53	8.68
May 4	66	2,870	May 7	81	45.0	Jan. 25	36	11.4
June 9	89	18.3	June 12	87	23.5	Feb. 18	48	7.43
July 11	80	13.3	July 10	82	2.09	Mar. 23	48	5.85
Aug. 2	86	2.64	Sept. 5	86	22.5	Apr. 28	57	12.4
Sept. 6	81	13.4	Oct. 3	68	.55	June 1	83	1.69
Oct. 5	71	3.16	Nov. 8	59	1.43	July 6	95	.36
Nov. 2	60	239	Dec. 13	35	8.62	Sept. 13	77	45.2
Dec. 6	53	7.03	Jan. 9, 1964	40	4.31			

RED RIVER BASIN

7-3119. Wichita River near Seymour, Tex.

Location.--Lat 33°42'00", long 99°23'10" at bridge on Ranch Road 1919, 6 miles upstream from head of Lake Kemp, 10 miles downstream from confluence of North and South Forks, and 10 1/2 miles northwest of Seymour, Baylor County.

Drainage Area.--1,874 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 1, 1959	46	16.2	Dec. 5, 1961	52	29.5	Mar. 12, 1964	67	12.4
Jan. 4, 1960	40	39.8	Feb. 6, 1962	42	19.8	Apr. 9	68	8.40
Feb. 2	50	26.8	Mar. 5	50	20.3	May 6	85	3.23
Feb. 26	32	35.2	Apr. 3	60	10.8	June 5	83	123
Mar. 11	46	26.6	May 1	72	65.8	Oct. 23	68	8.01
Apr. 8	57	16.2	May 17	78	12.0	Nov. 19	43	1,860
May 4	60	5,100	June 6	76	2,320	Feb. 26, 1965	58	8.15
May 4	60	7,430	July 2	80	69.9	Apr. 2	64	8.14
July 12	88	151	Sept. 12	88	92.4	Apr. 30	61	17.0
Aug. 4	92	13.4	Oct. 5	70	30.8	May 28	65	958
Sept. 8	88	2.37	Nov. 9	54	33.9	June 30	85	42.1
Oct. 6	71	23.4	Dec. 6	54	47.8	July 28	83	.25
Oct. 24	72	274	Jan. 10, 1963	54	23.6	Aug. 31	82	17.1
Nov. 3	58	118	Jan. 28	35	21.4	Oct. 5	65	285
Dec. 2	48	45.1	Feb. 15	45	25.1	Nov. 4	63	127
Jan. 6, 1961	37	55.9	Mar. 8	58	18.4	Jan. 12, 1966	54	33.2
Mar. 1	56	42.9	Apr. 5	55	57.0	Feb. 18	42	26.6
Apr. 7	58	61.2	July 11	71	18.0	Mar. 23	96	17.1
May 4	71	1,530	Aug. 9	93	1.60	Apr. 27	75	216
June 9	79	97.4	Sept. 5	93	6.71	June 1	79	12.0
July 10	83	84.1	Oct. 4	82	2.11	July 7	80	8.43
Aug. 2	78	32.5	Nov. 8	60	1.98	Aug. 9	88	75.4
Sept. 7	85	97.5	Dec. 13	34	22.2	Sept. 1	76	2,310
Oct. 5	76	33.5	Jan. 10, 1964	38	11.6	Sept. 13	78	205
Nov. 1	68	43.7	Feb. 14	50	26.1			

RED RIVER BASIN

7-3121. Wichita River near Mabelle, Tex.

Location.--Lat 33°45'35", long 99°08'35", at bridge on U. S. Highways 183 and 283, 0.3 mile downstream from Lake Kemp Dam, 6 miles north of Mabelle, and 13 miles northeast of Seymour, Baylor County.

Drainage area.--2,086 sq mi, all of which is above Lake Kemp Dam.

Remarks.--Flow completely regulated by Lake Kemp.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 21, 1957	67	3,210	Nov. 1, 1961	65	141	Nov. 8, 1963	63	248
Apr. 2, 1958	58	239	Dec. 5	52	3.11	Dec. 13	40	3.97
May 1	60	1,210	Jan. 5, 1962	42	3.50	Jan. 10, 1964	43	2.76
May 15	64	1,900	Feb. 6	40	2.98	Feb. 14	49	3.84
May 16	67	33.9	Mar. 5	49	133	Mar. 12	60	3.49
May 16	66	10.5	Apr. 3	55	120	Apr. 9	56	244
Jan. 4, 1960	43	3.47	Apr. 11	64	3.55	May 6	75	5.29
Feb. 2	49	3.14	May 1	65	3.12	June 5	80	5.06
Feb. 26	40	3.08	June 6	76	4.62	Sept. 17	80	6.42
Mar. 11	52	2.89	July 2	84	4.81	Oct. 23	68	4.64
Apr. 8	53	378	Aug. 3	75	5.46	Nov. 13	50	2.62
May 5	68	149	Sept. 12	84	4.02	Dec. 28	46	4.44
July 8	84	4.91	Oct. 5	75	3.85	Jan. 27, 1965	39	2.95
Aug. 4	91	678	Nov. 9	60	4.51	Feb. 26	54	2.82
Sept. 9	79	12.0	Dec. 6	55	5.00	Apr. 2	63	2.60
Oct. 6	75	2.98	Jan. 16, 1963	38	4.52	Apr. 30	66	6.18
Nov. 3	64	732	Jan. 28	36	3.18	June 1	72	5.92
Dec. 5	54	3.93	Feb. 15	48	2.80	June 30	78	469
Jan. 6, 1961	44	3.52	Mar. 8	47	175	Nov. 4	63	5.22
Feb. 2	51	3.40	Apr. 5	57	5.13	Feb. 18	43	2.67
Mar. 1	58	2.85	May 8	69	4.73	Mar. 23	54	298
May 4	64	108	June 10	83	4.68	Apr. 27	68	5.60
June 9	73	741	July 11	63	456	June 2	69	330
July 11	73	268	Aug. 9	80	490	July 7	78	436
Sept. 7	82	4.52	Sept. 5	80	61.6	Aug. 9	79	182
Oct. 5	65	3.02	Oct. 4	73	190	Sept. 13	76	6.52

RED RIVER BASIN

7-3122. Beaver Creek near Electra, Tex.

Location.--Lat 33°54'20", long 96°54'15", at bridge on Farm Road 2326, 6.5 miles northwest of Kumay, 8 miles upstream from Wichita River, and 9 miles south of Electra, Wichita County.

Drainage area.--652 sq mi.

Remarks.--Some regulation by Santa Rosa Lake (capacity, 11,570 acre-ft) about 30 miles upstream.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 9, 1960	45	7.38	Mar. 22, 1961	53	45.1	Mar. 10, 1964	56	0.64
Mar. 29	64	2.80	Apr. 5	55	17.5	Apr. 7	63	.90
Apr. 8	68	.43	May 5	65	867	Apr. 25	65	432
Apr. 19	63	1.70	May 6	67	342	Apr. 25	67	290
Apr. 28	77	4.15	May 9	78	218	Apr. 25	69	167
May 5	68	249	June 9	89	3.30	Apr. 28	77	5.88
May 5	68	229	Sept. 11	83	2.42	May 4	88	.07
May 6	60	213	Oct. 4	68	12.2	May 8	66	492
May 7	60	49.4	Nov. 1	68	2.59	July 8	86	15.6
May 24	75	70.0	Dec. 5	52	3.70	Aug. 11	89	.23
May 27	83	57.8	Jan. 5, 1962	41	2.69	Nov. 17	52	670
June 14	83	7.92	Feb. 5	48	1.51	Nov. 17	52	875
June 23	83	.06	Mar. 5	45	.96	Nov. 20	43	517
July 6	78	1,290	Apr. 2	57	48.0	Nov. 24	44	7.20
July 6	78	927	May 3	80	1.33	Dec. 29	48	.76
July 6	78	576	June 12	77	592	Jan. 26, 1965	46	.72
July 12	98	6.62	July 2	88	.86	Mar. 31	62	.06
Aug. 3	81	1.15	Sept. 5	75	7.29	Apr. 30	74	4.97
Sept. 9	82	6.52	Oct. 2	68	2.04	May 28	65	1,330
Sept. 24	74	76.3	Nov. 9	54	1.04	July 28	90	7.44
Oct. 6	78	10.9	Nov. 7	47	2.17	Aug. 27	92	3.21
Oct. 28	67	15.5	Dec. 7	42	.55	Oct. 6	64	248
Nov. 3	57	2.32	Jan. 7, 1963	38	1.66	Nov. 5	63	2.13
Nov. 22	58	1.06	Feb. 12	38	1.66	Feb. 17, 1966	47	.21
Dec. 5	51	11.3	Mar. 6	49	.91	Mar. 24	54	.38
Jan. 6, 1961	39	3.31	Apr. 5	57	3.25	Apr. 26	68	103
Feb. 2	46	1.45	May 3	71	3.51	June 2	90	.67
Mar. 1	51	1.22	June 14	90	14.4	July 7	92	3.77
Mar. 11	59	265	July 9	75	7.69	July 12	79	140
Mar. 17	54	11,500	Aug. 6	93	4.45	July 12	87	58.0
Mar. 17	54	10,300	Sept. 3	83	5.64	July 13	80	31.8
Mar. 18	52	3,620	Oct. 1	71	.22	Aug. 12	76	3.80
Mar. 19	48	576	Dec. 10	45	14.8	Sept. 19	75	817
Mar. 21	50	302	Jan. 10, 1964	41	8.40			
			Feb. 11	45	1.11			

RED RIVER BASIN

7-3125. Wichita River at Wichita Falls, Tex.

Location.--Lat 33°54'30", long 96°32'05", at bridge on Beverly Drive in Wichita Falls, Wichita County, 4 miles upstream from Fort Worth and Denver Railway Co. bridge, and 8.4 miles upstream from Holliday Creek.

Drainage area.--3,140 sq mi.

Remarks.--Flow from 2,086 sq mi is regulated by Lake Kemp (capacity, 461,800 acre-ft) 71 miles upstream.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 10, 1948	45	61.9	Apr. 15, 1952	59	117	July 18, 1956	92	80.1
Jan. 17, 1949	32	54.6	May 6	84	59.9	Aug. 14	85	175
Feb. 1	34	112	May 22	83	61.5	Sept. 11	88	108
Feb. 11	52	122	June 24	83	80.8	Sept. 25	85	48.3
Mar. 4	59	165	July 23	82	73.8	Oct. 24	75	48.3
Mar. 30	69	72.4	Aug. 21	92	134	Nov. 21	57	81.5
Apr. 14	65	34.1	Oct. 27	68	77.3	Dec. 22	53	68.7
Apr. 27	75	49.8	Nov. 26	44	103	Feb. 26, 1959	60	52.2
June 2	80	78.0	Jan. 22, 1953	55	40.8	Apr. 21	58	134
June 27	84	484	Feb. 13	54	61.0	Apr. 29	80	68.1
June 28	87	291	Feb. 25	57	32.7	May 28	86	72.8
July 28	88	154	Mar. 10	56	38.2	June 18	82	69.5
Aug. 30	79	105	Mar. 31	67	38.4	July 23	83	104
Sept. 9	79	229	Apr. 23	72	56.4	Aug. 26	85	82.5
Sept. 16	67	548	Aug. 13	88	298	Sept. 29	71	109
Sept. 17	68	805	Sept. 2	84	55.9	Feb. 26, 1960	38	39.8
Sept. 18	79	412	Nov. 16	62	60.6	Mar. 30	70	49.5
Oct. 5	74	309	Jan. 7, 1954	50	45.6	Apr. 28	65	90.6
Oct. 19	74	63.0	Feb. 4	49	37.0	May 13	69	49.1
Oct. 25	58	1,500	Apr. 7	69	51.4	June 16	75	126
Oct. 26	57	742	Apr. 23	76	42.4	July 5	80	136
Oct. 26	61	706	Apr. 29	90	105	Aug. 4	66	96.4
Oct. 27	59	617	Aug. 27	82	123	Sept. 9	84	86.8
Oct. 28	59	454	Sept. 27	81	86.4	Nov. 8	59	567
Nov. 8	62	386	Nov. 29	50	48.8	Dec. 5	53	117
Nov. 23	55	66.9	Jan. 3, 1955	58	67.5	Jan. 9, 1961	40	64.2
Dec. 28	46	429	Jan. 28	43	36.5	Mar. 1	47	38.7
Jan. 11, 1950	45	399	Feb. 18	56	34.2	Mar. 18	53	4,210
Feb. 8	58	144	Mar. 22	49	250	Apr. 4	64	986
Feb. 24	61	58.6	Apr. 4	72	41.4	May 6	70	1,230
Mar. 8	55	54.6	July 8	83	103	June 21	78	242
Mar. 29	64	102	July 8	83	95.7	July 19	83	124
Apr. 26	66	75.5	July 29	87	120	Sept. 11	83	76.3
May 3	69	607	Aug. 11	83	127	Nov. 1	68	82.7
May 13	66	5,830	Sept. 12	77	182	Dec. 5	55	40.1
May 17	74	815	Nov. 18	48	192	Jan. 3, 1962	48	50.9
May 28	66	2,210	Nov. 28	41	150	Feb. 5	47	42.5
June 28	84	61.1	Dec. 5	39	126	Mar. 5	53	68.8
July 6	82	163	Jan. 20, 1956	38	89.8	Apr. 6	55	152
Aug. 4	81	8,000	Mar. 13	48	52.5	May 4	70	95.4
Aug. 5	82	5,270	Apr. 2	76	105	June 11	81	535
Aug. 10	81	732	Apr. 24	67	105	July 2	90	115
Aug. 12	81	1,830	May 26	72	296	Aug. 14	88	117
Aug. 19	79	2,490	June 15	88	97.9	Oct. 2	72	79.2
Aug. 24	76	1,290	July 19	85	128	Nov. 6	68	52.0
Aug. 24	78	7,620	Sept. 26	80	127	Dec. 7	53	94.0
Aug. 25	80	6,890	Nov. 14	68	51.4	Jan. 7, 1963	48	37.5
Aug. 25	81	6,020	Dec. 6	60	40.0	Jan. 13	33	40.1
Aug. 26	81	2,420	Dec. 27	52	43.0	Jan. 22	45	38.3
Sept. 21	79	2,520	Feb. 15, 1957	64	29.5	Jan. 24	32	25.3
Oct. 12	70	2,090	Mar. 12	67	32.5	Jan. 25	32	23.4
Oct. 25	69	964	Apr. 5	64	34.5	Jan. 26	37	37.9
Nov. 1	70	248	May 2	63	2,780	Jan. 28	37	35.6
Dec. 18	47	93.4	May 3	63	7,020	Feb. 12	43	37.1
Jan. 4, 1951	42	75.2	May 8	67	1,260	Mar. 6	43	30.5
Jan. 25	46	75.6	June 17	82	519	Apr. 3	66	116
Feb. 20	57	106	July 15	84	183	May 3	72	69.2
Mar. 14	51	107	Aug. 23	84	127	July 8	78	193
Mar. 28	59	74.6	Oct. 2	75	70.3	Aug. 13	86	161
Apr. 10	70	73.8	Oct. 10	65	394	Sept. 3	87	148
Apr. 26	75	82.5	Oct. 30	64	66.4	Oct. 1	64	49.1
May 20	74	6,230	Nov. 7	52	2,160	Nov. 5	68	56.7
May 21	76	3,840	Nov. 7	54	1,640	Dec. 11	41	51.3
May 25	69	810	Nov. 8	54	572	Jan. 8, 1964	45	37.2
June 15	74	136	Dec. 10	46	55.6	Jan. 14	32	26.9
July 14	79	101	Jan. 10, 1958	44	47.5	Jan. 15	32	18.4
Aug. 23	58	421	Feb. 6	50	46.9	Jan. 16	41	39.2
Sept. 26	83	89.3	Feb. 19	40	349	Feb. 11	53	47.1
Oct. 9	36	61.8	Feb. 19	43	377	Mar. 10	50	76.9
Oct. 11	64	298	Mar. 28	58	44.6	Apr. 7	58	69.6
Oct. 12	65	356	Apr. 25	67	1,070	Apr. 27	66	359
Oct. 18	70	396	May 4	68	5,230	May 4	82	54.3
Oct. 29	69	204	May 21	75	1,080	June 3	78	96.0
Nov. 19	49	66.3	May 21	78	1,000	July 8	84	102
Dec. 10	45	50.0	May 29	81	579	Aug. 11	83	134
Jan. 16, 1952	53	56.0	June 16	83	144	Oct. 21	59	62.4
Feb. 20	49	62.3	June 26	70	103	Nov. 20	46	1,920
Mar. 24	45	81.8	July 2	81	85.2	Nov. 25	45	82.6

RED RIVER BASIN

7-3125. Wichita River at Wichita Falls, Tex., cont.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 31, 1964	51	62.8	Aug. 27, 1965	84	91.1	July 12, 1966	81	2,310
Jan. 26, 1965	51	63.3	Oct. 6	65	92.4	Aug. 12	86	89.9
Feb. 24	42	43.3	Nov. 2	66	54.4	Sept. 14	81	299
Mar. 31	65	32.0	Dec. 9	56	50.0	Sept. 19	72	4,090
May 3	74	57.3	Jan. 11, 1966	56	36.1	Sept. 20	74	4,570
June 7	79	47.5	Feb. 17	44	34.3	Sept. 21	74	2,650
July 6	82	111	June 3	81	90.3	Sept. 22	75	1,580
July 29	81	132	July 7	91	82.2			

RED RIVER BASIN

7-3145. Little Wichita River near Archer City, Tex.

Location.--Lat 33°40', long 98°36', at downstream side of bridge on State Highway 79, 1.5 miles downstream from confluence of North and Middle Forks and 4.8 miles north of Archer City, Archer County.

Drainage area.--481 sq mi.

Water temperature records available.--Once-daily readings from December 1952 to September 1955

Remarks.--No flow at times. Average water temperature computed for those months with ten or more days of flow.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1953	Mean	-	-	-	-	-	56	64	66	-	81	77	-
	Max.-Min.	- -	- -	- -	- -	- -	60 46	75 56	78 57	- -	85 76	81 72	- -
1954	Mean	60	51	45	-	-	-	64	62	75	-	-	-
	Max.-Min.	68 54	61 44	54 35	- -	- -	- -	71 51	75 51	85 65	- -	- -	- -
1955	Mean	-	-	-	44	42	-	62	70	74	79	-	74
	Max.-Min.	- -	- -	- -	58 36	48 33	- -	88 48	77 64	80 64	82 75	- -	79 68
1953-55	Mean	60	51	45	44	42	56	63	66	74	80	77	74
	Max.-Min.	68 54	61 44	54 35	58 36	48 33	60 46	88 48	78 51	85 64	85 75	81 72	79 68

RED RIVER BASIN

7-3150. Little Wichita River near Henrietta, Tex.

Location.--Lat 33°50'00", long 96°12'30", at bridge on State Highway 148, 1.5 miles northwest of Henrietta, Clay County, 4 miles upstream from Turkey Creek, and 5 miles upstream from Dry Fork Little Wichita River.

Drainage area.--1,037 sq mi.

Water temperature records available.--Once daily readings December 1952 to January 1956, March 1959 to September 1966.

Remarks.--Some regulation by Lake Kickapoo. No flow at times. Average water temperature computed for those months with 10 or more days of flow.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1953	Mean	-	-	-	-	-	64	-	72	-	85	82	-
	Max.-Min.	-	-	-	-	-	71-57	-	92-55	-	92-80	91-78	-
1954	Mean	68	57	49	-	-	-	71	70	82	-	-	-
	Max.-Min.	79-60	65-51	58-44	-	-	-	80-62	83-52	75-74	-	-	-
1955	Mean	-	-	-	47	49	59	67	77	80	-	-	80
	Max.-Min.	-	-	-	51-41	62-43	72-45	78-43	87-69	89-67	-	-	84-75
1959	Mean	-	-	-	-	-	-	-	76	82	85	-	80
	Max.-Min.	-	-	-	-	-	-	-	84-73	86-78	88-80	-	87-68
1960	Mean	69	54	50	47	48	51	-	82	85	88	-	-
	Max.-Min.	78-60	69-40	54-44	55-39	54-39	69-35	-	86-76	88-80	97-83	-	-
1961	Mean	70	61	42	45	53	59	59	75	82	86	-	76
	Max.-Min.	78-59	67-52	45-38	59-38	67-41	70-50	65-50	80-64	90-70	90-80	-	85-67
1962	Mean	70	54	47	-	-	-	68	77	80	85	88	77
	Max.-Min.	76-64	65-50	59-37	-	-	-	87-57	80-74	89-72	92-77	89-86	86-70
1963	Mean	74	57	49	41	46	-	72	77	85	89	-	81
	Max.-Min.	82-60	61-48	59-39	48-32	53-40	-	82-60	88-67	90-77	94-82	-	86-71
1964	Mean	72	58	43	-	48	58	71	74	80	83	83	72
	Max.-Min.	76-66	68-50	51-36	-	56-44	64-52	76-64	80-65	89-66	-	88-79	77-65
1965	Mean	67	61	61	64	65	-	70	75	82	-	80	79
	Max.-Min.	74-58	75-47	68-54	75-56	80-50	-	78-60	82-67	88-78	-	90-73	87-70
1966	Mean	67	52	52	48	49	62	67	74	80	84	80	73
	Max.-Min.	75-62	66-54	61-47	58-32	58-37	71-50	75-61	88-59	84-76	87-76	88-66	82-69
1953-66	Mean	70	58	49	49	51	59	68	75	82	86	83	77
	Max.-Min.	82-58	75-40	68-36	75-32	80-37	73-35	87-43	92-52	95-66	97-77	91-66	87-65

RED RIVER BASIN

7-3154. Little Wichita River near Ringgold, Tex.

Location.--Lat 33°53'55", long 96°04'05", at bridge on abandoned county road, 2 miles downstream from East Fork Little Wichita River, 8 miles northwest of Ringgold, Montague County, 11.5 miles upstream from mouth, and 13 miles downstream from gaging station near Henrietta.

Drainage area.--1,350 sq mi, approximately.

Remarks.--Some regulation by Lake Kickapoo on North Fork Little Wichita River.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 25, 1959	60	.05	July 13, 1960	72	3.25	Dec. 18, 1962	47	18.0
Mar. 25	65	.04	Oct. 16	65	1,430	Jan. 15, 1963	33	4.86
Apr. 20	67	15.4	Dec. 13	37	949	Feb. 13	37	1.88
Apr. 20	68	19.5	Jan. 16, 1961	35	9.07	May 16	78	1.31
Apr. 20	64	87.4	Feb. 15	52	25.5	June 14	90	.20
Apr. 21	61	61.4	May 16	69	.54	Sept. 17	76	17.1
Apr. 24	72	1.24	June 27	76	2,590	Dec. 17	38	7.73
May 14	71	196	July 21	87	9.71	Feb. 12, 1964	45	11.7
May 25	78	1.12	Sept. 18	71	25.1	Mar. 12	50	31.0
June 24	76	4,090	Oct. 17	64	2.42	Apr. 30	67	33.0
July 10	72	43.9	Nov. 16	50	97.6	June 8	86	3.16
July 20	82	102	Dec. 13	33	71.3	Oct. 14	62	2.81
July 23	84	29.2	Dec. 29	38	1.55	Dec. 16	43	1.38
Sept. 29	76	10.3	Apr. 19, 1962	73	.37	Feb. 10, 1965	46	102
Oct. 10	66	1,000	June 4	73	545	May 17	72	305
Oct. 27	65	.55	June 20	74	178	Aug. 17	73	1,230
Feb. 29, 1960	36	3.62	July 10	88	1.44	Sept. 13	85	.07
Apr. 8	65	1.23	Oct. 2	66	12.1	Oct. 8	68	.35
May 23	79	10.9	Nov. 9	55	7.19			

RED RIVER BASIN

7-3155. Red River near Terral, Okla.

Location.--Lat 33° 52' 50", long 97° 56' 15", at bridge on U. S. Highway 81, a quarter of a mile downstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 1.2 miles south of Terral, Jefferson County, and 3.2 miles downstream from Little Wichita River.

Drainage area.--28,723 sq mi, of which 5,936 sq mi is probably noncontributing.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 23, 1948	46	99.0	May 18, 1951	67	36,300	Aug. 4, 1953	89	334
Dec. 1	48	101	May 19	70	123,000	Aug. 20	77	13,000
Dec. 15	67	186	May 19	70	157,000	Aug. 26	63	1,280
Dec. 30	42	118	May 20	73	143,000	Sept. 10	64	198
Jan. 17, 1949	33	233	May 21	73	202,000	Sept. 17	85	107
Feb. 1	33	327	May 23	73	38,200	Oct. 6	64	1,770
Feb. 17	46	3,390	May 25	71	11,700	Nov. 13	63	792
Feb. 28	54	804	June 9	74	32,100	Nov. 23	46	3,270
Mar. 16	52	318	June 13	68	25,100	Dec. 14	41	481
Mar. 30	62	1,440	June 15	69	13,500	Dec. 22	38	362
Apr. 15	57	295	July 5	70	15,900	Jan. 8, 1954	40	282
Apr. 27	74	266	July 12	74	1,120	Jan. 20	54	325
May 3	74	3,760	Aug. 3	93	636	Feb. 4	52	251
May 16	62	15,000	Aug. 10	82	420	Feb. 16	54	198
May 25	72	6,120	Aug. 17	83	513	Feb. 26	57	225
June 6	80	13,300	Aug. 24	62	1,420	Mar. 5	40	161
June 11	77	19,500	Aug. 28	84	1,270	Mar. 12	53	182
June 23	87	1,070	Sept. 14	72	1,130	Mar. 18	54	188
July 5	89	711	Sept. 25	77	341	Mar. 25	58	188
July 22	88	392	Oct. 9	72	214	Mar. 31	48	189
Aug. 23	84	315	Oct. 18	71	542	Apr. 7	68	152
Sept. 2	82	194	Nov. 7	54	742	Apr. 13	59	2,800
Sept. 9	74	4,210	Nov. 15	59	256	July 1	88	475
Sept. 19	78	2,270	Nov. 30	54	283	July 16	90	255
Oct. 5	76	239	Dec. 10	38	246	July 28	82	202
Oct. 20	74	293	Dec. 20	34	224	Aug. 12	88	175
Oct. 25	66	5,130	Jan. 2, 1952	32	258	Aug. 27	84	1,260
Oct. 27	60	5,990	Jan. 11	44	370	Sept. 22	76	108
Nov. 3	61	557	Jan. 21	60	300	Oct. 7	72	203
Nov. 10	65	582	Jan. 4	52	240	Oct. 28	60	107
Nov. 15	56	337	Feb. 14	54	254	Nov. 10	60	158
Nov. 23	52	227	Feb. 28	54	310	Nov. 19	53	110
Dec. 1	52	213	Mar. 13	62	302	Nov. 29	44	99.0
Dec. 9	44	572	Mar. 25	53	381	Dec. 15	40	364
Dec. 16	42	606	Apr. 4	63	254	Jan. 3, 1955	60	132
Dec. 28	44	740	Apr. 15	76	347	Jan. 11	45	137
Jan. 10, 1950	48	412	May 1	64	4,700	Jan. 20	36	272
Feb. 6	62	330	May 2	70	4,900	Jan. 28	47	122
Feb. 17	49	3,780	May 9	80	507	Feb. 8	54	505
Feb. 24	55	560	May 13	75	384	Feb. 18	55	112
Mar. 8	50	310	May 19	61	29,800	Feb. 28	60	112
Mar. 17	58	296	May 20	65	26,100	Mar. 10	60	94.9
Mar. 29	59	245	May 21	69	18,500	Mar. 23	51	2,330
Apr. 7	59	207	May 23	70	3,130	Apr. 1	51	171
Apr. 26	72	346	May 29	67	10,500	Apr. 8	63	360
May 4	70	3,740	June 12	80	607	Apr. 19	68	107
May 12	68	48,000	June 25	79	233	June 3	75	1,340
May 13	70	26,100	July 3	65	293	June 14	75	2,510
May 16	76	7,610	July 17	82	3,880	July 12	90	730
May 19	80	2,720	July 24	86	454	July 28	89	747
May 27	66	11,700	July 30	92	212	Aug. 9	92	1,520
June 2	75	1,380	Aug. 6	87	246	Aug. 15	87	461
June 5	70	9,200	Aug. 20	90	198	Aug. 22	86	358
June 13	83	3,770	Sept. 3	75	180	Aug. 29	89	268
June 14	82	4,870	Sept. 15	81	247	Sept. 10	80	263
June 23	81	5,920	Sept. 25	78	187	Sept. 17	78	222
June 28	79	1,190	Oct. 3	72	118	Oct. 10	67	11,100
July 6	81	4,210	Oct. 10	65	126	Oct. 13	67	5,100
July 9	80	10,500	Oct. 30	55	101	Nov. 21	55	649
Aug. 18	79	4,270	Nov. 7	62	113	Nov. 28	40	537
Sept. 1	77	2,870	Nov. 20	52	95.8	Dec. 5	39	584
Sept. 8	74	12,400	Dec. 2	45	157	Dec. 15	38	476
Sept. 20	76	12,900	Dec. 12	50	104	Dec. 28	52	488
Oct. 6	74	3,060	Dec. 22	43	416	Jan. 6, 1956	46	413
Oct. 24	68	1,490	Dec. 31	50	135	Jan. 13	38	395
Nov. 2	65	614	Jan. 9, 1953	45	105	Jan. 20	34	418
Nov. 13	56	503	Jan. 22	49	109	Feb. 1	43	442
Nov. 22	52	484	Feb. 3	53	98.8	Feb. 9	42	444
Dec. 8	32	555	Feb. 13	50	143	Mar. 1	52	318
Dec. 19	40	468	Feb. 25	47	130	Mar. 13	46	215
Jan. 4, 1951	49	399	Mar. 10	54	261	Mar. 22	46	238
Jan. 16	46	473	Mar. 17	67	2,050	Apr. 2	68	242
Feb. 6	52	443	Mar. 31	67	355	Apr. 11	56	244
Feb. 20	54	664	Apr. 14	60	498	Apr. 24	66	232
Mar. 1	57	656	Apr. 23	68	214	May 14	74	523
Mar. 14	43	1,110	May 1	68	194	June 15	82	887
Mar. 27	62	398	May 27	88	149	June 26	86	343
Apr. 9	64	313	June 4	84	76.9	July 12	78	623
Apr. 27	79	390	June 16	89	316	July 26	94	562
May 15	65	584	July 3	85	573	Aug. 2	87	274

RED RIVER BASIN

7-3155. Red River near Terral, Okla.--Continued

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 9, 1956	94	191	Oct. 10, 1958	64	166	July 30, 1962	81	3,710
Aug. 23	89	217	Oct. 16	68	266	Aug. 30	80	309
Aug. 30	83	189	Oct. 24	64	124	Sept. 27	72	4,930
Sept. 6	75	131	Oct. 30	58	119	Oct. 17	68	376
Sept. 12	76	119	Nov. 7	57	139	Nov. 16	53	378
Sept. 26	78	119	Nov. 13	67	126	Dec. 6	56	5,960
Oct. 11	74	95.1	Nov. 21	50	193	Dec. 18	49	595
Oct. 31	60	642	Dec. 1	53	161	Dec. 28	42	622
Nov. 14	68	240	Dec. 11	44	149	Jan. 15, 1963	32	420
Nov. 22	45	131	Dec. 22	47	195	Jan. 30	33	477
Nov. 29	47	106	Jan. 2, 1959	39	239	Feb. 13	33	469
Dec. 6	61	105	Jan. 12	45	206	Feb. 27	50	555
Dec. 13	37	110	Jan. 29	49	221	Mar. 19	65	637
Dec. 20	44	787	Feb. 26	55	166	Mar. 28	72	347
Dec. 27	42	353	Mar. 30	64	184	Apr. 15	74	371
Jan. 3, 1957	46	131	Apr. 15	50	386	July 30	92	283
Jan. 10	40	111	Apr. 29	73	271	Aug. 15	87	219
Jan. 17	34	51.9	May 11	70	15,600	Aug. 29	88	227
Jan. 21	49	115	May 15	63	2,470	Sept. 17	85	274
Jan. 30	37	128	May 25	73	12,100	Sept. 30	82	209
Feb. 6	49	646	May 29	78	13,200	Oct. 17	71	94.3
Feb. 15	61	169	May 25	78	18,200	Oct. 30	60	357
Feb. 25	54	178	July 30	87	966	Nov. 15	60	103
Mar. 5	55	1,130	Aug. 12	87	403	Nov. 26	47	532
Mar. 12	57	404	Sept. 15	76	246	Dec. 17	42	189
Mar. 19	61	184	Oct. 27	62	495	Dec. 30	39	159
Mar. 26	48	678	Dec. 14	48	420	Jan. 16, 1964	33	140
Apr. 5	52	323	Feb. 16, 1960	48	1,540	Jan. 29	46	124
Apr. 12	47	406	Feb. 29	33	1,170	Feb. 12	51	799
Apr. 18	76	252	Mar. 11	42	917	Feb. 25	55	263
Apr. 25	69	35,400	Mar. 21	54	896	Mar. 12	57	456
June 1	73	19,600	Apr. 8	63	689	Mar. 26	50	204
June 6	74	38,600	Apr. 20	71	504	May 25	90	165
June 19	79	14,000	Apr. 28	62	502	June 25	82	378
June 27	81	1,960	May 13	71	533	July 14	90	139
July 5	86	1,040	May 31	81	725	July 29	96	132
July 15	89	678	Aug. 17	80	450	Aug. 12	82	147
July 29	91	3,420	Aug. 30	79	766	Sept. 14	71	90.0
Aug. 9	82	2,450	Sept. 19	79	254	Sept. 28	73	5,180
Aug. 23	90	456	Sept. 29	72	1,670	Oct. 14	68	1,240
Sept. 4	86	782	Oct. 14	76	188	Oct. 28	67	180
Sept. 16	80	364	Oct. 17	68	8,160	Dec. 17	32	477
Oct. 2	71	370	Oct. 26	66	10,600	Dec. 29	51	332
Oct. 18	64	2,600	Nov. 29	49	836	Jan. 13, 1965	46	520
Oct. 30	68	712	Dec. 14	39	4,370	Jan. 28	45	470
Nov. 21	52	1,100	Dec. 29	42	1,090	Feb. 23	47	256
Nov. 29	45	636	Jan. 16, 1961	37	973	Mar. 15	65	231
Dec. 10	46	438	Jan. 30	34	611	Mar. 29	54	218
Dec. 20	45	385	Feb. 15	60	1,380	Apr. 27	69	351
Dec. 30	47	388	Feb. 27	49	1,530	May 17	77	1,190
Jan. 10, 1958	47	360	Mar. 16	65	578	June 15	76	7,210
Jan. 22	40	1,170	Apr. 17	68	1,360	June 16	78	9,840
Jan. 30	48	976	Apr. 28	64	602	June 21	78	2,210
Feb. 10	38	506	May 16	75	802	July 19	88	574
Feb. 19	41	854	May 29	81	860	Aug. 5	86	205
Feb. 27	48	820	June 14	78	3,540	Aug. 17	76	1,860
Mar. 10	48	564	June 29	80	3,000	Aug. 25	89	375
Mar. 20	50	910	July 21	81	1,690	Sept. 13	89	270
Mar. 28	54	803	July 31	82	727	Oct. 7	71	966
Apr. 11	66	606	Sept. 18	78	1,620	Oct. 26	68	3,620
Apr. 22	70	4,700	Oct. 30	78	264	Nov. 17	59	634
Apr. 29	60	2,100	Nov. 16	49	1,160	Dec. 1	50	437
May 5	68	14,300	Nov. 30	46	648	Dec. 14	52	438
May 6	70	12,700	Dec. 13	33	720	Dec. 29	50	1,370
May 20	75	5,510	Dec. 29	36	493	Jan. 13, 1966	49	408
May 29	96	1,850	Jan. 17, 1962	38	518	Jan. 26	36	358
June 6	86	581	Jan. 30	50	739	Feb. 7	50	568
June 17	79	397	Feb. 27	37	489	Feb. 24	46	403
June 24	79	8,450	Mar. 16	48	314	Mar. 15	61	772
July 2	85	696	Mar. 29	60	298	Mar. 30	60	639
July 14	82	1,190	Apr. 19	72	309	Apr. 11	66	232
July 25	78	2,210	Apr. 27	64	1,960	May 10	63	553
July 31	80	1,830	May 1	63	4,550	May 24	78	309
Aug. 14	82	407	May 4	73	1,420	June 7	80	207
Aug. 20	83	308	May 15	76	381	June 21	80	1,380
Aug. 28	82	427	June 10	75	38,600	July 5	72	204
Sept. 5	83	186	June 22	75	8,720	Aug. 1	92	180
Sept. 11	83	228	June 28	80	1,930	Aug. 16	67	296
Sept. 25	78	222	July 10	91	598	Sept. 8	78	1,900
Oct. 2	60	357	July 19	85	616			

RED RIVER BASIN

7-3160. Red River near Gainesville, Tex.

Location.--Lat 33°43'40", long 97°09'35", at bridge on U. S. Highway 77, a quarter of a mile downstream from Gulf, Colorado and Santa Fe Railway Co. bridge, 5 miles downstream from Fish Creek, and 7 miles north of Gainesville.

Drainage area.--30,782 sq mi, of which 5,936 sq mi is probably noncontributing.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1953	Mean	62	57	49	52	53	62	61	71	83	82	83	84
	Max.-Min.	70 54	72 38	56 43	63 37	62 42	68 54	74 50	84 54	87 75	88 69	90 80	90 72
1954	Mean	69	58	48	48	57	57	71	70	84	90	89	83
	Max.-Min.	78 58	66 48	59 32	60 32	67 49	74 44	80 57	82 56	96 71	95 80	94 82	92 73
1955	Mean	70	58	43	44	46	56	64	74	76	81	82	76
	Max.-Min.	83 55	67 50	58 35	60 38	62 38	65 42	74 50	82 63	81 70	85 76	86 78	84 67
1956	Mean	68	54	43	40	49	58	64	77	82	84	86	80
	Max.-Min.	78 57	64 45	50 39	49 33	64 33	78 40	70 54	82 68	88 75	88 79	89 80	85 75
1957	Mean	70	55	46	44	53	56	63	71	79	88	87	78
	Max.-Min.	76 63	64 42	60 40	56 32	62 42	66 45	73 42	78 62	86 69	91 85	90 84	89 70
1958	Mean	65	52	48	45	46	51	62	75	81	82	83	78
	Max.-Min.	75 50	65 44	55 38	50 40	60 34	60 41	68 54	87 61	87 73	87 77	90 77	86 66
1959	Mean	66	58	40	43	47	57	64	73	75	81	85	77
	Max.-Min.	79 55	69 50	50 33	59 32	56 36	67 48	78 45	80 68	80 68	86 78	91 69	82 68
1960	Mean	65	48	43	38	42	48	67	74	80	83	82	74
	Max.-Min.	76 56	65 33	52 38	52 33	48 34	65 33	76 55	84 60	84 76	86 79	86 76	84 72
1961	Mean	67	55	45	41	49	57	61	71	77	82	82	76
	Max.-Min.	76 56	66 42	56 36	52 32	64 38	66 48	73 46	78 63	82 72	84 76	87 75	82 66
1962	Mean	67	52	44	38	51	53	63	77	81	83	83	76
	Max.-Min.	78 60	68 45	62 34	49 32	58 40	64 36	75 52	84 68	86 76	87 78	90 76	82 70
1963	Mean	68	55	46	39	46	57	67	75	81	84	85	77
	Max.-Min.	76 56	62 48	58 34	49 32	58 39	68 43	77 59	84 64	89 67	90 76	90 79	86 64
1953-63	Mean	67	55	45	43	49	56	64	73	80	84	84	78
	Max.-Min.	83 50	72 33	60 32	63 32	67 33	74 33	80 42	87 54	96 67	95 69	94 75	92 64

RED RIVER BASIN

7-3316. Red River at Denison Dam, near Denison, Tex.

Location.--Lat 33°49'00", long 96°33'47", 1,800 ft downstream from Denison Dam powerhouse, 0.4 mile upstream from Shawnee Creek (spillway flow return), 4½ miles north of Denison, Grayson County.

Drainage area.--39,720 sq mi, of which 5,936 sq mi is probably noncontributing.

Water temperature records available.--Once-daily readings from May 1944 to September 1966.

Remarks.--Flow regulated since Oct. 31, 1943, by Lake Texoma.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1944	Mean	-	-	-	-	-	-	-	-	72	73	76	74
	Max.-Min.	-	-	-	-	-	-	-	-	68 68	76 70	78 72	77 71
1945	Mean	70	63	49	47	48	54	61	66	71	77	77	77
	Max.-Min.	75 67	68 55	55 45	50 45	53 44	60 48	65 57	68 64	75 64	78 74	78 76	79 73
1946	Mean	68	62	51	48	48	54	61	66	72	75	75	74
	Max.-Min.	75 65	66 58	58 47	59 45	51 46	63 51	64 56	69 61	74 69	76 72	76 73	76 72
1947	Mean	70	63	56	47	46	46	55	64	74	76	78	78
	Max.-Min.	73 67	68 58	59 50	50 46	47 44	50 43	60 50	70 60	76 69	77 76	79 77	82 75
1948	Mean	75	63	54	47	43	48	56	66	71	76	77	77
	Max.-Min.	76 71	71 57	58 51	52 43	47 41	52 43	60 51	69 63	75 68	79 71	80 73	79 74
1949	Mean	71	60	53	46	44	49	57	63	72	74	76	76
	Max.-Min.	75 67	67 54	55 49	50 40	49 41	58 45	59 53	69 59	77 66	76 68	79 71	80 74
1950	Mean	74	64	56	52	51	54	59	67	73	77	79	-
	Max.-Min.	75 61	66 61	60 53	54 49	54 49	56 52	62 57	70 62	75 70	78 76	80 78	-
1951	Mean	74	63	52	49	45	50	56	64	73	78	80	81
	Max.-Min.	78 72	72 58	58 49	51 45	47 42	53 48	60 53	70 60	76 70	80 71	81 79	81 76
1952	Mean	72	59	54	50	53	55	59	66	71	76	79	78
	Max.-Min.	76 68	67 56	57 50	52 48	54 52	58 53	63 57	70 63	74 69	77 74	80 77	79 77
1953	Mean	69	63	53	49	50	54	60	66	72	77	80	79
	Max.-Min.	77 60	65 57	56 50	50 47	53 49	59 50	64 58	69 64	75 70	80 72	81 79	80 77
1954	Mean	74	64	55	48	48	51	58	64	70	74	77	77
	Max.-Min.	78 69	69 59	68 47	48 43	52 45	54 49	65 52	68 61	73 68	75 72	79 76	79 73
1955	Mean	70	61	52	49	48	52	56	64	73	77	79	79
	Max.-Min.	77 63	66 54	56 49	50 48	49 47	54 48	60 52	69 59	75 69	79 73	80 77	80 78
1956	Mean	74	62	52	47	46	51	58	66	72	77	80	77
	Max.-Min.	78 68	68 56	55 49	49 45	49 43	55 49	61 54	70 56	78 68	79 75	81 76	78 76
1957	Mean	74	62	52	48	47	52	58	67	75	78	79	78
	Max.-Min.	77 69	69 55	57 47	52 44	50 44	54 49	63 54	71 64	77 72	79 76	79 78	79 77
1958	Mean	72	60	53	49	47	49	55	63	66	72	76	76
	Max.-Min.	77 65	64 55	57 51	51 48	49 45	52 47	60 52	65 60	70 65	76 69	77 72	77 70
1959	Mean	71	62	54	46	47	50	57	64	70	76	79	78
	Max.-Min.	73 68	67 59	59 49	49 44	50 44	53 47	61 53	67 59	73 69	78 73	79 78	79 77
1960	Mean	72	61	52	48	47	45	55	64	68	73	75	74
	Max.-Min.	77 67	67 54	54 51	60 48	52 44	48 43	59 50	68 60	71 66	79 73	78 73	77 72
1961	Mean	73	63	54	47	45	51	56	65	69	74	77	75
	Max.-Min.	76 68	68 60	60 49	48 47	47 44	54 47	59 55	68 60	72 67	74 69	74 71	75 72
1962	Mean	71	61	54	48	-	48	55	60	69	74	77	77
	Max.-Min.	72 68	63 58	59 50	48 40	-	50 46	58 52	61 58	75 61	76 73	78 74	78 75
1963	Mean	73	63	55	45	41	47	57	66	71	78	80	78
	Max.-Min.	76 70	69 58	58 50	50 40	42 40	50 43	62 52	72 62	74 68	80 74	80 74	80 74
1964	Mean	75	65	56	48	46	54	61	68	75	80	80	80
	Max.-Min.	78 72	70 60	58 46	48 42	47 45	54 48	64 54	68 64	75 69	80 75	80 80	80 74
1965	Mean	73	63	58	48	45	45	52	61	64	71	77	76
	Max.-Min.	73 64	66 58	58 48	50 46	46 44	47 45	56 46	61 56	64 61	71 63	77 71	80 76
1966	Mean	70	61	53	42	39	40	45	57	69	73	74	76
	Max.-Min.	76 66	64 56	56 47	46 39	39 38	41 39	48 41	68 47	72 66	74 72	75 74	76 75
1944-66	Mean	72	62	53	47	46	50	57	64	71	75	77	77
	Max.-Min.	78 60	72 54	68 45	60 39	56 38	63 39	65 41	72 47	78 61	80 63	81 71	82 70

RED RIVER BASIN

7-3326. Bois d'Arc Creek near Randolph, Tex.

Location.--Lat $33^{\circ}28'30''$, long $96^{\circ}12'55''$, at bridge on Farm Road 1261, 2.3 miles upstream from Henson Creek, and 2.4 miles east of Randolph, Fannin County.

Drainage area.--72 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 27, 1962	56	176	July 7, 1964	93	0.03	Oct. 20, 1965	73	1.02
Nov. 27	56	153	Oct. 12	62	7.77	Nov. 30	50	1.12
Nov. 30	58	40.6	Nov. 20	51	109	Jan. 11, 1966	56	.57
Dec. 6	56	29.3	Jan. 6, 1965	54	15.4	Feb. 18	50	14.9
Jan. 15, 1963	34	9.26	Feb. 3	36	14.7	Mar. 30	70	6.08
Mar. 25	76	8.80	Mar. 8	54	19.5	Apr. 24	65	408
May 1	67	32.0	Apr. 13	72	9.63	May 2	62	131
June 10	93	1.61	May 27	73	10.0	June 1	84	8.59
Mar. 31, 1964	68	.05	June 30	95	2.85	Sept. 29	69	.15
June 2	79	12.0						

RED RIVER BASIN

7-3368. Pecan Bayou near Clarksville, Tex.

Location.--Lat $31^{\circ}41'07''$, long $94^{\circ}59'41''$, at bridge on Farm Road 1159, 0.2 mile downstream from Tanyard Bayou, 4.3 miles upstream from Little White Oak Creek, and 6.0 miles northeast of Clarksville, Red River County.

Drainage area.--100 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 29, 1961	49	8.49	Oct. 17, 1962	73	86.7	Feb. 2, 1965	40	5.88
Jan. 5, 1962	46	36.8	Nov. 28	57	285	Apr. 21	75	1.96
Feb. 6	45	19.9	Jan. 16, 1963	57	6.21	May 25	78	12.6
Mar. 16	48	28.6	Feb. 20	43	2.29	July 7	72	.26
Apr. 22	66	35.6	Mar. 26	65	654	Oct. 27	56	.03
May 1	66	794	May 1	64	30.8	Feb. 8, 1966	57	.37
May 2	66	710	Apr. 2, 1964	63	15.1	Mar. 15	65	1.97
May 26	78	.24	June 5	74	3.25	May 12	76	10.8
July 7	88	2.68	Dec. 1	41	.24	June 14	91	.03
Sept. 12	82	5.26	Jan. 5, 1965	54	12.6			

RED RIVER BASIN

7-3425. South Sulphur River near Cooper, Tex.

Location.--Lat $33^{\circ}21'$, long $95^{\circ}36'$, at bridge on State Highway 194, 0.6 mile downstream from Big Creek, 1.0 mile upstream from Brushy Creek, 3.5 miles downstream from Doctors Creek, and 5.7 miles southeast of Cooper, Delta County.

Drainage area.--527 sq mi.

Water temperature records available.--Once daily readings from October 1958 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1959	Mean	-	-	50	49	53	59	65	77	81	85	-	-
	Max.-Min.	-	-	55 42	56 42	63 43	68 50	75 56	80 70	89 72	90 76	-	-
1960	Mean	72	59	56	55	51	55	76	81	86	88	90	-
	Max.-Min.	81 55	77 43	63 45	68 45	60 43	75 40	85 64	90 69	94 78	95 82	97 80	-
1961	Mean	77	67	55	52	59	69	74	81	84	89	88	83
	Max.-Min.	84 69	75 57	68 48	58 40	70 43	77 55	81 66	87 74	89 75	92 85	94 82	90 76
1962	Mean	75	63	53	-	62	63	71	81	81	86	89	83
	Max.-Min.	82 70	78 55	65 45	-	70 54	72 54	80 61	88 71	87 75	93 79	97 75	89 76
1963	Mean	-	64	57	48	51	66	73	79	82	86	-	-
	Max.-Min.	-	70 55	66 44	61 38	60 42	78 55	82 64	86 62	91 74	94 78	-	-
1964	Mean	-	-	-	-	-	-	71	79	82	86	-	-
	Max.-Min.	-	-	-	-	-	-	74 67	82 64	89 71	-	-	-
1965	Mean	68	-	53	54	45	57	74	75	81	-	-	-
	Max.-Min.	72 64	-	65 39	65 41	60 40	69 50	80 63	82 70	86 75	-	-	-
1966	Mean	68	63	55	47	48	60	69	73	84	87	83	-
	Max.-Min.	80 60	68 54	63 47	57 32	57 33	70 46	76 65	79 60	82 78	96 79	90 74	-
1959-66	Mean	72	63	54	51	53	61	72	77	83	87	88	83
	Max.-Min.	84 55	78 43	68 39	68 32	70 33	78 40	85 56	90 60	94 71	96 76	97 74	90 76

RED RIVER BASIN

7-3430. North Sulphur River near Cooper, Tex.

Location.--Lat 33°28', long 95°35' at bridge on State Highway 24, 4.9 miles upstream from Auds Creek, 7.3 miles upstream from Click Creek, and 8.6 miles northeast of Cooper, Delta County.

Drainage area.--276 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 30, 1949	50	14.9	Mar. 7, 1955	60	5.55	Nov. 20, 1960	54	13.1
Jan. 16, 1950	50	234	Mar. 26	42	27.2	Dec. 17	44	54.8
Feb. 6	60	191	Apr. 11	74	77.6	Jan. 31, 1961	45	34.5
Mar. 6	59	19.7	May 9	81	4.33	Mar. 4	63	30.9
Apr. 7	58	3.49	July 18	83	369	Mar. 13	67	15.8
May 2	62	2,220	July 21	93	10.5	Mar. 29	54	11,100
May 4	62	99.4	Jan. 23, 1956	43	43.6	Apr. 25	70	13.7
June 2	65	11.9	Feb. 16	54	677	June 3	84	1.12
July 22	77	1,820	Feb. 17	55	246	July 11	89	.77
July 27	78	3,770	Feb. 27	66	19.0	Sept. 18	71	.92
Aug. 7	93	5.56	Apr. 9	62	1.38	Oct. 22	66	.02
Sept. 1	75	21.0	May 3	75	89.4	Nov. 29	47	4.92
Oct. 2	74	11.3	May 4	83	52.6	Jan. 5, 1962	47	17.4
Nov. 6	59	.62	Dec. 10	47	0.63	Feb. 6	43	18.6
Dec. 1	58	2.43	Jan. 7, 1957	50	2.17	Mar. 17	66	13.5
Jan. 8, 1951	37	1.76	Mar. 16	58	357	Apr. 22	76	8.14
Feb. 5	35	2.62	Sept. 28	68	6.50	May 25	82	1.04
Mar. 2	60	28.2	Nov. 4	58	-	June 30	72	1,540
Mar. 17	62	10.1	Apr. 15, 1958	68	128	July 7	85	10.1
Apr. 2	47	130	Apr. 16	74	34.8	Aug. 5	84	7.86
Apr. 30	60	13.2	Apr. 29	64	17,600	Sept. 12	87	23.4
May 25	73	5.13	Apr. 30	68	1,080	Oct. 16	72	11.8
June 4	69	302	May 20	83	10.3	Nov. 29	58	159
June 18	70	83.7	June 24	87	35.0	Jan. 16, 1963	38	12.5
Aug. 24	80	8.64	Aug. 4	97	.24	Feb. 19	53	8.01
Oct. 29	61	17.5	Sept. 9	77	.28	May 2	72	30.8
Nov. 29	60	2.12	Oct. 6	78	.14	June 11	105	.30
Mar. 19, 1952	75	46.1	Nov. 12	58	.03	Jan. 21, 1964	64	.70
Apr. 17	70	30.6	Dec. 16	34	.52	Feb. 25	49	.02
Apr. 21	65	642	Jan. 20, 1959	54	2.64	Apr. 1	70	.26
May 4	90	12.6	Mar. 31	72	3.17	May 8	73	17.6
Nov. 12	56	2.52	May 5	88	.23	June 4	84	7.50
Nov. 18	57	152	June 9	80	89.0	Oct. 13	70	.42
Nov. 18	64	126	July 23	88	21.8	Nov. 30	51	10.5
Nov. 18	61	65.1	Aug. 26	80	.92	Jan. 4, 1965	56	23.0
Nov. 19	64	10.6	Sept. 29	88	1.19	Feb. 1	47	17.0
Apr. 6, 1953	58	1,190	Oct. 29	64	3.29	Feb. 12	42	242
Apr. 14	61	36.2	Dec. 8	57	3.87	Mar. 15	69	17.9
May 5	74	31.5	Jan. 12, 1960	52	825	Apr. 20	82	4.12
Nov. 2	76	.40	Feb. 16	46	53.0	May 24	80	18.1
Jan. 14, 1954	35	288	Mar. 22	68	25.2	July 6	77	.04
Feb. 18	57	35.4	Apr. 13	62	12.8	Jan. 3, 1966	55	.57
Mar. 29	72	5,40	Apr. 27	70	11.5	Feb. 7	61	2.13
May 3	66	61.8	May 20	76	64.9	Mar. 14	65	22.2
May 13	59	686	July 6	84	60.7	Apr. 18	74	16.0
June 7	81	11.6	Aug. 14	90	2.41	May 18	77	16.9
Nov. 29	55	1.74	Sept. 10	84	.66	June 13	84	1.42
Jan. 4, 1955	60	4.10	Oct. 13	84	10.3	Aug. 22	98	.44
Feb. 11	43	11.2						

RED RIVER BASIN

7-3432. Sulphur River near Talco, Tex.

Location.--lat 33°23'20", long 95°07'50", at bridge on U. S. Highway 271, about 150 ft downstream from abandoned Paris and Mt. Pleasant Railroad Bridge, 2.4 miles northwest of Talco, Titus County, and 3.0 miles downstream from Mustang Creek.

Drainage area.--1,365 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 12, 1956	50	54.2	Oct. 13, 1960	72	93.7	Oct. 8, 1963	77	0.08
Jan. 8, 1957	53	59.2	Nov. 21	55	30.9	Nov. 13	60	.09
Feb. 3	47	3,040	Dec. 16	49	2,560	Dec. 19	40	.77
Feb. 5	52	394	Feb. 2, 1961	44	78.5	Jan. 22, 1964	49	.62
Mar. 19	58	11,000	Mar. 14	61	49.1	Feb. 26	48	1.31
Aug. 28	88	.15	Apr. 26	72	39.1	Apr. 2	70	12.2
Nov. 4	55	155	June 3	79	6.97	Apr. 24	71	8,360
Aug. 5, 1958	86	2.38	July 10	84	4.79	June 7	76	65.4
Sept. 9	77	25.0	Aug. 11	85	9.46	July 11	89	1.56
Oct. 7	68	10.8	Sept. 17	70	129	Aug. 5	91	.13
Nov. 13	62	1.04	Sept. 17	70	114	Sept. 11	82	.47
Dec. 16	35	10.5	Oct. 21	60	2.68	Oct. 14	63	6.15
Jan. 20, 1959	48	34.0	Dec. 1	51	51.1	Dec. 2	51	30.3
Apr. 1	65	58.4	Jan. 6, 1962	42	72.2	Jan. 6, 1965	56	62.5
May 6	76	7.74	Feb. 7	50	72.9	Feb. 3	42	38.4
June 10	74	460	Mar. 15	52	116	Apr. 22	78	13.4
Aug. 6	90	118	Apr. 21	74	44.1	Apr. 22	78	15.8
Aug. 26	80	2.25	May 27	85	10.0	May 26	79	62.8
Sept. 29	80	27.7	July 8	85	47.7	July 8	79	2.23
Oct. 29	58	8.54	July 8	85	47.1	Aug. 17	86	.89
Dec. 8	45	11.8	Aug. 7	83	95.6	Sept. 25	70	834
Jan. 13, 1960	56	1,140	Sept. 14	83	226	Oct. 27	63	.42
Feb. 17	48	147	Oct. 17	72	261	Nov. 30	53	1.04
Mar. 23	58	89.5	Dec. 6	61	531	Jan. 5, 1966	50	11.4
Apr. 13	76	28.0	Jan. 17, 1963	36	59.9	Mar. 16	63	33.1
Apr. 27	73	66.3	Feb. 20	49	19.0	Apr. 22	68	53.5
May 25	76	43.5	Mar. 27	68	41.3	May 20	70	276
July 7	76	7,910	June 12	88	5.35	June 16	82	4.28
Aug. 14	82	96.3	July 24	92	13.3	July 22	83	3.07
Sept. 10	79	1.96	Aug. 30	82	.38	Aug. 25	78	4.22

RED RIVER BASIN

7-3435. Whiteoak Creek near Talco, Tex.

Location.--Lat 33°19', long 95°05', at bridge on U. S. Highway 271, 2 miles upstream from Ripley Creek, 2.7 miles south of Talco, Titus County, and 2.8 miles downstream from Lick Creek.

Drainage area.--494 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 25, 1949	54	15.9	May 9, 1955	79	7.53	Aug. 11, 1961	87	3.96
Dec. 9	49	26.8	June 14	80	3.95	Oct. 21	69	2.72
Dec. 16	38	100	July 19	80	42.5	Dec. 1	50	70.6
Jan. 19, 1950	52	1,150	Aug. 22	85	3.25	Jan. 6, 1962	42	224
Mar. 6	58	47.1	Oct. 5	77	12.2	Feb. 7	47	60.3
Apr. 7	60	28.5	Nov. 9	58	.46	Mar. 15	54	440
Apr. 20	59	480	Dec. 19	41	1.31	Apr. 21	70	30.4
May 1	59	8,220	Jan. 24, 1956	42	6.20	May 27	65	5.98
May 8	63	3,310	Feb. 17	53	553	July 9	64	13.9
June 2	63	563	Feb. 28	57	106	Aug. 6	85	115
July 3	80	7.24	Apr. 9	64	3.81	Sept. 14	84	1,100
July 17	72	469	May 28	83	2.34	Oct. 17	72	338
July 20	81	23.9	July 10	82	.49	Dec. 6	59	539
Aug. 7	81	20.2	Nov. 1	57	1.01	Jan. 17, 1963	35	50.8
Oct. 2	74	18.1	Dec. 12	50	.93	Feb. 20	52	75.9
Nov. 6	58	4.92	Jan. 8, 1957	54	11.7	Mar. 28	53	19.2
Dec. 1	51	5.72	Feb. 4	54	1,710	June 12	85	19.4
Jan. 8, 1951	43	13.3	Mar. 19	58	4,520	July 24	87	8.89
Feb. 5	35	21.0	Apr. 4	63	7,910	Aug. 30	83	.29
Feb. 16	39	1,870	Apr. 5	61	6,590	Oct. 8	80	.05
Mar. 2	60	111	Mar. 5, 1958	49	--	Dec. 19	39	3.19
Apr. 2	60	37.1	May 22	76	27.7	Jan. 22, 1964	54	1.68
Apr. 30	62	25.3	June 25	79	971	Feb. 26	49	3.78
May 25	75	9.22	Aug. 5	87	3.26	Apr. 3	68	8.65
July 3	72	593	Sept. 9	87	1.00	Apr. 24	70	1,970
July 30	80	18.9	Oct. 13	64	25.4	May 9	74	18.6
Aug. 23	82	.71	Nov. 13	64	3.79	June 7	74	39.2
Oct. 1	70	20.7	Dec. 16	37	12.5	July 11	92	.52
Oct. 29	60	120	Jan. 20, 1959	49	16.7	Sept. 11	67	1.47
Nov. 29	62	215	Apr. 2	62	97.3	Oct. 14	67	4.28
Jan. 2, 1952	52	8.82	May 6	82	19.1	Dec. 2	47	12.8
Mar. 19	82	240	June 10	75	35.1	Jan. 6, 1965	55	13.5
Apr. 16	59	3,050	July 24	80	205	Feb. 3	44	17.6
May 3	69	48.9	Aug. 26	82	1.16	Feb. 11	55	11,600
July 18	82	9.28	Sept. 30	78	11.8	Apr. 22	76	23.6
Sept. 8	80	.80	Dec. 8	47	15.1	May 26	76	58.2
Oct. 22	60	.79	Feb. 17, 1960	43	50.5	July 8	88	.78
Nov. 12	49	1.58	Mar. 23	58	87.8	Aug. 17	87	.24
Nov. 19	61	346	Apr. 14	69	29.6	Sept. 25	68	458
Dec. 1	41	1,080	Apr. 26	75	14.2	Oct. 27	64	1.22
Oct. 1, 1953	73	1.69	May 24	79	7.87	Nov. 30	57	.49
Nov. 3	56	8.35	Aug. 13	79	3.01	Jan. 5, 1966	49	272
Dec. 11	45	46.8	Sept. 10	80	1.28	Mar. 16	64	22.9
Feb. 18, 1954	55	92.1	Nov. 21	53	38.3	Apr. 22	66	33.7
Mar. 29	67	52.4	Dec. 16	47	1,630	Apr. 27	68	22,700
June 8	75	17.8	Feb. 2, 1961	45	59.2	May 19	67	461
Nov. 29	50	7.77	Mar. 14	63	33.8	June 16	79	8.33
Jan. 4, 1955	55	37.4	Apr. 26	70	24.2	July 21	86	15.0
Feb. 11	43	136	June 3	81	10.6	Aug. 24	78	6.35
Mar. 8	56	20.1	July 10	81	17.4			

RED RIVER BASIN

743445. Cypress Creek near Pittsburg, Tex.

Location.--Lat 33°01', long 94°53', at bridge on State Highway 11, 500 feet upstream from Louisiana and Arkansas Railway bridge, half a mile upstream from Williamson Creek, and 4.5 miles east of Pittsburg, Camp County.

Drainage area.--366 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 5, 1950	74	262	Nov. 30, 1954	47	10.8	May 7, 1959	72	59.6
Sept. 29	78	92.7	Jan. 5, 1955	58	44.4	June 10	78	87.9
Oct. 3	74	72.7	Mar. 8	56	50.9	July 25	89	50.3
Nov. 7	59	41.9	May 10	74	20.7	Aug. 27	78	7.28
Dec. 4	45	46.0	June 15	76	6.46	Sept. 30	76	11.9
Jan. 9, 1951	37	49.6	July 19	84	2.47	Oct. 30	57	10.1
Feb. 6	38	302	Aug. 23	80	3.46	Dec. 8	47	40.2
Mar. 5	60	223	Oct. 5	75	28.2	Feb. 18, 1960	40	240
Apr. 3	58	119	Nov. 9	47	3.47	Mar. 23	58	143
May 1	60	194	Dec. 20	42	19.0	May 24	73	47.8
May 28	72	77.3	Jan. 24, 1956	42	53.0	July 9	81	286
July 3	75	549	Feb. 18	51	738	Aug. 13	79	5.19
July 31	81	10.5	Feb. 28	57	76.0	Sept. 14	68	2.90
Aug. 24	82	2.15	Apr. 10	52	22.2	Oct. 17	68	34.0
Oct. 2	71	25.5	May 29	77	4.80	Dec. 15	44	994
Oct. 30	65	29.8	July 11	79	.65	Dec. 15	47	268
Nov. 30	58	36.3	Dec. 12	50	3.00	Mar. 15, 1961	62	632
Jan. 4, 1952	48	320	Jan. 8, 1957	50	11.9	Apr. 26	69	76.4
Feb. 14	56	205	Feb. 5	54	130	June 2	77	25.0
July 19	79	55.9	Mar. 20	57	804	July 9	74	591
Aug. 22	83	1.65	Apr. 17, 1958	67	852	Aug. 11	80	11.2
Sept. 4	78	.68	Apr. 28	63	18,100	Sept. 16	73	112
Oct. 21	54	2.12	Apr. 28	62	14,400	Oct. 20	60	10.2
Nov. 11	52	8.23	Apr. 28	63	10,000	Dec. 1	48	91.5
Nov. 20	55	55.9	Apr. 29	63	4,450	Feb. 7, 1962	51	166
Mar. 24, 1953	62	162	May 22	73	87.4	Mar. 17	58	401
Oct. 2	71	9.05	Aug. 5	82	17.8	Apr. 20	63	143
Nov. 5	55	21.0	Sept. 10	79	54.4	May 28	81	21.7
Dec. 10	45	94.4	Oct. 13	66	38.7	July 9	82	21.2
Feb. 17, 1954	56	93.8	Nov. 14	67	43.4	Aug. 6	83	10.3
Mar. 30	63	66.6	Dec. 17	39	76.1	Sept. 13	80	53.8
June 8	75	49.8	Jan. 21, 1959	37	53.0	Oct. 18	71	40.8
July 13	81	2.09	Apr. 2	59	191	Dec. 5	57	93.4

RED RIVER BASIN

7-3450. Boggy Creek near Daingerfield, Tex.

Location.--Lat 33°02'05", long 94°47'10", at bridge on State Highway 11, a quarter of a mile upstream from Louisiana & Arkansas Railway Co. bridge, 3.8 miles west of Daingerfield, Morris County, and 9 miles upstream from mouth.

Drainage area.--72 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 10, 1950	64	21.5	June 15, 1955	73	0.52	June 2, 1961	77	4.49
May 7	59	4,340	July 19	85	.51	July 9	76	18.3
May 9	62	330	Dec. 20	45	.12	Aug. 10	83	.71
June 5	61	54.0	Jan. 25, 1956	42	6.15	Sept. 16	69	1.66
July 4	77	2.22	Feb. 28	56	21.4	Oct. 20	58	1.15
Aug. 8	82	2.53	Apr. 10	57	5.35	Nov. 30	48	23.4
Sept. 5	73	52.8	Feb. 5, 1957	54	10.2	Feb. 8, 1962	47	52.9
Oct. 3	71	31.0	Mar. 20	58	83.2	Mar. 17	60	96.7
Nov. 7	60	13.8	Sept. 27	71	11.7	Apr. 20	64	78.8
Dec. 4	48	13.0	Apr. 18, 1958	68	100	May 28	84	3.91
Jan. 9, 1951	40	14.2	Apr. 28	64	1,320	July 9	85	3.01
Jan. 19	49	49.9	Apr. 30	56	3,580	Aug. 5	84	6.65
Feb. 6	39	136	Apr. 30	55	3,640	Sept. 13	78	2.50
Mar. 5	57	66.0	May 1	56	5,000	Oct. 18	70	246
Apr. 3	56	35.7	May 22	73	19.9	Dec. 5	57	61.9
May 28	75	5.70	June 26	78	22.0	Jan. 17, 1963	38	33.2
July 3	77	122	Aug. 5	81	4.15	Feb. 22	45	21.2
Oct. 2	70	.34	Sept. 10	79	2.73	Mar. 28	64	29.5
Oct. 30	63	2.84	Oct. 13	69	6.36	May 4	70	41.5
Nov. 30	58	679	Nov. 14	65	6.48	June 13	82	.46
Jan. 3, 1952	47	15.4	Dec. 17	38	12.2	Dec. 18	42	.98
Feb. 15	56	46.8	Jan. 21, 1959	39	12.3	Jan. 22, 1964	53	2.32
Mar. 19	60	87.0	Apr. 2	60	64.2	Feb. 27	47	7.45
July 18	82	.97	May 7	74	14.7	Apr. 3	69	13.7
Nov. 26	47	104	July 25	76	3.84	May 10	74	13.1
Dec. 4	41	155	Oct. 30	60	.03	June 7	79	1.62
Mar. 24, 1953	63	61.0	Dec. 9	45	6.48	Oct. 15	59	.43
May 7	65	26.2	Feb. 18, 1960	42	76.4	Feb. 4, 1965	40	13.8
Dec. 10	43	12.2	Mar. 24	56	55.6	Apr. 23	73	7.18
Jan. 13, 1954	38	55.3	Apr. 26	71	11.0	May 27	78	22.9
Feb. 17	56	26.8	May 24	73	12.5	July 9	78	.16
Mar. 30	60	12.3	July 9	76	74.7	Sept. 27	64	.82
May 4	59	69.4	Aug. 13	84	.002	Jan. 6, 1966	48	4.24
June 8	74	28.8	Nov. 22	55	32.6	Mar. 17	61	23.5
Jan. 5, 1955	58	7.50	Dec. 14	46	200	Apr. 22	65	103
Feb. 10	48	28.1	Mar. 15, 1961	62	229	May 20	73	91.2
Mar. 8	56	13.8	Apr. 27	68	18.9	June 15	75	1.15
May 10	74	3.48						

RED RIVER BASIN

7-3460.5. Little Cypress Creek near Ore City, Tex.

Location.--Lat 32°40'21", long 94°45'03", at bridge on U. S. Highway 259, 4 miles downstream from Clear Creek, 7.5 miles downstream from Gum Creek, 9 miles south of Ore City, Upshur County, and 12 miles north of Longview.

Drainage area.--383 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 18, 1963	40	99.8	June 8, 1964	80	6.35	Sept. 29, 1965	68	1.16
May 1	69	2,140	June 10	81	4.45	Dec. 2	50	1.64
June 13	83	8.35	Sept. 12	83	.07	Jan. 9, 1966	44	20.7
July 26	83	.34	Oct. 22	61	1.99	Feb. 15	47	56.7
Dec. 19	40	13.4	Dec. 5	46	56.6	Mar. 20	63	39.1
Jan. 2, 1964	40	16.3	Jan. 12, 1965	44	226	Apr. 26	67	15,900
Jan. 28	49	20.9	Feb. 14	51	642	May 24	71	294
Feb. 27	49	37.9	Apr. 26	68	38.8	July 9	77	2.77
Apr. 3	68	56.2	July 12	85	5.49	Sept. 9	77	10.6
May 11	76	46.2						

RED RIVER BASIN

7-3460.7. Little Cypress Creek near Jefferson, Tex.

Location.--Lat $32^{\circ}42'46''$, long $94^{\circ}20'44''$, at bridge on U. S. Highway 59, 0.3 mile downstream from Texas and Pacific Railway Co. bridge, 3.3 miles downstream from Grays Creek, and 3.5 miles south of Jefferson, Marion County.

Drainage area.--675 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 16, 1963	40	47.6	Oct. 22, 1964	59	5.40	Feb. 13, 1966	51	214
Jan. 3, 1964	40	33.6	Feb. 13, 1965	61	1,600	Mar. 18	64	118
Jan. 28	50	47.4	Apr. 24	73	110	Apr. 26	67	31,500
Feb. 27	48	77.0	May 30	75	1,250	Apr. 27	71	24,200
Apr. 4	69	117	July 10	74	37.3	July 7	85	11.4
July 13	83	.04	Dec. 2	51	2.02	Aug. 3	87	.20
Sept. 13	77	.52	Jan. 7, 1966	47	70.3	Sept. 8	80	20.5

RED RIVER BASIN

7-3461.4. Frazier Creek near Linden, Tex.

Location.--Lat $33^{\circ}03'15''$, long $94^{\circ}17'25''$, at bridge on U. S. Highway 59, $1\frac{1}{2}$ miles upstream from Colley Creek, $4\frac{1}{2}$ miles upstream from Johns Creek, and $5\frac{1}{2}$ miles northeast of Linden, Cass County.

Drainage area.--48.0 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 13, 1958	74	1.47	Nov. 18, 1964	67	6.12	Dec. 1, 1965	45	0.81
Sept. 15, 1959	70	1.54	Jan. 7, 1965	57	18.4	Jan. 7, 1966	43	9.19
Oct. 2	74	.78	Feb. 5	40	19.0	Mar. 17	62	14.3
Sept. 6, 1960	84	.03	Apr. 24	64	17.3	Apr. 20	68	10.8
Oct. 11	68	3.38	May 28	70	62.0	May 21	65	31.4
Dec. 16, 1963	37	3.10	July 9	68	6.88	June 14	74	11.6

SABINE RIVER BASIN

8-0172. Cowleech Fork Sabine River at Greenville, Tex.

Location.--Lat 33°08'00", long 96°04'35", at bridge on U. S. Highway 67 (interstate Highway 30), 0.3 mile downstream from Horse Creek, 0.9 mile downstream from Louisiana and Arkansas Railroad Co. bridge, and 1.8 miles east of Greenville, Hunt County.

Drainage area.--77.7 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 14, 1959	58	810	Apr. 24, 1961	70	1.29	Jan. 21, 1964	46	0.62
Feb. 14	58	750	June 4	80	1.78	Feb. 24	46	.66
Mar. 31	70	.27	July 12	79	1.17	Mar. 31	65	.44
May 5	70	.12	Aug. 12	86	.79	Apr. 23	69	535
June 8	76	.46	Sept. 19	72	1.39	May 7	72	11.1
June 24	76	14.3	Oct. 24	60	.55	May 31	43	99.0
July 21	76	23.5	Nov. 28	52	1.40	June 3	69	2.23
July 27	78	151	Jan. 12, 1962	33	1.19	July 7	86	.31
July 27	78	96.3	Feb. 5	54	1.64	Aug. 4	86	.003
Aug. 7	80	.28	Mar. 18	54	2.02	Oct. 20	61	.37
Aug. 25	90	.14	Apr. 23	63	6.45	Dec. 5	43	1.18
Sept. 29	74	.88	May 24	81	1.26	Jan. 6, 1965	56	.98
Oct. 28	58	.47	July 6	80	.87	Feb. 3	38	2.86
Dec. 7	55	1.93	Aug. 4	79	11.5	Mar. 8	48	60.2
Feb. 16, 1960	42	3.19	Sept. 11	84	15.7	Apr. 14	69	2.18
Mar. 22	50	3.57	Oct. 16,	75	.79	May 27	75	1.49
Apr. 14	71	1.27	Nov. 30	60	10.4	July 1	80	.75
Apr. 27	67	3.26	Jan. 15, 1963	35	.82	Aug. 4	78	.29
May 27	67	15.5	Feb. 18	45	4.11	Oct. 21	63	.62
July 6	79	558	Mar. 25	68	1.17	Dec. 1	50	4.13
Aug. 16	82	.62	May 1	64	3.60	Jan. 12, 1966	53	.63
Sept. 11	74	.95	June 11	79	1.56	Feb. 18	45	4.86
Oct. 14	68	10.4	July 23	84	1.56	Mar. 31	59	4.52
Nov. 19	54	1.55	Sept. 12	78	.79	June 2	70	5.35
Dec. 17	42	4.70	Oct. 7	71	.85	July 6	77	2.72
Jan. 31, 1961	40	2.04	Nov. 12	59	.38	Aug. 18	80	.61
Mar. 13	65	2.12	Dec. 21	37	.93	Sept. 28	69	.82

SABINE RIVER BASIN

8-0173. South Fork Sabine River near Quinlan, Tex.

Location.--Lat 32°53'52", long 96°15'11", at bridge on Farm Road 1565, 2.4 miles upstream from Dry Creek, 6.2 miles upstream from Bearpen Creek, and 7 miles southwest of Quinlan, Hunt County.

Drainage area.--78.7 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 14, 1959	58	1,700	Mar. 13, 1961	64	0.08	Nov. 30, 1962	59	14.6
Feb. 14	58	1,360	Nov. 22	52	731	Jan. 15, 1963	34	.15
Feb. 15	52	841	Nov. 22	52	1,580	May 1	64	11.0
Feb. 15	49	69.5	Nov. 23	52	567	Jan. 20, 1964	48	.63
June 8	78	.50	Nov. 23	52	361	Apr. 25	73	3.61
July 21	80	470	Mar. 18, 1962	61	.25	May 7	72	.29
July 21	78	257	Apr. 23	64	535	May 30	43	532
Aug. 7	88	.02	Apr. 23	64	1,170	May 31	43	888
Oct. 5	70	1,420	Apr. 24	64	911	May 31	43	144
Feb. 15, 1960	48	.86	Apr. 25	65	378	May 31	44	68.9
May 27	72	3.18	Apr. 25	64	234	June 1	42	17.1
July 5	85	160	Apr. 25	64	567	June 2	73	2.72
July 15	78	41.6	Apr. 26	64	45.8	Dec. 5	43	.16
Oct. 14	68	4.44	July 5	78	.45	Mar. 24, 1965	48	.14
Dec. 17	40	1.95	Aug. 4	81	.36	May 11	68	3,700
Jan. 30, 1961	35	1.49	Sept. 11	87	3.09	Sept. 19, 1966	71	8.47

SABINE RIVER BASIN

8-0175. Sabine River near Emory, Tex.

Location.--Lat 32°46'23", long 95°47'56" at bridge on State Highway 19, 3.5 miles upstream from Sandy Creek, 7 miles south of Emory, Rains County, 9.4 miles downstream from McBee Creek, and 13 miles downstream from Lake Tawakoni.

Drainage area.--888 sq mi.

Remarks.--Flow largely regulated by Lake Tawakoni since October 1960. Once-daily readings from November 1952 to September 1954 are on file in the district office at Austin.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 24, 1952	52	25.7	Apr. 5, 1959	60	76.2	Apr. 1, 1963	73	5.78
Dec. 1	41	174	May 12	70	983	May 8	74	7.68
Nov. 6, 1953	56	207	June 15	79	100	June 16	80	10.6
Feb. 15, 1954	63	7.05	June 23	80	2.89	July 29	82	11.8
Apr. 2	56	4.43	Sept. 1	81	2.59	Sept. 11	86	2.58
May 7	69	41.3	Nov. 4	68	70.9	Oct. 16	74	2.16
June 11	73	10.9	Feb. 22, 1960	49	434	Nov. 15	56	.53
Dec. 2	51	1.36	Mar. 27	64	26.9	Dec. 20	40	.71
Jan. 8, 1955	51	2.48	May 27	82	6.34	Jan. 27, 1964	55	.28
Mar. 11	72	4.34	Aug. 10	80	1.85	Mar. 1	54	3.68
May 14	87	1.27	Sept. 11	81	2.77	Apr. 7	69	19.6
June 16	84	4.70	Nov. 30	44	2.35	Apr. 22	72	3,900
Aug. 25	86	10.1	Dec. 28	45	2.65	May 14	79	.85
Oct. 3	73	1.68	May 29, 1961	81	3.72	May 17	87	.02
Jan. 27, 1956	48	5.81	July 5	86	1.64	Aug. 9	85	5.31
Mar. 1	62	5.18	Sept. 13	75	3.26	Sept. 16	75	.29
Apr. 12	59	.20	Dec. 5	57	.48	Oct. 16	71	.13
May 31	80	6.69	Jan. 11, 1962	32	1.28	Dec. 8	43	1.36
Dec. 14	52	6.20	Feb. 11	59	.85	Jan. 14, 1965	47	1.33
Jan. 11, 1957	50	11.4	Mar. 12	58	53.2	Apr. 29	63	97.1
Aug. 26	79	.03	Apr. 16	61	1.76	May 13	72	5,310
Sept. 23	69	1,460	May 30	84	.52	July 13	95	.03
Apr. 23, 1958	68	399	July 12	90	.11	Nov. 1	60	.46
Aug. 7	80	2.70	Sept. 21	79	1.64	Dec. 6	49	.86
Sept. 8	81	.05	Oct. 25	60	.59	Mar. 26, 1966	59	10.5
Oct. 12	67	3.18	Dec. 3	58	12.6	May 27	83	676
Nov. 17	63	1.78	Jan. 21, 1963	36	5.39	Sept. 6	83	1.72
Jan. 25, 1959	44	1.11	Feb. 24	48	9.24			

SABINE RIVER BASIN

8-0185. Sabine River near Mineola, Tex.

Location.--Lat 32°36'45", long 95°29'10", near center of main channel on downstream side of pier of bridge on U. S. Highway 69, 3.2 miles south of Mineola, Wood County, and 4.5 miles upstream from Missouri Pacific Railroad bridge.

Drainage area.--1,358 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
June 7, 1949	83	100	Dec. 4, 1961	59	26.3	Apr. 11, 1956	61	16.6
Sept. 6	79	3.51	May 1, 1952	68	2,300	May 30	82	9.62
Nov. 10	57	35.7	July 17	79	11.6	Oct. 29	67	.49
Dec. 1	55	26.8	Nov. 5	58	1.37	Jan. 11, 1957	46	25.4
Mar. 15, 1950	60	1,070	Dec. 2	40	2,230	Mar. 22	58	5,410
May 10	63	3,430	Nov. 6, 1953	54	16.9	Apr. 30	68	40,500
June 7	65	1,860	Feb. 15, 1954	52	50.2	Aug. 26	84	1.16
July 6	72	35.4	Apr. 1	60	33.7	Apr. 22, 1958	67	477
Sept. 6	72	77.2	July 15	88	.28	June 29	76	91.7
Oct. 4	70	19.4	Dec. 1	55	26.8	Aug. 7	79	7.03
Nov. 9	60	13.9	Jan. 8, 1955	50	25.6	Sept. 8	77	5.01
Dec. 5	44	18.4	Mar. 11	65	55.8	Oct. 12	65	251
Jan. 10, 1951	44	22.0	May 11	77	15.8	Nov. 16	67	105
Feb. 8	40	775	June 16	80	26.4	Jan. 24, 1959	41	37.8
Mar. 6	60	118	July 21	79	17.0	Apr. 5	60	415
May 2	63	232	Aug. 25	82	8.91	May 12	70	597
May 29	73	74.1	Oct. 3	72	3.41	June 15	76	123
July 6	79	744	Nov. 7	54	2.34	July 27	78	1,160
Aug. 1	80	11.7	Dec. 21	47	9.82	Sept. 1	78	22.6
Aug. 27	82	2.01	Jan. 26, 1956	45	31.0	Oct. 4	80	376
Oct. 4	74	2.49	Feb. 18	52	245	Nov. 4	67	531
Nov. 1	61	77.7	Mar. 1	57	46.0			

SABINE RIVER BASIN

8-0190. Lake Fork Creek near Quitman, Tex.

Location.--Lat 32°46', long 95°28', at bridge on State Highway 37, half a mile downstream from Dry Creek and 2.5 miles south of Quitman, Wood County.

Drainage area.--585 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 6, 1948	48	2.11	Feb. 15, 1954	57	59.2	Apr. 29, 1961	69	30.0
Jan. 10, 1949	51	7.41	Apr. 1	50	38.6	July 6	80	37.2
Jan. 28	40	7,120	June 10	80	17.2	Aug. 8	80	4.74
Feb. 7	43	212	Dec. 1	55	7.36	Sept. 14	76	237
Apr. 4	57	87.9	Jan. 8, 1955	50	24.0	Oct. 17	58	2.24
June 8	76	6.85	Mar. 10	65	28.4	Dec. 5	57	43.2
July 5	83	2.88	May 11	75	9.69	Feb. 11, 1962	53	69.7
Aug. 2	76	11.6	June 16	77	2.62	Apr. 17	61	52.1
Sept. 6	78	6.60	July 20	82	.08	May 22	78	16.8
Nov. 10	57	35.1	Aug. 25	80	.46	July 11	85	8.04
Dec. 1	55	28.4	Oct. 3	78	1.94	Aug. 3	82	47.3
Jan. 21, 1950	56	272	Dec. 21	46	.80	Sept. 20	76	23.0
Apr. 12	62	39.5	Jan. 10, 1957	55	2.22	Oct. 25	59	5.18
May 10	62	526	Apr. 22, 1958	64	322	Jan. 20, 1963	34	69.0
June 7	64	133	May 26	80	24.7	Feb. 24	50	32.6
July 6	72	48.3	Aug. 8	81	.55	Mar. 31	74	29.7
Aug. 11	80	19.2	Sept. 8	80	.08	June 15	86	7.21
Sept. 6	70	38.6	Oct. 12	68	279	June 15	81	4.25
Oct. 4	73	15.9	Nov. 17	67	1.08	July 29	81	40.1
Nov. 9	64	9.19	Jan. 24, 1959	42	26.0	Sept. 11	78	40.1
Dec. 5	50	13.7	Apr. 5	59	289	Jan. 27, 1964	52	3.37
Jan. 10, 1951	38	20.2	May 11	68	272	Mar. 1	48	5.84
Feb. 8	40	682	June 15	73	113	Apr. 7	69	35.2
Mar. 6	59	102	July 27	77	615	Apr. 23	71	998
Apr. 5	61	56.1	Aug. 31	82	18.4	May 14	74	16.4
May 2	62	207	Nov. 3	68	255	June 17	76	11.9
July 6	80	338	Dec. 12	47	70.6	Oct. 15	63	.31
Nov. 1	59	15.5	Feb. 21, 1960	50	371	Dec. 8	38	.72
Dec. 4	60	7.58	Mar. 27	58	120	Jan. 14, 1965	47	5.01
Jan. 4, 1952	46	368	Apr. 23	71	28.0	Apr. 28	62	62.5
Feb. 12	58	19.4	May 26	75	17.4	May 12	70	3,890
July 19	78	18.3	July 12	86	21.7	July 13	84	.59
Nov. 24	51	23.1	Aug. 10	80	1.39	Sept. 30	69	13.8
Nov. 25	55	88.5	Sept. 12	70	.39	Mar. 21, 1966	67	24.1
Nov. 27	47	367	Oct. 15	70	5.33	May 26	73	679
Mar. 20, 1953	64	236	Nov. 30	49	37.9	July 6	80	38.9
Nov. 6	52	13.7	Dec. 28	45	65.6	Aug. 1	83	11.4
						Sept. 7	79	366

SABINE RIVER BASIN

8-0195. Big Sandy Creek near Big Sandy, Tex.

Location.--Lat 32°36'12", long 95°05'32", at bridge on State Highway 155, 0.8 mile upstream from St. Louis Southwestern Railway Lines bridge, and 1.3 miles northeast of Big Sandy, Upshur County.

Drainage area.--231 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 5, 1948	50	40.3	Sept. 24, 1954	70	9.32	July 6, 1961	83	245
Jan. 11, 1949	52	49.4	Dec. 1	54	32.8	Aug. 8	80	32.9
Jan. 28	44	461	Jan. 8, 1955	50	60.8	Sept. 14	73	131
Apr. 5	56	156	Mar. 10	57	72.2	Oct. 17	59	33.0
June 7	78	40.5	May 12	70	48.2	Dec. 4	56	131
Aug. 5	76	54.5	June 16	74	22.7	Jan. 11, 1962	32	194
Sept. 6	78	35.1	July 20	83	37.9	Feb. 10	55	142
Nov. 10	55	105	Aug. 24	82	18.1	Mar. 13	56	458
Dec. 1	55	91.6	Oct. 4	74	22.0	Apr. 17	61	114
Jan. 7, 1950	37	291	Nov. 8	53	18.0	May 30	73	50.1
Feb. 15	53	2,180	Dec. 21	48	29.2	July 11	79	36.0
Feb. 16	52	1,310	Jan. 26, 1956	46	68.2	Aug. 3	78	40.8
Apr. 12	56	93.4	Feb. 29	56	81.0	Sept. 20	76	29.0
May 10	60	1,000	Apr. 11	57	44.9	Oct. 25	58	39.0
June 7	64	240	May 30	78	15.5	Dec. 4	58	160
July 6	68	92.8	July 14	85	7.76	Jan. 19, 1963	44	83.5
Aug. 10	80	96.7	Aug. 14	89	5.31	Feb. 23	46	75.8
Sept. 6	70	143	Aug. 23	73	8.52	Mar. 31	72	65.3
Oct. 4	68	53.1	Oct. 1	72	6.91	June 13	83	22.2
Nov. 9	57	67.0	Oct. 30	62	10.3	July 28	80	22.9
Dec. 5	49	66.2	Dec. 14	44	20.0	Sept. 6	82	26.4
Jan. 10, 1951	43	73.0	Jan. 10, 1957	53	28.2	Oct. 11	68	14.4
Feb. 8	40	250	Mar. 21	59	164	Nov. 18	62	34.3
Mar. 6	58	187	Apr. 29	69	3,350	Dec. 18	44	38.7
Apr. 5	60	134	Aug. 26	79	20.0	Jan. 24, 1964	56	58.2
May 2	64	159	Sept. 24	70	118	Feb. 29	50	52.2
May 29	70	61.8	Aug. 7, 1958	79	13.1	Apr. 6	69	76.3
July 6	72	59.7	Sept. 11	76	45.9	May 13	74	43.0
Aug. 1	79	21.1	Oct. 11	67	66.4	June 16	77	22.8
Aug. 27	78	16.9	Nov. 16	68	93.0	July 15	79	8.66
Oct. 2	70	26.8	Jan. 24, 1959	42	74.8	Aug. 8	83	8.34
Oct. 31	60	47.9	Apr. 5	61	126	Sept. 15	71	8.93
Jan. 4, 1952	44	109	May 10	72	98.7	Oct. 24	56	16.9
Mar. 18	56	208	June 13	74	104	Dec. 7	43	25.9
Apr. 23	66	573	July 27	77	164	Feb. 15, 1965	46	675
Apr. 30	67	292	Aug. 31	78	64.0	Apr. 27	69	50.0
July 16	78	20.6	Oct. 3	76	34.4	July 12	83	13.5
Aug. 19	81	14.7	Nov. 3	65	40.8	Aug. 23	80	12.3
Sept. 10	75	12.0	Dec. 11	50	100	Sept. 30	70	14.5
Oct. 1	69	14.6	Feb. 21, 1960	51	229	Oct. 31	57	14.1
Nov. 6	55	19.2	Mar. 27	56	200	Dec. 5	49	26.0
Nov. 26	52	292	May 26	70	80.4	Jan. 10, 1966	50	32.4
Mar. 25, 1953	59	159	July 12	80	62.8	Feb. 16	48	156
Nov. 9	49	57.0	Aug. 11	79	17.6	Mar. 26	54	35.3
Feb. 16, 1954	57	103	Sept. 12	74	35.0	May 25	76	458
Apr. 1	60	85.0	Oct. 15	69	36.9	July 6	77	19.3
June 10	77	50.0	Nov. 30	52	92.1	Aug. 2	81	11.4
July 15	79	22.8	Apr. 29, 1961	69	101	Sept. 13	73	60.8
Aug. 19	84	9.87	May 30	72	61.2			

SABINE RIVER BASIN

S-C200. Sabine River near Gladewater, Tex.

Location.--Lat 32°32', long 94°57', at bridge on U. S. Highway 271, half a mile downstream from Glade Creek, and 1 mile southwest of Gladewater, Gregg County.

Drainage area.--2,791 sq mi.

Remarks.--Flow partly regulated by Lake Tawakoni since October 1960.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 3, 1949	73	5,250	Aug. 24, 1955	89	71.2	July 7, 1961	80	3,100
June 7	80	2,420	Oct. 4	83	84.2	Aug. 8	87	1.5
Aug. 4	80	1,770	Nov. 8	55	41.8	Sept. 14	74	886
Sept. 8	61	73.3	Dec. 21	46	113	Oct. 17	67	122
Oct. 12	72	1,610	Jan. 25, 1956	41	431	Dec. 4	59	696
Nov. 3	55	9,800	Feb. 29	57	407	Feb. 10, 1962	52	798
Nov. 30	59	363	Apr. 11	59	198	Mar. 13	54	2,670
Feb. 16, 1950	53	31,700	May 30	81	62.5	Apr. 18	65	559
Feb. 17	53	37,800	July 13	90	14.9	May 29	78	199
Feb. 18	56	33,000	Aug. 14	94	5.95	July 11	88	129
Apr. 13	57	429	Aug. 23	86	8.30	Aug. 2	84	1,000
May 12	61	12,400	Aug. 27	83	11.0	Aug. 24	87	46.2
June 8	66	5,050	Oct. 2	73	12.6	Sept. 20	80	396
July 6	72	550	Oct. 30	67	15.4	Oct. 24	66	164
Sept. 8	72	400	Mar. 21, 1957	59	1,340	Dec. 4	57	12,520
Oct. 4	70	222	May 1	69	58,100	Mar. 31, 1963	69	316
Dec. 7	32	237	Aug. 27	79	54.4	June 15	92	97.9
Jan. 11, 1951	44	268	Sept. 25	69	691	July 28	84	61.8
Mar. 6	60	2,010	Nov. 9	58	2,570	Sept. 10	86	60.7
Apr. 5	59	698	Mar. 8	57	780	Oct. 11	76	25.2
May 2	64	700	May 25	76	458	Nov. 18	62	50.2
May 31	75	264	Aug. 7	82	117	Dec. 18	45	148
July 5	79	253	Sept. 11	79	120	Jan. 23, 1964	50	276
Aug. 2	83	69.7	Oct. 11, 1958	69	379	Feb. 23	49	208
Aug. 27	83	34.6	Nov. 16	63	299	May 13	79	212
Oct. 4	72	68.8	Jan. 23, 1959	43	382	June 15	85	52.4
Nov. 1	63	177	Apr. 4	60	736	July 14	89	15.4
Dec. 4	58	318	May 10	71	740	Aug. 8	91	10.8
Jan. 7, 1952	49	726	June 13	74	790	Sept. 13	81	12.8
Apr. 23	68	6,980	July 26	77	1,260	Oct. 24	64	32.9
May 7	72	3,530	Aug. 30	84	236	Dec. 7	47	160
Aug. 19	82	22.2	Oct. 3	80	193	Jan. 13, 1965	49	410
Sept. 10	69	15.3	Nov. 3	68	386	Feb. 8	57	201
Oct. 1	78	19.6	Dec. 10	55	280	Apr. 27	71	210
Nov. 6	61	26.0	Feb. 21, 1960	49	1,460	July 12	91	57.7
Mar. 25, 1953	64	1,200	Apr. 24	73	374	Aug. 24	83	24.9
Nov. 9	53	170	May 26	75	336	Sept. 29	70	547
July 14, 1954	90	26.5	July 12	81	550	Oct. 31	60	36.5
Aug. 19	94	10.9	Aug. 11	80	71.2	Dec. 4	53	71.1
Sept. 24	77	10.5	Sept. 12	81	94.4	Jan. 10, 1966	50	365
Dec. 1	54	195	Oct. 16	74	161	Mar. 25	60	177
Jan. 7, 1955	53	368	Dec. 13	47	17,500	July 10	87	83.6
May 12	61	198	Apr. 27, 1961	70	527	Aug. 5	86	37.2
June 15	76	213	May 31	53	719	Sept. 13	74	746

SABINE RIVER BASIN

8-0207. Rabbit Creek at Kilgore, Tex.

Location.--Lat 32°23'17", long 94°54'11", at bridge on State Highway 31, at Kilgore, Gregg County, 0.4 mile upstream from Big Caney Creek, and 4 miles upstream from Peavine Creek.

Drainage area.--75.6 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 5, 1963	47	4.86	Mar. 31, 1965	54	582	Feb. 13, 1966	51	39.7
Jan. 29, 1964	49	10.4	Apr. 26	66	39.4	Mar. 20	55	27.8
Feb. 28	51	17.6	May 30	79	141	Apr. 24	56	8,680
Apr. 6	67	64.1	July 11	84	3.65	Apr. 24	56	5,180
May 13	72	10.5	Aug. 20	80	.13	Apr. 25	66	2,210
June 16	79	3.29	Sept. 29	71	2.07	May 24	72	98.4
July 15	79	.06	Oct. 29	57	1.04	July 9	84	4.44
Oct. 23	61	.55	Dec. 4	48	12.1	Aug. 2	84	.80
Dec. 6	41	6.16	Jan. 9, 1966	47	11.1	Sept. 9	75	2.96

SABINE RIVER BASIN

8-0220. Sabine River near Tatum, Tex.

Location.--Lat 32°22'11", long 94°27'28", at bridge on State Highway 43, 5.1 miles northeast of Tatum, Rusk County, 5.2 miles upstream from Fotters Creek, and 5.6 miles downstream from Cherokee Bayou.

Drainage area.--3,493 sq mi.

Water temperature records available.--Once daily readings from March 1952 to September 1966.

Remarks.--Some regulation by Lake Tawakoni since October 1960.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1952	Mean	-	-	-	-	-	58	64	74	80	86	86	79
	Max.-Min.	-	-	-	-	-	65 53	69 59	77 70	89 72	90 82	88 84	84 70
1953	Mean	63	55	49	50	52	62	66	73	81	84	87	81
	Max.-Min.	75 50	65 48	50 48	56 48	57 47	70 52	70 60	83 66	94 81	90 78	92 82	86 77
1954	Mean	75	68	51	48	55	60	73	71	85	92	91	85
	Max.-Min.	80 66	66 51	58 45	55 45	61 51	70 51	76 65	79 64	92 79	95 87	93 86	91 74
1955	Mean	74	66	52	47	50	59	68	78	81	87	85	82
	Max.-Min.	84 62	62 51	57 49	57 47	55 47	71 45	75 55	82 75	89 74	90 82	86 82	84 78
1956	Mean	73	59	51	49	53	62	67	79	86	90	88	83
	Max.-Min.	84 60	67 50	57 43	58 43	61 42	69 54	72 60	85 68	93 83	92 85	98 76	89 73
1957	Mean	77	62	55	50	55	61	65	77	80	87	87	79
	Max.-Min.	85 74	70 52	60 52	60 43	60 50	70 53	70 57	80 68	84 76	90 83	89 82	89 68
1958	Mean	69	59	53	49	50	55	63	76	83	85	87	82
	Max.-Min.	75 60	65 53	60 49	54 46	59 42	59 50	70 56	79 70	87 78	90 79	90 80	88 74
1959	Mean	70	61	47	48	52	56	62	73	79	83	82	79
	Max.-Min.	75 60	65 50	50 41	58 40	58 42	64 51	68 56	77 67	84 71	89 78	84 80	87 73
1960	Mean	69	54	51	50	50	52	64	67	85	86	90	84
	Max.-Min.	78 59	67 44	56 46	57 45	57 47	62 40	70 52	80 56	89 81	89 78	91 87	91 79
1961	Mean	74	-	49	47	51	61	65	76	85	81	84	79
	Max.-Min.	81 62	-	58 44	51 42	60 44	69 54	74 59	81 72	85 72	85 77	89 78	87 71
1962	Mean	69	58	49	44	53	55	64	75	81	85	84	79
	Max.-Min.	76 63	71 51	56 45	53 35	60 42	64 48	71 57	80 68	87 78	89 80	89 81	86 79
1963	Mean	71	-	50	-	-	-	-	-	82	-	-	83
	Max.-Min.	76 62	-	58 44	-	-	-	-	-	86 78	-	-	88 79
1964	Mean	-	-	-	-	-	57	70	89	90	86	89	-
	Max.-Min.	-	-	-	-	-	62 50	78 64	-	-	95 86	96 80	-
1965	Mean	-	62	52	46	52	53	72	74	82	89	86	82
	Max.-Min.	-	71 51	60 44	60 35	60 45	59 47	80 59	78 68	82 76	92 84	90 83	90 72
1966	Mean	69	64	53	47	48	58	68	72	81	88	84	77
	Max.-Min.	75 62	69 61	57 50	56 36	55 40	68 49	73 63	76 65	86 74	95 83	88 80	85 70
1952-66	Mean	71	59	51	49	52	58	74	82	87	86	86	81
	Max.-Min.	85 50	71 44	60 41	60 35	61 40	71 45	80 52	85 56	94 71	95 77	96 76	91 68

SABINE RIVER BASIN

8-0223. Murvaul Bayou near Gary, Tex.

Location.--Lat 32°01'54", long 94°22'31", at bridge on Farm Road 10, 0.3 mile downstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 1 mile downstream from Indian Creek, 1.5 miles north of Gary, Panola County, and 3 miles downstream from Murvaul Lake.

Drainage area.--134 sq mi.

Remarks.--Flow largely regulated by Murvaul Lake.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 20, 1958	65	2.07	Aug. 12, 1960	76	7.00	Nov. 19, 1963	66	4.53
May 23	75	2.22	Sept. 13	72	9.72	Nov. 21	66	5.05
Aug. 6	79	91.4	Oct. 16	66	11.6	Dec. 17	43	3.95
Sept. 12	77	47.7	Nov. 23	59	351	Jan. 29, 1964	48	3.97
Sept. 23	77	134	Dec. 19	48	243	Feb. 28	47	6.60
Oct. 9	68	64.7	June 1, 1961	73	19.7	Apr. 4	72	5.31
Oct. 10	68	54.1	July 8	63	158	May 12	75	5.00
Oct. 11	69	7.37	Aug. 9	78	17.5	June 9	78	5.84
Nov. 15	62	110	Sept. 15	73	31.1	July 13	79	5.37
Jan. 22, 1959	40	8.28	Oct. 18	69	21.9	Aug. 7	82	4.84
Jan. 23	42	12.3	Dec. 3	55	24.0	Sept. 14	69	5.14
May 9	73	66.8	Feb. 9, 1962	52	86.8	Oct. 23	59	5.23
June 12	74	95.4	Mar. 14	50	197	Dec. 4	54	6.04
July 26	78	54.7	Apr. 19	65	74.1	Jan. 8, 1965	63	4.91
Aug. 29	76	10.3	May 29	69	63.2	Feb. 14	48	8.24
Oct. 1	74	9.06	July 10	79	21.0	Apr. 25	73	3.37
Oct. 31	64	8.84	Aug. 2	78	19.3	July 10	74	2.91
Dec. 1	48	9.32	Sept. 19	81	111	Aug. 19	86	2.77
Dec. 10	51	13.2	Oct. 24	68	22.7	Sept. 28	72	14.8
Dec. 18	49	1,180	Dec. 4	58	27.5	Oct. 30	60	14.6
Dec. 19	50	700	Jan. 19, 1963	45	23.6	Dec. 3	55	15.2
Dec. 20	50	495	Feb. 21	48	33.4	Jan. 6, 1966	50	18.7
Jan. 12, 1960	50	119	Mar. 30	68	24.1	Mar. 19	59	12.0
Feb. 20	50	227	May 6	72	24.8	Apr. 25	67	2,900
Mar. 26	56	854	June 14	80	6.80	May 22	74	36.8
Apr. 24	67	68.5	July 27	77	6.19	July 8	77	31.7
Apr. 25	64	64.4	Sept. 8	79	8.71	Aug. 4	77	31.8
May 23	68	59.5	Oct. 10	71	4.92	Sept. 12	75	32.4
July 10	74	11.3						

SABINE RIVER BASIN

8-0224. Socagee Creek near Carthage, Tex.

Location.--Lat 32°13'54", long 94°05'31", at bridge on Farm Road 123, 1.4 miles upstream from Salt Creek, and 15 miles east of Carthage, Panola County.

Drainage area.--82.6 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 21, 1962	62	31.3	Jan. 13, 1964	32	7.74	Mar. 10, 1965	53	12.0
Apr. 24	65	6.67	Feb. 19	44	14.4	May 19	71	37.1
May 29	72	1.41	Mar. 4	52	193	June 21	62	2.10
July 4	76	3.40	Mar. 25	60	17.8	Jan. 19, 1966	43	2.42
Oct. 16	74	.03	Apr. 26	68	780	Feb. 15	49	33.5
Nov. 20	49	.23	May 7	70	6.61	Mar. 30	54	2.24
Dec. 18	47	.14	June 2	65	.69	May 2	64	873
Jan. 29, 1963	35	3.23	Feb. 3, 1965	40	.48	May 12	68	8.14
Mar. 5	57	21.6						

SABINE RIVER BASIN

8-0225. Sabine River at Logansport, La.

Location.--Lat 31°58'44", long 94°00'58", at Logansport, De Soto Parish, 4,700 ft upstream from bridge on U. S. Highway 84, 4,800 ft upstream from Texas and New Orleans Railroad Co. bridge, and 4 miles upstream from Bayou Castor.

Drainage area.--4,839 sq mi.

Remarks.--Some regulation by Lake Tawakoni since 1960.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 10, 1948	59	128	July 28, 1954	91	50.4	July 22, 1959	88	300
Dec. 14	58	279	July 28	91	52.0	Aug. 27	84	239
Jan. 22, 1949	47	5,710	Aug. 17	92	33.4	Sept. 30	83	310
Mar. 1	54	9,160	Sept. 17	82	17.8	Dec. 1	50	496
Mar. 24	61	3,620	Oct. 11	83	33.9	Jan. 12, 1960	50	10,100
May 10	76	5,600	Oct. 11	83	35.4	Feb. 16	50	4,540
June 10	81	2,290	Nov. 1	60	1,760	Mar. 15	50	7,730
July 18	83	3,710	Nov. 1	60	1,790	Apr. 26	70	1,420
Aug. 17	88	728	Nov. 4	55	2,850	July 6	80	2,100
Oct. 11	75	5,290	Dec. 15	48	2,940	Aug. 2	90	437
Nov. 19	56	1,250	Jan. 19, 1955	46	2,620	Aug. 30	85	775
Dec. 30	49	1,730	Mar. 23	46	6,640	Oct. 26	70	543
Feb. 3, 1950	53	10,600	Mar. 25	45	8,240	Jan. 10, 1961	50	10,600
Feb. 20	55	25,700	Apr. 19	68	11,900	Feb. 7	53	6,110
Apr. 7	65	1,340	May 17	78	577	Mar. 7	68	7,230
May 24	75	13,800	June 14	80	428	May 16	75	843
June 13	78	6,800	July 22	84	1,270	June 21	72	5,960
Aug. 22	83	552	Aug. 23	88	286	July 18	80	3,320
Oct. 6	72	520	Sept. 24	83	140	Aug. 22	85	589
Nov. 7	61	694	Oct. 25	66	105	Oct. 31	70	342
Dec. 7	46	570	Nov. 15	71	87.2	Feb. 13, 1962	59	2,050
Jan. 17, 1951	50	3,310	Dec. 21	48	190	Mar. 21	57	4,680
Feb. 15	48	3,290	Feb. 1, 1956	57	596	May 29	80	591
Mar. 22	58	1,820	Mar. 13	55	1,000	Aug. 6	90	968
Apr. 24	72	746	Mar. 14	51	2,310	Aug. 24	90	141
May 24	78	833	Apr. 11	59	2,600	Oct. 17	79	743
June 26	84	3,530	July 18	91	48.1	Dec. 18	51	654
July 24	89	198	Aug. 23	87	24.3	Aug. 22, 1963	88	97.5
Aug. 22	85	72.0	Aug. 23	87	23.9	Aug. 27	89	83.4
Sept. 25	80	154	Sept. 11	83	28.0	Nov. 4	66	50.4
Nov. 8	52	307	Sept. 11	83	26.8	Jan. 13, 1964	39	379
Dec. 13	51	649	Oct. 18	72	22.1	Feb. 19	49	793
Jan. 25, 1952	55	1,300	Nov. 20	59	340	May 7	72	2,060
May 6	73	8,890	Dec. 18	56	134	June 2	68	296
June 9	78	6,370	Dec. 18	56	127	July 8	95	56.9
July 14	87	152	Jan. 22, 1957	52	148	July 30	89	42.8
Aug. 12	90	100	June 18	81	17,600	Aug. 10	92	27.8
Sept. 9	82	40.8	July 16	94	299	Sept. 16	80	38.6
Oct. 1	76	38.4	Aug. 27	86	138	Oct. 20	60	82.4
Nov. 19	62	97.7	Oct. 8	73	505	Nov. 23	53	184
Mar. 12, 1953	62	6,750	Dec. 11	47	5,130	Dec. 29	53	205
May 1	72	9,770	Jan. 15, 1958	50	5,770	Feb. 3, 1965	46	530
June 20	93	337	Feb. 20	46	4,090	Mar. 10	54	4,210
Aug. 20	85	262	Mar. 4	46	2,360	May 19	73	7,690
Sept. 16	79	846	May 21	70	20,000	June 22	61	6,260
Oct. 13	75	89.5	June 25	82	4,700	July 26	72	144
Nov. 12	55	213	July 29	92	596	Oct. 6	80	246
Nov. 17	56	359	Aug. 12	88	326	Nov. 10	69	108
Dec. 30	46	1,220	Sept. 10	85	364	Dec. 13	56	780
Mar. 12, 1954	63	825	Oct. 22	72	755	Jan. 19, 1966	47	364
Apr. 7	73	675	Dec. 17	42	676	Feb. 15	54	2,780
May 11	64	2,980	Jan. 15, 1959	51	839	Mar. 30	62	420

SABINE RIVER BASIN

B-0232. Tenaha Creek near Shelbyville, Tex.

Location.--Lat 31°45'56", long 94°05'02", at bridge on State Highway 87, 1 mile northwest of Shelbyville, Shelby County, 4.2 miles downstream from Gulf, Colorado and Santa Fe Railway Co. bridge, and 5.0 miles upstream from Beauchamp Creek:

Drainage area.--97.8 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 6, 1952	52	54.0	Feb. 1, 1956	60	27.2	Aug. 22, 1961	76	3.06
Apr. 3	63	25.7	Mar. 14	50	91.2	Sept. 15	70	677
Apr. 12	62	368	Apr. 11	55	47.9	Sept. 26	79	10.3
Apr. 12	62	520	June 18	78	13.6	Oct. 30	69	5.60
Apr. 15	58	213	July 19	88	.06	Nov. 29	53	25.3
May 19	65	87.2	Dec. 27	48	.55	Dec. 11	57	1,110
June 12	77	9.20	Jan. 22, 1957	62	.61	Jan. 9, 1962	41	47.3
July 14	86	2.76	Jan. 23	48	.63	Feb. 13	61	41.3
Aug. 12	83	1.56	May 7	65	44.2	Mar. 22	60	49.3
Oct. 1	73	.28	June 18	77	7.34	Apr. 24	67	102
Nov. 19	58	104	July 16	82	2.53	May 1	71	1,600
Dec. 15	39	7.21	Oct. 11	67	1.25	May 30	73	20.0
Jan. 21, 1953	48	14.1	Dec. 12	41	57.1	July 4	80	7.95
Mar. 11	61	8,310	Jan. 15, 1958	50	597	Aug. 7	65	.74
Apr. 29	65	13,700	Feb. 20	46	59.2	Jan. 28, 1963	35	14.6
May 15	67	791	Apr. 9	59	22.6	Mar. 5	59	48.6
May 16	65	643	May 21	69	20.6	Nov. 4	62	.12
June 20	91	10	June 26	78	27.8	Dec. 11	48	1.07
Aug. 20	77	5.50	July 8	78	15.5	Jan. 14, 1964	32	4.20
Sept. 16	80	1.00	Aug. 20	77	.68	Feb. 18	50	8.86
Oct. 13	68	.68	Sept. 12	75	5.68	Mar. 25	62	34.5
Nov. 12	49	1.84	Jan. 15, 1959	56	25.2	May 7	72	15.5
Dec. 30	46	27.5	Mar. 26	64	91.7	June 2	70	29.5
Feb. 5, 1954	52	17.1	June 5	72	85.3	July 7	84	.36
Mar. 12	68	13.7	July 22	80	3.00	Sept. 16	75	.03
Apr. 6	72	8.32	Aug. 27	78	16.1	Oct. 20	64	.17
May 11	61	25.6	Sept. 30	77	1.66	Nov. 23	46	1.21
May 13	65	794	Oct. 28	60	3.99	Dec. 28	49	1.29
May 14	65	296	Dec. 1	48	10.3	Feb. 3, 1965	43	2.03
June 3	78	3.86	Feb. 16, 1960	48	87.4	May 19	78	133
Nov. 23	48	.95	Mar. 15	49	223	June 23	57	3.80
Dec. 15	49	2.62	Apr. 27	70	67.7	July 27	60	.33
Jan. 18, 1955	48	24.9	May 24	78	5.86	Aug. 31	78	1.02
Mar. 8	57	9.17	July 6	83	4.84	Oct. 5	77	.93
Mar. 22	46	816	Aug. 2	81	2.95	Nov. 10	66	1.53
Apr. 19	71	40.6	Aug. 30	85	497	Dec. 14	55	5.53
May 17	76	6.49	Oct. 4	71	9.64	Jan. 19, 1966	59	16.9
June 14	82	1.32	Oct. 26	67	12.5	Feb. 10	58	3,270
July 22	78	5.04	Dec. 1	50	51.4	Feb. 11	56	1,790
Aug. 23	84	1.07	Feb. 7, 1961	52	417	Feb. 14	52	138
Sept. 24	76	.63	Apr. 11	57	85.2	Mar. 30	58	61.5
Oct. 25	68	.1	May 16	70	27.5	May 5	54	164
Nov. 15	72	.24	July 18	79	35.8	June 7	74	6.14
Dec. 21	50	2.28						

SABINE RIVER BASIN

8-0244. Sabine River near Milan, Tex.

Location.--Lat 31°28'01", long 93°44'41", at bridge on State Highway 21, 2.8 miles downstream from Patroon Bayou, 6.5 miles northeast of Milan, Sabine County, and 7.2 miles upstream from Palo Gaucho Bayou.

Drainage area.--6,508 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 10, 1948	58	153	Sept. 4, 1953	82	430	July 30, 1958	89	681
Dec. 14	60	343	Sept. 15	80	1,290	Oct. 21	73	1,080
Jan. 20, 1949	47	8,860	Oct. 14	74	124	Dec. 18	54	888
Mar. 7	56	9,860	Nov. 10	55	223	Jan. 16, 1959	46	1,080
Apr. 19	63	5,660	Dec. 8	54	3,240	Oct. 1	81	264
May 23	83	873	Jan. 18, 1954	50	3,240	Oct. 27	64	4,610
June 10	84	2,040	Mar. 8	53	1,610	Dec. 2	52	609
July 19	85	3,590	Apr. 6	72	991	Jan. 13, 1960	50	14,400
Aug. 17	88	1,020	May 5	68	3,460	Feb. 17	50	5,880
Oct. 11	75	8,760	July 27	92	75.6	Mar. 16	50	13,000
Nov. 19	57	1,820	Aug. 17	92	52.9	May 25	76	1,240
Dec. 30	51	3,040	Sept. 17	82	34.2	Aug. 3	91	745
Feb. 6, 1950	54	12,500	Oct. 6	85	35.9	Oct. 25	71	748
Feb. 16	55	22,800	Nov. 4	54	1,960	Dec. 1	55	2,990
Mar. 17	57	6,710	Nov. 24	48	1,770	Jan. 13, 1961	50	26,700
Apr. 12	68	1,470	Dec. 15	57	1,420	May 17	79	1,220
May 24	76	13,700	Jan. 19, 1955	46	1,510	July 19	85	3,410
June 9	74	29,000	Mar. 9	60	1,660	Aug. 23	84	687
July 14	82	2,270	Mar. 23	50	9,220	Nov. 1	71	410
Aug. 21	85	662	Apr. 20	71	14,100	Nov. 30	50	7,210
Oct. 6	70	968	May 18	78	785	Feb. 14, 1962	61	2,900
Nov. 7	64	462	June 15	79	598	Apr. 25	68	3,580
Dec. 7	43	887	July 22	85	1,690	July 5	88	1,470
Jan. 17, 1951	51	2,740	Aug. 24	85	484	Aug. 24	88	159
Feb. 15	50	2,860	Sept. 25	82	261	Oct. 17	80	622
Mar. 22	69	2,410	Oct. 26	66	144	Oct. 2, 1963	72	97.4
Apr. 23	71	1,040	Nov. 16	68	107	Nov. 4	68	67.2
May 24	77	1,340	Dec. 21	49	237	Dec. 12	48	179
June 26	84	3,340	Mar. 14, 1956	53	1,660	Feb. 18, 1964	50	912
July 23	92	332	Apr. 11	59	12,900	Mar. 24	59	3,560
Aug. 21	92	105	June 19	79	337	July 9	93	105
Sept. 25	79	262	July 19	91	83.0	Aug. 11	90	45.7
Nov. 8	55	271	Aug. 24	87	37.0	Sept. 15	81	53.3
Dec. 14	56	1,260	Sept. 12	78	38.9	Oct. 20	65	105
Jan. 25, 1952	60	1,030	Oct. 17	72	24.8	Nov. 25	57	106
Mar. 13	58	9,460	Nov. 21	59	512	Dec. 29	55	260
Apr. 17	60	12,300	Dec. 19	58	110	Feb. 4, 1965	48	657
June 17	83	7,110	Jan. 23, 1957	53	202	May 20	81	10,400
Aug. 14	87	175	May 8	73	52,100	June 24	61	5,830
Sept. 12	82	61.5	July 17	89	517	July 28	67	203
Oct. 1	79	55.0	Aug. 27	89	200	Aug. 31	88	150
Nov. 20	60	215	Oct. 9	72	870	Oct. 5	80	529
Dec. 16	45	2,800	Dec. 18	62	3,290	Nov. 9	70	151
Mar. 17, 1953	64	28,900	Jan. 16, 1958	49	9,260	Dec. 15	58	562
Mar. 19	67	27,300	Feb. 20	45	6,010	Jan. 18, 1966	56	1,070
Mar. 26	67	17,400	Apr. 10	66	3,800	Feb. 16	51	18,200
June 20	92	611	May 23	73	30,800	Mar. 29	58	708
July 21	79	917	June 26	81	8,400			

SABINE RIVER BASIN

8-0245. Palo Gaucho Bayou near Hemphill, Tex.

Location.--Lat 31°23'10", long 93°50'07", at bridge on State Highway 87, 0.2 mile upstream from Boregas Creek, 3.6 miles north of Hemphill, Sabine County, and 4.2 miles downstream from Sandy Creek.

Drainage area.--123 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 7, 1952	56	92.1	June 14, 1955	81	15.8	Aug. 31, 1960	85	5.71
Mar. 12	62	276	July 21	79	3.80	Oct. 25	64	5.34
Apr. 3	62	63.7	Aug. 23	66	1.07	Nov. 30	53	61.2
Apr. 4	60	307	Sept. 24	78	1.39	May 18, 1961	73	29.9
Apr. 4	60	395	Oct. 26	68	.10	June 21	70	100
Apr. 16	65	165	Nov. 16	65	.60	July 19	78	27.3
May 15	71	25.6	Dec. 22	52	7.83	Aug. 23	74	7.86
July 18	81	499	Jan. 31, 1956	56	22.3	Sept. 28	80	23.9
Aug. 14	88	5.93	Mar. 14	51	196	Nov. 1	68	14.4
Nov. 20	56	33.3	June 19	80	.54	Nov. 29	54	43.7
Dec. 16	39	12.0	Dec. 19	56	1.41	Dec. 11	59	975
Jan. 29, 1953	53	70.9	Jan. 23, 1957	51	11.0	Feb. 14, 1962	62	85.4
Mar. 24	63	308	May 7	67	165	Mar. 22	59	74.6
Apr. 30	68	4,080	June 19	80	14.3	Apr. 25	64	201
May 16	68	2,890	July 17	80	2.60	May 2	68	1,610
July 16	78	13.3	Jan. 16, 1958	49	202	May 30	75	67.9
Sept. 4	75	4.96	Apr. 10	60	49.3	July 6	76	15.7
Sept. 15	74	1.72	July 16	82	5.07	Aug. 8	81	0.69
Oct. 15	68	.39	Sept. 12	75	10.0	Oct. 17	74	3.59
Nov. 10	48	14.4	Oct. 21	66	34.0	Dec. 12	46	7.89
Dec. 28	45	32.3	Jan. 16, 1959	48	44.5	Dec. 17	39	20.3
Feb. 4, 1954	51	55.5	June 4	74	40.6	Jan. 16, 1964	37	17.6
Mar. 8	50	36.4	July 24	78	3.19	Feb. 18	48	40.9
Apr. 6	70	17.2	Aug. 28	78	19.1	Mar. 2	55	782
Apr. 16	67	912	Sept. 30	78	2.12	Mar. 5	50	295
May 5	62	122	Oct. 27	60	3.95	Mar. 24	57	79.2
June 3	76	15.6	Dec. 2	46	9.05	May 6	70	51.6
July 27	80	.68	Jan. 13, 1960	50	81.2	June 3	68	22.3
Nov. 24	48	1.00	Feb. 17	48	150	Sept. 15	73	.10
Dec. 14	57	7.52	Mar. 16	49	238	Nov. 25	45	2.70
Jan. 18, 1955	47	57.0	Apr. 28	72	26.0	Dec. 29	54	6.58
Mar. 8	58	24.7	May 25	78	7.14	Feb. 3, 1965	44	7.51
Mar. 25	48	54.0	July 7	82	10.3	May 20	68	9.70
Apr. 14	66	1,580	Aug. 3	82	3.11	June 24	57	1.91
May 17	77	7.35						

SABINE RIVER BASIN

8-0260. Sabine River below Toledo Bend, near Burkeville, Tex.

Location.--Lat 31°03'50", long 93°31'10", at bridge on State Highway 63, about 200 ft downstream from Pearl Creek, 10 miles northeast of Burkeville, Newton County, 16 miles downstream from Bayou Toro, and 23 miles downstream from Toledo Bend Dam, under construction in 1966.

Drainage area.--7,482 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 21, 1955	85	435	Nov. 6, 1958	62	1,280	Aug. 8, 1962	92	870
Oct. 18	68	335	Aug. 26, 1959	82	477	Aug. 25	86	262
Nov. 18	61	188	Sept. 29	83	334	July 24, 1963	89	264
Dec. 22	50	401	Oct. 26	68	5,200	Oct. 2	74	122
Jan. 31, 1956	52	1,200	Dec. 3	52	699	Nov. 3	66	88.0
Mar. 16	53	3,170	Jan. 14, 1960	50	14,200	Jan. 16, 1964	38	1,090
Apr. 13	60	12,600	Mar. 18	50	13,900	Feb. 18	52	1,140
June 21	82	416	Apr. 28	70	1,640	Mar. 24	56	4,780
July 20	94	144	May 26	78	1,340	July 10	90	110
Aug. 23	82	74.2	July 7	80	2,040	Aug. 11	90	123
Sept. 12	84	74.9	Aug. 4	91	908	Oct. 21	73	161
Nov. 22	58	591	Sept. 1	88	1,430	Nov. 30	55	329
Nov. 22	59	582	Oct. 25	69	858	Dec. 30	58	368
Dec. 20	62	360	Feb. 10, 1961	60	10,100	Feb. 4, 1965	49	807
Jan. 23, 1957	51	326	Apr. 13	59	18,000	Apr. 13	69	3,310
May 9	73	40,600	May 18	81	1,560	May 20	78	10,200
Aug. 29	88	260	May 22	73	6,770	Sept. 1	86	227
Jan. 17, 1958	49	9,870	July 20	84	3,570	Nov. 9	68	389
Feb. 21	46	6,720	Aug. 23	85	1,120	Dec. 16	56	1,480
Apr. 16	64	6,590	Sept. 28	80	1,400	Jan. 18, 1966	54	1,670
May 13	70	25,500	Nov. 1	74	591	Feb. 17	52	27,700
June 11	85	1,400	Feb. 15, 1962	60	3,460	Mar. 29	56	1,220
July 16	86	3,040	Apr. 25	71	3,310	July 15	92	420
Oct. 1	71	27,000	July 6	87	1,610	Sept. 14	82	547

SABINE RIVER BASIN

8-0285. Sabine River near Bon Wier, Tex.

Location.-- Lat 30°45'00", long 93°36'30", at bridge on U. S. Highway 190, 0.7 miles upstream from Quicksand Creek, 0.8 mile upstream from Gulf Colorado and Santa Fe Railway Co. bridge, and 2.0 miles east of Bon Wier, Newton County.

Drainage area.--3,229 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 9, 1948	54	1,200	Oct. 2, 1953	84	756	Sept. 25, 1959	81	592
Jan. 10, 1949	55	4,000	Nov. 5	64	550	Oct. 21	69	4,220
Feb. 17	55	13,500	Dec. 7	58	3,920	Dec. 3	54	1,010
Mar. 22	60	19,200	Jan. 12, 1954	48	6,010	Jan. 14, 1960	50	15,400
Apr. 21	64	7,990	Mar. 1	58	3,360	Mar. 18	46	16,500
May 13	76	7,160	Apr. 5	74	1,490	May 25	70	1,970
June 21	85	3,330	May 4	68	17,400	July 7	70	2,090
July 20	87	3,740	July 9	88	486	Sept. 27	77	503
Aug. 23	86	1,090	Aug. 12	91	297	Oct. 27	73	1,230
Oct. 25	70	5,200	Aug. 13	91	278	Dec. 1	63	4,340
Nov. 30	65	1,540	Sept. 14	85	221	Feb. 8, 1961	46	13,400
Jan. 14, 1950	58	28,600	Sept. 14	85	211	Mar. 10	61	13,700
Feb. 25	57	31,200	Oct. 1	83	223	May 18	75	23,20
Apr. 5	61	4,840	Oct. 27	74	366	July 20	85	4,340
May 5	71	24,800	Nov. 5	56	1,640	Aug. 23	83	1,400
June 8	74	59,400	Nov. 16	60	3,450	Sept. 28	82	2,040
July 13	83	5,610	Dec. 14	57	875	Oct. 25	71	930
Aug. 16	87	4,590	Jan. 21, 1955	48	2,890	Mar. 21, 1962	60	7,060
Oct. 4	77	2,460	Mar. 8	60	3,510	Apr. 25	70	3,370
Oct. 5	75	2,370	Mar. 28	48	10,400	July 11	85	1,670
Nov. 15	51	1,080	Apr. 21	70	15,000	Oct. 18	76	808
Dec. 2	49	1,870	May 19	76	1,440	Nov. 21	53	1,390
Jan. 16, 1951	54	6,340	June 16	80	1,320	Dec. 18	51	1,820
Feb. 16	50	6,140	Aug. 25	85	1,120	Jan. 30, 1963	40	2,100
Mar. 21	54	4,240	Sept. 20	80	903	Mar. 7	55	4,680
Apr. 20	67	2,890	Oct. 27	66	440	May 16	74	6,530
May 18	76	2,980	Nov. 30	50	629	July 23	89	692
June 27	86	3,770	Jan. 4, 1956	57	636	Aug. 20	90	344
July 24	89	863	Feb. 9	58	13,300	Dec. 5	56	724
Aug. 22	86	361	Mar. 16	55	5,430	Jan. 7, 1964	42	1,210
Sept. 26	79	1,500	Apr. 13	62	13,400	Feb. 12	52	2,170
Nov. 2	62	735	June 21	84	724	Mar. 18	64	5,280
Dec. 14	59	2,350	June 21	84	711	Apr. 28	72	15,600
Jan. 15, 1952	62	1,610	July 21	86	297	May 26	84	1,010
Feb. 20	58	12,100	Aug. 20	90	200	July 2	81	569
Apr. 9	67	3,740	Sept. 14	87	184	Aug. 11	90	240
May 13	70	10,800	Oct. 16	76	183	Sept. 9	88	360
June 5	76	7,830	Nov. 23	58	784	Nov. 17	76	348
June 20	83	6,350	Jan. 24, 1957	52	859	Dec. 17	58	1,420
July 26	86	1,150	Aug. 28	90	568	Jan. 27, 1965	56	2,600
Aug. 26	90	408	Oct. 30	65	9,620	Mar. 4	47	9,250
Sept. 19	83	349	Apr. 16, 1958	64	11,500	Apr. 6	67	15,600
Oct. 17	63	278	May 15	74	25,400	May 12	83	849
Nov. 21	56	683	June 11	86	1,910	July 21	90	860
Jan. 14, 1953	56	3,000	July 17	88	3,440	Aug. 25	90	851
Mar. 23	68	32,200	Sept. 9	82	1,460	Dec. 8	53	367
Apr. 16	69	2,980	Sept. 27	77	26,100	Apr. 26, 1966	72	6,950
May 20	71	104,000	Dec. 20	50	1,580	July 7	83	994
May 21	71	90,000	June 18, 1959	87	3,030	Aug. 18	89	647
July 16	85	1,110	Aug. 25	82	883	Sept. 14	84	980
Sept. 2	78	1,330						

SABINE RIVER BASIN

8-0295. Big Cow Creek near Newton, Tex.

Location.--Lat 30°49'10", long 93°47'05", at bridge on State Highway 87, 2.6 miles southwest of Newton, Newton County, 5.0 miles downstream from Melhones Creek, and 8.0 miles upstream from Whiteoak Creek.

Drainage area.--128 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 9, 1952	54	53.8	Nov. 29, 1955	49	42.1	Sept. 27, 1961	75	73.6
Apr. 7	60	82.3	Jan. 4, 1956	53	34.2	Oct. 16	63	51.3
Apr. 15	60	128	Mar. 16	56	174	Jan. 17, 1962	43	136
Apr. 24	64	1,590	Apr. 13	62	50.3	Feb. 15	64	125
May 9	74	53.8	July 21	88	17.4	Mar. 21	61	93.4
May 20	65	294	Aug. 21	84	12.8	Apr. 27	67	83.2
May 29	70	538	Sept. 13	76	15.8	May 2	67	406
June 19	77	42.4	Oct. 16	66	15.8	July 11	80	41.9
July 19	82	286	Nov. 23	51	31.3	Aug. 9	85	31.7
Aug. 26	78	29.0	Dec. 20	60	95.4	Sept. 11	76	69.0
Oct. 2	70	23.4	Apr. 24, 1957	71	45.1	Oct. 18	73	36.5
Nov. 20	56	115	June 6	56	54.9	Nov. 21	52	168
Dec. 5	57	978	July 17	84	22.4	Dec. 17	52	49.5
Jan. 14, 1953	55	55.8	Dec. 13	47	67.9	Jan. 31, 1963	45	78.0
Feb. 16	55	236	Mar. 4, 1958	59	80.2	Mar. 7	55	87.8
Feb. 24	47	1,050	Mar. 27	68	96.8	Apr. 8	59	94.7
Apr. 16	62	54.5	Apr. 17	64	92.9	May 15	74	25.5
Apr. 30	65	2,370	May 15	71	43.0	June 19	76	27.4
May 18	69	13,400	June 13	78	27.8	July 23	82	21.5
July 16	77	123	July 31	81	22.5	Aug. 20	74	19.0
Sept. 2	76	60.2	Aug. 21	79	21.0	Dec. 5	48	78.0
Oct. 2	74	43.0	Oct. 1	69	118	Jan. 6, 1964	50	125
Oct. 2	74	42.6	Dec. 18	44	39.5	Feb. 12	48	69.8
Nov. 3	63	52.0	Jan. 28, 1959	51	45.5	Mar. 17	66	76.1
Dec. 7	53	86.4	Feb. 25	56	246	Apr. 28	67	358
Jan. 18, 1954	54	99.7	Mar. 23	59	56.7	May 26	74	57.8
Feb. 4	58	66.9	Apr. 27	67	72.6	July 3	76	34.8
Mar. 1	58	54.1	June 18	80	35.0	Aug. 10	79	25.9
Apr. 5	72	49.7	Aug. 12	82	35.2	Sept. 9	78	23.8
Apr. 5	72	49.3	Oct. 21	65	29.5	Nov. 18	69	31.9
Apr. 16	68	635	Oct. 27	62	29.1	Dec. 17	54	48.4
May 3	66	2,240	Dec. 4	48	39.8	Jan. 28, 1965	47	41.9
June 2	76	67.2	Mar. 17, 1960	46	101	Mar. 4	50	82.1
July 9	82	31.3	Apr. 26	70	72.2	Apr. 5	70	62.7
Aug. 12	82	28.0	May 25	64	26.1	May 12	73	22.7
Oct. 1	78	31.7	July 7	65	26.4	June 16	75	19.3
Nov. 5	51	37.7	Sept. 13	74	25.0	July 20	80	14.1
Nov. 22	55	42.4	Oct. 26	68	33.2	Aug. 25	86	26.1
Dec. 13	54	137	Nov. 29	59	48.8	Sept. 29	70	23.5
Jan. 17, 1955	53	127	Jan. 13, 1961	51	773	Nov. 3	58	16.8
Feb. 21	46	359	Feb. 10	47	104	Dec. 8	47	28.5
Mar. 30	58	45.8	Mar. 10	60	99.8	Feb. 10, 1966	55	8,400
Apr. 18	70	81.7	Apr. 11	58	95.0	Feb. 17	53	324
May 16	77	35.3	Apr. 25	72	64.2	Mar. 24	60	63.6
June 16	74	31.4	May 18	75	48.4	Apr. 25	64	353
July 21	77	43.6	June 22	72	88.3	June 3	68	26.3
Aug. 25	80	30.9	July 20	79	64.6	July 7	76	62.1
Sept. 20	78	27.7	Aug. 23	76	50.5	Aug. 18	80	31.9
Oct. 26	60	25.8	Sept. 14	75	2,490	Sept. 14	70	34.0

SABINE RIVER BASIN

6-0300. Cypress Creek near Buna, Tex.

Location.--Lat 30°25'45", long 93°54'20", at bridge on Farm Road 253, 1.0 mile downstream from unnamed tributary, 3.2 miles east of Buna, Jasper County, and 10 miles upstream from Little Cypress Creek.

Drainage area.--69.2 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 11, 1952	60	6.52	Apr. 18, 1956	65	0.79	Sept. 25, 1961	77	1.12
Apr. 5	63	2.73	May 22	77	--	Jan. 16, 1962	44	133
Apr. 23	67	3,630	July 3	88	--	Feb. 12	63	4.86
May 3	66	21.4	Nov. 8	64	1.07	Mar. 20	58	8.08
May 20	68	1,900	Dec. 21	61	22.6	Apr. 23	70	.27
May 21	74	1,010	Dec. 28	49	10.8	July 9	85	.24
May 24	72	700	Jan. 25, 1957	49	7.62	Jan. 28, 1963	38	12.4
June 4	76	5.15	Apr. 23	73	4.20	Mar. 4	55	18.3
Dec. 9	62	.66	June 5	55	33.4	Apr. 8	66	.31
Jan. 14, 1953	54	.30	Oct. 23	71	16.2	July 25	75	52.7
Feb. 16	57	382	Feb. 15, 1958	43	179	Dec. 3	51	54.2
Mar. 9	62	10.2	Apr. 4	64	34.2	Jan. 8, 1964	52	173
Sept. 1	79	9.93	Dec. 30	51	7.08	Feb. 11	50	20.7
Nov. 24	55	.56	Jan. 29, 1959	54	.97	Mar. 17	65	10.3
Dec. 4	60	418	Mar. 6	54	33.9	Apr. 28	67	258
Dec. 5	59	69.9	June 19	77	.80	May 25	73	5.82
Dec. 5	59	63.4	Sept. 17	73	1.41	Sept. 9	78	1.24
Jan. 16, 1954	57	48.2	Oct. 22	64	1.14	Nov. 18	72	.16
Mar. 4	67	.60	Dec. 1	48	1.47	Dec. 18	58	17.0
Apr. 17	67	776	Jan. 13, 1960	58	214	Jan. 29, 1965	49	9.61
Apr. 18	66	493	Jan. 19	48	475	Mar. 3	52	820
Apr. 19	68	282	Jan. 21	48	113	Apr. 6	71	21.0
May 26	70	401	Jan. 22	45	67.3	May 12	79	.08
Aug. 2	88	.47	Mar. 17	46	30.8	July 20	78	.37
Aug. 24	78	1.55	Apr. 26	70	34.7	Aug. 24	89	.44
Jan. 27, 1955	50	15.1	Aug. 2	68	2.53	Sept. 29	78	.40
Feb. 25	50	272	Oct. 25	69	10.4	Dec. 7	51	2.18
Mar. 7	61	7.61	Jan. 10, 1961	47	1,270	Jan. 11, 1966	52	13.7
Apr. 25	71	2.80	Feb. 8	45	110	Feb. 15	52	628
July 28	76	25.0	Mar. 8	67	41.1	Mar. 21	70	2.28
Dec. 3	56	54.7	Apr. 11	58	43.0	Apr. 26	71	364
Jan. 5, 1956	55	.60	June 22	72	25.4	June 1	72	.66
Mar. 22	59	242	July 26	78	6.32	Aug. 18	81	.08

SABINE RIVER BASIN

8-0305. Sabine River near Ruliff, Tex.

Location.--Lat 30°18'13", long 93°44'37", at bridge on State Highway 12, 2.4 miles north of Ruliff, Newton County, 4.2 miles upstream from The Kansas City Southern Railway Co. bridge, and 4.5 miles downstream from Cypress Creek.

Drainage area.--9,329 sq mi.

Water-temperature records available.--Once-daily readings usually in the morning, October 1948 to September 1966.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1948	Mean	77	63	-	-	47	60	71	-	83	86	87	81
	Max.-Min.	80 74	69 56	- -	- -	59 37	64 49	76 65	- -	87 78	89 85	88 82	84 76
1949	Mean	71	63	-	-	56	62	-	77	83	85	85	83
	Max.-Min.	76 65	76 58	- -	- -	63 47	66 59	- -	80 74	86 81	87 83	87 83	86 75
1950	Mean	73	60	-	61	60	60	-	75	-	84	-	-
	Max.-Min.	76 62	66 57	- -	67 55	65 57	67 56	- -	78 72	- -	86 83	87 83	- -
1951	Mean	75	63	56	55	52	62	-	-	84	-	-	81
	Max.-Min.	89 71	75 57	61 50	59 48	61 43	67 58	- -	- -	88 80	- -	- -	88 76
1952	Mean	-	-	-	60	57	60	66	-	-	83	89	82
	Max.-Min.	- -	- -	- -	64 55	64 56	65 56	69 64	- -	- -	88 78	90 87	87 77
1953	Mean	68	60	53	54	55	64	70	-	-	84	86	85
	Max.-Min.	80 60	62 53	57 52	58 51	59 50	69 55	76 66	- -	- -	88 79	95 80	90 81
1954	Mean	79	68	65	53	58	62	73	71	83	85	85	82
	Max.-Min.	87 72	74 65	68 60	57 50	64 52	70 53	78 69	75 68	89 77	86 76	86 81	86 73
1955	Mean	75	57	53	50	47	60	62	77	82	84	-	84
	Max.-Min.	82 62	60 50	60 47	60 42	52 42	69 50	72 52	82 73	86 77	88 80	- -	86 80
1956	Mean	77	65	59	-	59	62	69	79	82	87	86	81
	Max.-Min.	86 67	72 54	67 49	- -	68 52	68 58	80 64	80 74	86 78	88 85	88 80	86 72
1957	Mean	79	61	58	55	60	63	68	75	81	86	86	82
	Max.-Min.	84 70	70 52	64 52	61 45	63 55	65 57	79 60	79 70	84 76	88 83	90 80	87 70
1958	Mean	69	60	54	51	49	57	68	74	85	86	85	80
	Max.-Min.	77 60	66 51	58 50	55 47	53 42	62 50	77 62	80 72	88 80	90 82	88 72	83 76
1959	Mean	71	61	52	52	55	60	62	78	82	83	83	81
	Max.-Min.	74 62	66 52	58 48	55 50	60 48	64 57	72 59	82 73	83 81	85 79	87 80	84 72
1960	Mean	75	61	57	58	52	57	72	75	85	86	85	80
	Max.-Min.	84 65	66 58	60 54	68 50	58 48	72 48	77 68	84 65	87 80	90 84	88 83	85 71
1961	Mean	73	63	-	50	53	64	66	77	80	81	84	79
	Max.-Min.	79 65	67 55	- -	54 41	61 41	69 59	72 61	83 70	85 72	85 77	86 80	86 70
1962	Mean	71	62	55	47	60	61	71	76	72	75	85	84
	Max.-Min.	80 68	74 52	60 40	55 39	65 52	66 55	74 61	84 70	76 66	84 68	97 72	91 74
1963	Mean	76	65	62	54	56	67	73	80	86	88	89	85
	Max.-Min.	84 65	74 59	70 49	68 49	65 52	72 58	79 65	86 79	90 81	91 85	90 86	89 79
1964	Mean	79	69	-	-	53	62	70	-	85	-	-	-
	Max.-Min.	81 72	71 59	- -	- -	56 50	65 53	76 66	- -	90 75	- -	- -	- -
1965	Mean	71	-	56	-	-	58	-	-	-	-	-	-
	Max.-Min.	77 67	- -	63 51	- -	- -	63 53	- -	- -	- -	- -	- -	- -
1966	Mean	-	-	-	-	-	-	-	-	-	-	86	-
	Max.-Min.	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	90 83	86 78
1948-66	Mean	74	62	56	54	55	61	69	76	82	84	86	82
	Max.-Min.	89 60	76 50	70 40	68 39	68 37	72 48	80 52	86 65	90 66	91 68	97 72	91 70

SABINE RIVER BASIN

8-0310. Cow Bayou near Mauriceville, Tex.

Location--Lat 30°11'10", long 93°54'30", at bridge on State Highway 12, half a mile upstream from Kansas City Southern Railway Co. bridge, and 3 miles southwest of Mauriceville, Orange County.

Drainage area--83.3 sq mi.

Water temperature records available--Once daily readings from March 1952 to September 1954.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1952	Mean	-	-	-	-	-	-	70	78	87	85	89	84
	Max.-Min.	-	-	-	-	-	-	76 57	84 72	91 80	89 76	93 84	89 80
1953	Mean	73	65	57	59	59	71	73	78	89	87	87	80
	Max.-Min.	85 63	76 47	68 49	66 51	67 48	78 64	78 65	89 70	94 80	93 80	96 77	87 75
1954	Mean	74	59	52	53	59	62	71	72	76	77	76	75
	Max.-Min.	84 57	67 49	67 41	61 43	65 50	71 50	75 65	77 64	81 73	79 75	76 71	76 71
1952-54	Mean	74	62	54	56	59	66	71	76	84	86	84	80
	Max.-Min.	85 57	76 47	68 41	66 43	67 48	76 50	78 57	89 64	94 73	93 75	96 71	89 71

NECHES RIVER BASIN

8-0312. Kickapoo Creek near Brownsboro, Tex.

Location--Lat 32°18'34", long 95°36'19", at bridge on Farm Road 314, and 1 mile northeast of Brownsboro, Henderson County.

Drainage area--232 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 25, 1962	64	180	June 10, 1964	81	2.99	Jan. 25, 1966	37	11.0
June 5	74	15.4	Dec. 2	54	1.48	Mar. 1	51	80.1
Aug. 14	85	.85	Jan. 7, 1965	63	7.46	Mar. 1	51	78.7
Sept. 8	69	1.03	Feb. 9	56	76.1	Apr. 6	55	15.2
Oct. 24	62	4.07	Mar. 15	63	29.5	Apr. 24	67	2,510
Nov. 28	57	84.4	Apr. 22	71	13.6	May 4	64	1,070
Dec. 17, 1963	39	1.29	May 26	74	127	July 20	83	11.0
Jan. 29, 1964	48	15.0	June 29	90	7.76	Aug. 25	71	16.1
Apr. 1	65	19.9	Dec. 20	47	9.33	Sept. 21	68	39.5
May 5	71	118						

NECHES RIVER BASIN

8-0320. Neches River near Neches, Tex.

Location.--Lat 31°53'32", long 95°25'50", at bridge on U. S. Highway 79, 1 mile downstream from Missouri Pacific Railroad Co. bridge, 1.4 miles downstream from Walnut Creek, 4.4 miles northeast of Neches, Anderson County, and 11 miles downstream from Lake Palestine.

Drainage area.--1,145 sq mi.

Remarks.--Some regulation by Lake Palestine since 1962.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 16, 1949	55	602	June 22, 1954	84	41.2	Feb. 2, 1961	46	2,220
Mar. 30	66	3,170	Aug. 26	81	1.87	Mar. 21	58	4,880
May 21	78	160	Sept. 22	81	.90	Apr. 26	68	537
June 23	85	104	Nov. 11	53	895	June 1	75	216
July 28	80	139	Dec. 10	49	207	July 11	77	379
Aug. 29	83	25.3	Jan. 14, 1955	47	405	Aug. 9	82	91.8
Nov. 14	58	264	Mar. 17	66	534	Sept. 20	73	201
Dec. 27	50	422	May 11	77	183	Oct. 11	73	119
Jan. 26, 1950	65	1,340	June 6	77	214	Nov. 14	59	180
Feb. 7	56	963	July 14	89	19.2	Dec. 14	46	651
Mar. 16	56	769	Aug. 10	85	39.7	Apr. 3, 1962	57	641
Apr. 10	65	309	Sept. 15	81	41.9	May 3	74	2,650
May 10	75	2,340	Oct. 12	73	73.0	June 6	76	491
June 9	77	1,720	Nov. 9	54	26.2	Oct. 26	62	152
July 20	84	178	Dec. 14	45	96.9	July 30, 1963	84	21.7
Aug. 23	61	49.5	Jan. 20, 1956	46	333	Nov. 13	54	5.47
Oct. 12	66	52.0	Feb. 22	57	637	Apr. 1, 1964	62	241
Nov. 16	59	126	Apr. 3	69	165	May 5	72	186
Dec. 8	45	129	June 12	84	33.5	June 10	80	75.3
Dec. 14	46	137	July 11	86	17.9	Aug. 20	86	6.05
Jan. 10, 1951	45	167	Aug. 15	89	3.20	Sept. 24	78	6.76
Feb. 22	55	1,010	Sept. 19	81	2.34	Dec. 3	55	61.4
Mar. 14	51	428	Oct. 16	73	5.14	Jan. 6, 1965	58	144
June 5	77	173	Nov. 22	53	26.4	Feb. 11	58	837
July 11	84	98.1	Dec. 12	55	26.6	Mar. 17	56	764
Aug. 8	89	16.3	June 11, 1957	63	3,350	Apr. 23	72	147
Sept. 12	84	6.12	July 10	86	72.7	May 19	72	3,280
Oct. 17	66	16.6	Aug. 14	85	77.0	May 27	73	2,390
Nov. 20	46	64.0	Dec. 13	71	893	June 30	63	154
Jan. 23, 1952	57	308	Jan. 22, 1958	47	2,050	Aug. 4	82	23.5
Apr. 16	61	1,330	June 11	82	134	Oct. 13	70	24.1
May 15	73	168	Nov. 11	75	135	Nov. 17	66	41.5
June 19	84	102	Dec. 16	39	290	Dec. 21	49	175
Sept. 18	82	4.39	June 26, 1959	80	530	Jan. 25, 1966	40	151
Oct. 23	57	7.08	Apr. 5, 1960	62	683	Mar. 2	51	451
Nov. 14	51	21.3	May 10	75	302	Apr. 6	54	79.8
Apr. 22, 1953	63	231	June 14	70	297	May 3	70	8,910
Oct. 25	64	52.5	July 19	65	275	July 21	87	46.9
Dec. 17	45	487	Aug. 23	82	81.7	Aug. 24	80	49.1
May 14, 1954	57	1,910	Nov. 15	60	532	Sept. 22	70	274
May 15	65	3,070	Dec. 13	50	12,600			

NECHES RIVER BASIN

8-0325. Neches River near Alto, Tex.

Location.--Lat 31°34'45", long 95°09'55", at bridge on State Highway 21, 600 ft downstream from Bowles Creek, and 7½ miles southwest of Alto, Cherokee County.

Drainage area.--1,345 sq mi.

Water temperature records available.--Once daily readings October 1959 to September 1966.

Remarks.--Some regulation by Lake Palestine since 1962.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1960	Mean	-	54	54	49	50	54	68	73	78	83	83	78
	Max.-Min.	-	47	48	45	43	43	60	66	61	58	78	71
1961	Mean	70	59	48	48	52	62	64	74	76	79	81	77
	Max.-Min.	62	54	42	41	45	57	59	70	70	75	73	68
1962	Mean	67	58	52	45	58	65	64	74	78	84	84	80
	Max.-Min.	58	53	46	35	51	47	56	64	64	75	80	70
1963	Mean	72	57	51	44	48	62	70	75	81	86	86	80
	Max.-Min.	62	52	43	32	42	53	57	68	75	79	76	71
1964	Mean	72	60	44	46	49	66	69	82	81	88	86	80
	Max.-Min.	66	51	38	36	45	47	61	68	71	81	80	69
1965	Mean	65	61	49	51	49	53	70	71	76	84	81	78
	Max.-Min.	57	50	40	44	44	45	62	63	72	80	77	69
1966	Mean	65	64	53	48	49	59	67	72	77	83	80	75
	Max.-Min.	55	57	48	37	40	49	60	66	73	80	76	70
1960-66	Mean	68	59	50	47	51	58	67	73	78	83	83	78
	Max.-Min.	55	47	38	32	40	43	56	63	61	58	73	68

NECHES RIVER BASIN

8-0330. Neches River near Diboll, Tex.

Location.--Lat 31°07'55", long 94°48'30", at bridge on U. S. Highway 59, 630 ft downstream from Texas and New Orleans Railroad Co. bridge, 2.9 miles downstream from Alabama Creek, and 3.8 miles south of Diboll, Angelina County.

Drainage area.--2,724 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 29, 1950	76	2,110	Nov. 8, 1954	53	583	Aug. 10, 1961	85	271
June 15	80	2,780	Dec. 6	56	706	Sept. 21	72	643
July 17	81	827	Jan. 12, 1955	51	469	Oct. 12	75	281
Aug. 29	83	116	Mar. 14	72	1,430	Nov. 16	98	505
Oct. 10	69	138	June 6	77	1,530	Jan. 19, 1962	43	1,930
Nov. 8	64	158	July 23	85	72.2	Mar. 6	53	2,300
Dec. 6	47	319	Aug. 8	85	312	Apr. 6	60	1,510
Dec. 13	47	193	Sept. 30	82	131	May 2	68	12,600
Jan. 8, 1951	46	396	Oct. 14	70	134	July 16	84	307
Feb. 20	56	1,170	Nov. 7	61	38.0	Sept. 26	78	180
Mar. 29	57	2,500	Dec. 20	48	145	Oct. 31	64	198
Apr. 25	71	549	Jan. 24, 1956	57	403	Dec. 5	96	627
May 25	75	468	Feb. 23	60	1,080	Jan. 9, 1963	50	1,070
June 27	85	527	Apr. 20	60	1,510	Feb. 11	50	516
July 25	86	59.6	Apr. 11	58	1,520	Apr. 23	73	462
Aug. 20	87	19.5	May 7	72	1,200	May 28	78	770
Sept. 24	78	82.7	July 13	85	30.2	July 2	82	216
Nov. 7	55	97.9	Aug. 16	88	4.67	Dec. 2	52	99.5
Dec. 12	57	450	Sept. 20	82	1.55	Dec. 30	41	247
Jan. 24, 1952	57	394	Oct. 19	75	1.31	Feb. 3, 1964	52	338
June 26	92	224	Dec. 14	55	38.4	Mar. 9	58	694
July 29	86	126	Jan. 24, 1957	49	86.4	May 18	76	315
Aug. 31	88	15.4	Feb. 21	35	393	June 16	83	180
Oct. 22	60	6.82	June 10	62	3,060	July 27	89	18.2
Nov. 26	55	140	July 12	87	255	Aug. 31	85	25.6
Dec. 2	47	386	Aug. 16	85	804	Oct. 5	72	51.7
Jan. 6, 1953	48	1,030	Oct. 3	76	141	Nov. 17	72	51.7
Feb. 26	55	2,410	Dec. 18	69	1,800	Jan. 21, 1965	64	414
Apr. 10	72	1,560	Feb. 7, 1958	58	2,930	Mar. 3	48	1,480
June 10	82	1,980	June 12	84	298	Apr. 8	73	3,440
Aug. 21	85	57.2	Nov. 13	66	290	May 5	72	454
Sept. 18	80	120	Dec. 17	44	579	June 16	81	2,280
Oct. 19	75	28.9	July 9, 1959	84	796	Aug. 20	84	74.7
Nov. 17	53	123	Dec. 18	56	4,250	Sept. 24	73	252
Nov. 20	59	124	Jan. 29, 1960	43	4,490	Sept. 27	72	359
Jan. 15, 1954	49	714	Apr. 7	63	1,470	Oct. 27	60	155
Feb. 8	52	1,000	May 12	84	785	Dec. 2	49	145
Mar. 22	61	481	June 16	78	598	Jan. 6, 1966	51	1,540
Mar. 31	68	570	July 21	70	286	Feb. 9	50	1,080
Apr. 8	70	601	Oct. 20	71	436	Mar. 16	59	704
May 12	66	3,550	Nov. 16	61	523	Apr. 20	67	350
July 29	85	17.7	Dec. 15	45	10,100	May 3	69	27,800
Aug. 18	85	8.29	Feb. 23, 1961	54	10,500	May 27	74	3,460
Sept. 22	80	1.05	Mar. 24	61	4,510	July 7	84	305
Oct. 12	80	1.69						

NECHES RIVER BASIN

8-0333. Piney Creek near Groveton, Tex.

Location.--Lat 31°08'30", long 95°05'10", at bridge on State Highway 94, 4 miles upstream from Caney Creek, and 6½ miles northeast of Groveton, Trinity County.

Drainage area.--79.0 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 16, 1961	56	0.81	Apr. 22, 1963	71	3.65	Feb. 27, 1965	45	12.7
Dec. 13	45	23.5	May 27	78	.09	Apr. 8	70	6.01
Jan. 19, 1962	43	44.9	Dec. 30	42	.08	June 2	78	6.44
Feb. 15	56	5.46	Feb. 3, 1964	53	.03	June 9	80	.88
Feb. 28	49	10.1	Mar. 3	53	118	Sept. 24	70	6.85
Apr. 2	58	1.55	Mar. 9	58	1.87	Dec. 21	47	86.9
May 9	71	8.82	Apr. 28	65	667	Jan. 31, 1966	40	40.1
Dec. 3	56	.96	Apr. 29	67	255	Mar. 6	30	5.46
Jan. 7, 1963	50	34.4	Apr. 30	65	46.4	May 16	76	4.61
Jan. 11	52	4.38	Apr. 30	66	37.1	June 20	76	.10
Feb. 11	50	.51	May 18	70	1.20	July 25	86	.22
Mar. 18	72	2.16	June 16	75	.37	Aug. 29	84	.31

NECHES RIVER BASIN

8-0335. Neches River near Rockland, Tex.

Location.--Lat $31^{\circ}01'45''$, long $94^{\circ}23'46''$, 2,100 ft upstream from Texas and New Orleans Railroad Co. bridge, 2,200 ft downstream from bridge on U. S. Highway 69, 1 mile north of Rockland, Tyler County, and 3.6 miles downstream from Billams Creek.

Drainage area.--3,637 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Aug. 15, 1950	87	223	Dec. 16, 1954	51	630	Jan. 15, 1960	50	4,330
Oct. 2	78	393	Jan. 20, 1955	48	1,660	May 23	82	482
Dec. 8	49	391	Mar. 9	60	2,190	July 5	82	1,980
Jan. 18, 1951	50	412	Mar. 29	54	1,540	Aug. 29	85	442
Feb. 19	52	1,130	May 20	76	701	Sept. 26	78	185
Apr. 26	72	689	June 17	82	683	Oct. 27	69	793
May 23	79	588	July 23	84	128	Nov. 30	56	3,510
June 25	86	471	Aug. 22	94	97.4	Dec. 2	49	3,180
July 26	90	90.7	Sept. 26	82	74.3	Jan. 9, 1961	50	11,400
Aug. 23	88	28.7	Oct. 24	68	88.0	Feb. 6	54	5,650
Sept. 27	78	226	Nov. 14	78	41.5	Mar. 6	68	7,030
Nov. 6	60	102	Dec. 19	48	165	May 15	76	967
Dec. 12	54	463	Feb. 7, 1956	54	94.9	July 17	82	1,450
Jan. 26, 1952	62	360	Mar. 12	62	422	Aug. 21	85	251
Mar. 18	60	4,120	Apr. 12	59	2,920	Sept. 25	78	499
Apr. 22	69	2,200	July 16	92	32.9	Oct. 20	65	260
June 25	92	323	Aug. 24	89	4.47	Jan. 8, 1962	46	2,020
July 29	86	54	Sept. 10	89	6.22	Feb. 12	59	3,560
Aug. 27	88	27.0	Oct. 3	78	2.33	Mar. 19	59	2,660
Sept. 25	82	11.1	Oct. 18	76	2.17	May 11	72	7,990
Oct. 24	65	9.85	Nov. 19	58	35.9	Oct. 31	65	244
Nov. 10	60	20.8	Dec. 14	56	35.2	Dec. 5	57	693
Nov. 25	57	287	Jan. 21, 1957	53	101	Jan. 10, 1963	51	1,840
Jan. 7, 1953	51	1,400	July 15	92	250	Mar. 21	66	1,050
Apr. 10	76	3,100	Aug. 26	85	176	Dec. 31	42	296
Aug. 25	87	74.4	Oct. 7	75	141	Mar. 11, 1964	54	1,770
Sept. 17	81	134	Jan. 14, 1958	52	6,190	May 20	79	401
Oct. 20	74	34.6	Mar. 3	49	4,200	July 30	88	40.3
Nov. 19	61	163	Apr. 8	65	1,380	Oct. 8	74	50.7
Nov. 23	53	144	May 20	71	9,330	Jan. 27, 1965	53	723
Dec. 29	46	1,100	June 23	80	1,250	Apr. 7	70	3,090
Feb. 15, 1954	60	851	July 28	89	1,220	June 15	81	2,800
Mar. 23	64	454	Sept. 10	81	122	Aug. 18	85	88.0
Apr. 8	74	661	Oct. 20	72	519	Oct. 27	67	221
May 14	66	4,060	Dec. 16	44	714	Jan. 6, 1966	50	2,180
July 29	78	24.5	Jan. 13, 1959	48	594	Feb. 9	50	4,700
Aug. 18	94	17.4	Feb. 16	57	3,540	Mar. 16	63	1,190
Sept. 22	83	5.77	July 8	88	911	May 7	68	26,100
Oct. 13	79	6.53	Sept. 9	82	251	July 5	84	314
Nov. 17	61	1,480	Nov. 19	49	899	Aug. 5	88	176

NECHES RIVER BASIN

8-0339. East Fork Angelina River near Cushing, Tex.

Location.--Lat $31^{\circ}51'36''$, long $94^{\circ}49'23''$, at bridge on Farm Road 225, 0.1 mile downstream from Everett Branch, 0.9 mile upstream from Reagan Branch, 3.5 miles north of Cushing, Rusk County, and 8 miles upstream from Angelina River.

Drainage area.--158 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 28, 1964	50	29.8	Jan. 19, 1965	41	16.3	Sept. 22, 1965	70	134
Feb. 4	50	31.8	Feb. 23	55	54.2	Oct. 26	52	7.09
Mar. 10	54	168	Apr. 5	69	126	Dec. 1	48	12.5
Apr. 26	60	358	May 5	70	14.8	Jan. 4, 1966	46	42.6
May 19	70	14.3	May 11	70	217	Feb. 8	48	57.7
June 17	74	16.2	May 12	68	209	Mar. 15	56	51.6
July 28	82	2.23	May 17	74	459	Apr. 25	67	4,590
Sept. 1	81	2.21	May 18	73	410	Apr. 26	66	3,000
Oct. 6	62	5.14	June 8	74	40.2	July 5	77	16.1
Nov. 11	58	8.05	July 16	76	5.87	Aug. 4	80	8.42
Dec. 15	43	17.0	Aug. 20	84	5.00			

NECHES RIVER BASIN

8-0345. Mud Creek near Jacksonville, Tex.

Location.--Lat 31°58'35", long 95°09'38", at bridge on U. S. Highway 79, 0.6 mile downstream from Caney Creek, 3.9 miles downstream from another Caney Creek, 4 miles downstream from Missouri Pacific Railroad Co. bridge, and 6.9 miles east of Jacksonville, Cherokee County.

Drainage area.--376 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 15, 1949	62	626	Nov. 11, 1954	52	55.0	June 1, 1961	75	54.3
May 25	77	45.6	Dec. 9	51	30.8	July 11	75	99.4
June 28	81	33.0	Dec. 10	47	32.8	Sept. 19	73	175
July 28	80	40.7	Jan. 13, 1955	47	142	Oct. 11	72	47.1
Sept. 10	76	160	Mar. 16	67	177	Nov. 14	59	64.8
Nov. 3	53	74.5	June 8	76	52.8	Dec. 14	44	638
Dec. 28	48	152	July 14	82	2.29	Apr. 3, 1962	55	182
Jan. 25, 1950	65	263	Aug. 10	80	6.80	May 3	72	1,660
Mar. 16	55	258	Sept. 14	79	5.75	June 5	76	98.3
Apr. 10	66	88.0	Oct. 13	69	8.41	Aug. 15	83	18.8
May 25	72	168	Oct. 13	69	8.31	Sept. 18	80	27.3
June 10	77	210	Nov. 9	51	4.18	Oct. 25	63	36.2
July 21	84	29.1	Dec. 14	43	17.6	July 30, 1963	80	25.2
Aug. 23	79	13.2	Jan. 25, 1956	58	68.3	Nov. 13	52	3.15
Oct. 11	66	14.4	Feb. 22	56	197	Jan. 28, 1964	48	35.9
Nov. 10	50	25.7	Apr. 4	67	47.3	Apr. 1	63	59.4
Dec. 7	40	33.3	May 88	75	539	May 5	72	78.0
Jan. 11, 1951	42	40.4	June 13	77	9.59	June 10	81	8.94
Feb. 21	56	470	July 12	80	2.22	Sept. 25	70	4.97
Mar. 15	46	216	Nov. 22	50	1.77	Oct. 28	63	3.04
June 6	73	56.2	Dec. 12	57	3.13	Dec. 3	54	10.9
July 11	84	18.0	Jan. 23, 1957	44	10.1	Jan. 6, 1965	56	61.2
Aug. 8	85	2.66	Feb. 20	51	56.6	Feb. 8	54	72.0
Oct. 18	63	1.55	July 10	85	22.9	Mar. 16	61	100
Nov. 20	42	13.9	Aug. 15	75	11.7	Apr. 22	71	47.9
Dec. 20	46	46.1	Dec. 13	62	264	May 26	72	206
Jan. 23, 1952	57	161	Jan. 23, 1958	47	1,130	June 30	90	34.5
Apr. 16	61	1,370	Mar. 14	68	2.37	Oct. 13	64	2.78
May 16	72	41.2	June 11	82	36.8	Nov. 16	68	7.61
June 18	82	33.9	Nov. 12	58	58.5	Dec. 20	47	47.4
Aug. 12	87	.68	Dec. 16	35	97.0	Jan. 24, 1966	37	40.0
Apr. 22, 1953	62	62.5	Jan. 22, 1959	41	118	Mar. 2	50	132
Oct. 2	73	1.53	Sept. 3	80	30.5	Apr. 6	63	38.7
Oct. 28	58	12.7	Apr. 8, 1960	61	181	Apr. 24	66	5,520
Dec. 18	48	118	Aug. 23	82	80.5	Apr. 25	66	22,700
Apr. 29, 1954	73	26.9	Oct. 19	71	142	July 21	82	4.65
May 14	65	3,140	Nov. 16	63	169	Aug. 24	76	9.54
June 23	78	7.49	Jan. 25, 1961	43	2,130	Sept. 21	70	32.2
Oct. 29	65	151						

NECHES RIVER BASIN

8-0365. Angelina River near Alto, Tex.

Location.--Lat 31°40'10", long 94°57'24", at bridge on State Highway 21, 0.4 mile upstream from Allen Creek, 1.5 miles upstream from Bingham Creek, and 7.5 miles east of Alto, Cherokee County.

Drainage area.--1,276 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 14, 1959	72	206	Apr. 5, 1962	58	745	Sept. 1, 1961	87	10.8
Nov. 18	46	458	May 10	72	2,280	Oct. 6	68	28.4
Apr. 7, 1960	62	729	June 12	80	487	Nov. 10	65	22.5
May 12	80	221	July 17	85	106	Dec. 15	45	111
June 16	77	666	Aug. 21	86	92.3	Jan. 19, 1965	49	191
July 21	68	296	Sept. 25	78	79.6	Feb. 23	57	1,160
Aug. 25	79	222	Oct. 30	62	136	Apr. 6	69	4,190
Oct. 20	70	642	Dec. 4	56	585	May 6	78	100
Nov. 17	65	432	Jan. 8, 1963	50	714	June 8	74	1,290
Dec. 14	45	13,200	Feb. 12	45	331	July 15	90	27.1
Feb. 22, 1961	51	2,360	Mar. 19	69	580	Aug. 19	86	46.4
Mar. 23	61	6,300	Apr. 22	75	183	Sept. 23	70	62.8
Apr. 27	70	669	May 27	78	194	Oct. 25	63	21.6
May 31	75	211	July 2	81	61.2	Dec. 1	54	64.6
July 11	79	612	Dec. 2	52	84.0	Jan. 3, 1966	41	179
Aug. 10	82	153	Dec. 31	40	110	Feb. 7	46	406
Sept. 21	70	1,390	Feb. 4, 1964	52	161	Mar. 14	57	333
Oct. 10	71	210	Mar. 10	58	448	Apr. 18	65	369
Nov. 15	61	519	May 19	79	84.4	May 25	75	3,750
Jan. 25, 1962	43	1,640	June 17	82	53.3	July 6	84	126
Feb. 16	62	895	July 28	89	44.4	Aug. 3	87	22.9
Mar. 20	60	1,360						

NECHES RIVER BASIN

8-0370. Angelina River near Lufkin, Tex.

Location.--Lat 31°27'26", long 94°43'34", at bridge on U. S. Highway 59, 200 ft upstream from Procella Creek, 1.5 miles downstream from Bayou Loco, 1.5 miles upstream from Southern Pacific Lines bridge, and 8 miles north of Lufkin, Angelina County.

Drainage area.--1,600 sq mi.

Water temperature records available.--Once-daily readings: October 1954 to September 1966

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1955	Mean	71	54	51	49	50	62	68	75	77	82	82	79
	Max.-Min.	86 60	61 50	59 44	55 40	62 41	70 49	75 60	79 72	83 72	85 79	84 80	81 75
1956	Mean	69	58	49	47	54	58	64	74	80	84	82	75
	Max.-Min.	81 58	68 48	57 43	55 40	64 42	65 50	72 50	80 68	85 75	86 82	85 75	83 66
1957	Mean	67	56	53	50	56	57	66	74	78	83	82	76
	Max.-Min.	73 60	65 45	63 45	59 41	63 51	64 49	73 56	79 67	82 72	89 78	85 80	83 69
1958	Mean	65	58	52	46	48	55	64	73	80	83	83	78
	Max.-Min.	77 54	67 48	58 39	54 39	58 39	65 49	71 59	79 66	84 75	86 76	86 77	81 72
1959	Mean	66	58	46	47	52	57	63	74	78	82	82	79
	Max.-Min.	72 59	69 48	52 39	58 38	59 44	65 50	71 54	77 70	82 72	84 71	84 79	87 74
1960	Mean	-	53	50	47	46	52	66	72	79	83	83	79
	Max.-Min.	- -	69 45	58 45	67 38	56 38	68 41	72 58	79 64	82 72	86 80	85 79	83 73
1961	Mean	73	64	58	59	67	74	74	81	76	79	80	76
	Max.-Min.	76 67	71 50	67 52	69 54	75 60	82 67	82 70	85 71	87 70	82 75	84 76	82 66
1962	Mean	67	57	44	44	55	64	74	74	78	83	83	78
	Max.-Min.	77 60	71 49	61 42	55 32	62 49	64 42	73 57	79 67	80 70	86 78	85 78	83 72
1963	Mean	72	56	50	43	48	51	70	76	81	83	83	77
	Max.-Min.	79 62	62 52	57 40	57 34	58 43	68 50	79 60	80 68	85 78	86 78	86 77	85 65
1964	Mean	68	59	45	45	47	67	67	74	79	83	82	78
	Max.-Min.	73 63	69 49	54 35	51 35	52 44	63 47	79 57	79 68	84 70	87 72	85 78	84 70
1965	Mean	-	64	59	61	62	67	79	81	84	85	85	78
	Max.-Min.	- -	72 54	68 50	69 55	69 57	87 60	89 68	87 77	86 81	88 75	88 78	84 69
1966	Mean	66	67	61	59	63	72	78	81	85	88	83	77
	Max.-Min.	77 57	71 60	69 54	68 53	69 55	80 64	83 65	85 72	89 79	90 85	89 65	83 70
1955-66	Mean	68	59	52	50	54	60	69	76	80	83	82	78
	Max.-Min.	86 54	72 45	69 35	69 32	69 38	87 41	85 50	87 64	89 70	90 71	89 65	87 65

NECHES RIVER BASIN

8-0380. Attoyac Bayou near Chireno, Tex.

Location.--Lat 31°30'15", long 94°18'15", at bridge on State Highway 21, 2.2 miles upstream from Amaláderos Creek, 2.8 miles east of Chireno, Neçoçochoes County, and 5.4 miles downstream from Arenoso Creek.

Drainage area.--503 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 19, 1949	80	133	Sept. 22, 1954	74	8.24	Jan. 11, 1961	50	3,520
Aug. 19	84	56.6	Oct. 12	77	9.02	May 17	69	205
Oct. 18	67	145	Nov. 18	58	176	June 21	71	591
Nov. 19	52	163	Sept. 25, 1955	82	45.3	Sept. 27	74	100
Feb. 8, 1950	58	521	Oct. 25	59	18.3	Oct. 31	69	78.1
Mar. 17	56	462	Nov. 17	56	27.6	Nov. 27	56	660
Apr. 14	61	223	Nov. 17	58	27.4	Dec. 11	58	7,070
May 26	74	251	Dec. 20	49	47.8	Feb. 14, 1962	60	296
June 13	77	666	Mar. 15, 1956	51	276	Mar. 20	60	332
July 14	76	473	Apr. 10	55	2,040	Apr. 23	68	153
Aug. 22	78	78.6	June 19	77	71.8	May 30	76	146
Oct. 7	67	75.5	July 19	91	6.05	July 4	79	109
Nov. 9	61	85.1	Aug. 24	85	.99	Aug. 7	86	30.0
Dec. 7	49	196	Sept. 11	80	8.22	Oct. 15	77	45.4
Jan. 17, 1951	53	308	Oct. 18	68	2.83	Nov. 19	53	80.0
Feb. 15	49	370	Nov. 20	58	20.2	Dec. 17	48	77.4
Mar. 21	54	245	Dec. 27	47	43.7	Jan. 28, 1963	36	134
Apr. 24	68	142	Jan. 22, 1957	54	33.3	Mar. 4	68	369
May 25	70	53.7	June 18	79	248	Apr. 9	65	1,070
June 27	80	59.2	July 16	82	40.6	Aug. 26	80	11.0
Aug. 21	81	17.6	Dec. 12	44	818	Dec. 11	51	62.7
Nov. 8	49	71.1	Jan. 16, 1958	48	1,140	Jan. 19, 1964	38	93.4
Dec. 13	49	147	Feb. 19	44	590	Feb. 19	50	143
Jan. 24, 1952	53	110	Apr. 10	61	191	Mar. 25	60	472
Apr. 18	62	914	May 22	70	169	May 5	76	300
June 16	82	61.5	June 25	76	695	June 2	72	488
July 22	80	70.8	July 29	86	33.7	July 7	80	13.0
Aug. 28	80	14.0	Sept. 11	77	78.2	Aug. 12	84	4.88
Sept. 23	74	17.8	Dec. 17	41	171	Sept. 16	73	4.56
Oct. 23	51	13.3	Jan. 14, 1959	52	169	Oct. 21	54	8.42
Nov. 24	54	52.4	June 3	78	175	Nov. 24	52	42.9
Jan. 5, 1953	45	151	July 23	81	44.5	Dec. 28	51	43.7
Apr. 9	69	245	Sept. 29	79	46.3	Feb. 2, 1965	48	64.5
Aug. 20	79	51.8	Oct. 29	60	55.5	May 18	76	2,130
Sept. 21	77	38.0	Jan. 11, 1960	50	803	June 23	60	45.2
Oct. 15	67	28.6	Feb. 15	46	230	July 27	63	11.2
Nov. 18	53	60.5	Mar. 16	52	618	Aug. 31	83	24.8
Dec. 30	46	300	Apr. 27	70	496	Oct. 6	72	46.6
Mar. 12, 1954	65	141	May 24	78	71.8	Nov. 10	56	61.8
Apr. 7	72	98.0	July 6	84	58.4	Jan. 19, 1966	58	210
May 11	65	112	Aug. 1	83	38.0	Feb. 16	51	1,570
July 27	88	5.36	Aug. 31	88	301	Mar. 30	55	222
Aug. 19	86	3.08	Oct. 27	66	217	July 14	82	20.3

NECHES RIVER BASIN

8-0385. Angelina River near Zavalla, Tex.

Location.--Lat 31°12'41", long 94°17'40", at abandoned bridge on former State Highway 147, just downstream from Harvey Bayou, 3 miles downstream from Attoyac Bayou and State Highway 147, and 8½ miles northeast of Zavalla, Angelina County.

Drainage area.--2,892 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 23, 1951	79	44.0	May 15, 1954	66	3,900	Dec. 19, 1957	59	2,980
June 25	86	478	June 9	82	614	Jan. 14, 1958	52	5,040
July 26	89	92.9	July 29	80	40.8	Apr. 8	65	1,590
Aug. 22	91	47.7	Aug. 20	90	25.2	June 24	79	2,430
Sept. 26	78	177	Sept. 24	75	21.8	July 30	87	182
Nov. 1	68	102	Oct. 14	81	30.3	Sept. 9	81	358
Dec. 12	52	748	Nov. 17	63	640	Dec. 16	46	845
Jan. 26, 1952	62	456	Dec. 16	46	328	Jan. 14, 1959	48	868
Mar. 18	58	4,530	Jan. 20, 1955	48	1,360	Feb. 16	59	3,500
Mar. 27	62	3,100	Feb. 23	52	2,570	Apr. 2	68	1,170
Apr. 10	64	1,260	Mar. 29	52	2,290	May 13	73	5,440
June 25	84	268	May 18	79	453	July 8	88	536
July 31	83	146	June 15	84	531	Sept. 9	82	296
Aug. 27	87	44.0	July 29	84	740	Nov. 19	47	1,050
Sept. 16	85	30.8	Aug. 24	85	191	Jan. 15, 1960	51	3,610
Nov. 10	57	62.1	Sept. 26	82	94.0	Feb. 18	46	2,840
Nov. 25	57	187	Oct. 24	68	95.8	Mar. 18	46	6,280
Jan. 7, 1953	50	763	Nov. 17	60	79.4	Apr. 25	70	909
Feb. 21	51	3,820	Dec. 20	48	193	May 23	78	470
Mar. 18	65	14,100	Feb. 7, 1956	57	1,400	Aug. 4	66	257
Mar. 25	67	11,200	Mar. 12	60	481	Oct. 24	66	664
Mar. 28	70	8,560	May 16	77	7,980	May 15, 1961	75	1,900
Mar. 30	68	6,930	July 16	92	44.8	July 17	81	1,420
Apr. 4	69	3,540	Aug. 24	86	30.4	Aug. 21	83	302
Apr. 8	70	1,630	Sept. 10	84	46.5	Oct. 22	71	122
July 15	82	341	Oct. 3	79	24.0	Feb. 5, 1964	53	409
Aug. 25	81	174	Oct. 18	72	25.4	Mar. 11	59	1,760
Sept. 14	76	355	Nov. 19	57	72.8	May 20	80	360
Oct. 20	72	73.8	Dec. 14	55	74.4	Oct. 8	67	61.8
Nov. 16	52	199	Jan. 21, 1957	52	108	Nov. 12	68	88.8
Nov. 23	53	221	July 15	89	274	Dec. 17	50	276
Mar. 23, 1954	64	550	Aug. 26	87	143	Jan. 22, 1965	56	274
Apr. 10	72	760	Oct. 8	72	129	Feb. 26	49	1,980

NECHES RIVER BASIN

8-0391. Ayish Bayou near San Augustine, Tex.

Location.--Lat 31°23'46", long 94°09'03", at bridge on State Highway 103, 3.0 miles upstream from Turkey Creek, and 9½ miles south of San Augustine, San Augustine County.

Drainage area.--89.0 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 17, 1959	57	153	Sept. 25, 1961	79	14.6	Mar. 2, 1964	56	505
Feb. 20	48	88.8	Oct. 31	69	4.43	Mar. 4	53	305
Feb. 27	53	61.4	Nov. 27	57	39.0	Mar. 26	61	107
Mar. 26	67	74.2	Dec. 12	53	868	May 6	71	48.6
July 21	82	3.37	Jan. 8, 1962	44	57.5	June 1	69	56.4
Aug. 28	78	22.1	Feb. 12	59	56.2	July 6	84	.48
Oct. 1	78	1.97	Mar. 19	59	46.7	Oct. 21	58	.36
Oct. 30	62	7.76	Apr. 23	69	16.6	Nov. 24	50	3.53
Nov. 30	44	13.4	May 1	68	2,790	Dec. 28	51	4.47
Jan. 11, 1960	50	91.9	May 2	66	985	Feb. 2, 1965	46	6.14
Feb. 15	46	62.9	May 3	64	177	May 18	76	22.2
Mar. 14	52	75.4	May 28	77	4.68	June 25	59	1.18
Apr. 27	70	248	July 5	78	2.24	Oct. 6	64	1.36
May 25	76	9.11	Aug. 8	82	.11	Nov. 10	65	5.81
July 5	82	7.23	Oct. 15	77	1.76	Dec. 14	57	10.8
Aug. 31	86	56.1	Nov. 19	53	7.38	Jan. 20, 1966	57	188
Oct. 3	70	8.75	Jan. 23, 1963	37	28.7	Feb. 9	60	865
Oct. 26	67	12.2	Mar. 4	67	95.0	Feb. 10	59	4,160
Dec. 1	49	46.7	Apr. 10	68	68.2	Feb. 10	58	3,400
Feb. 9, 1961	50	106	Aug. 28	81	1.00	Feb. 16	51	324
May 17	72	26.6	Dec. 12	44	4.19	Mar. 31	57	46.4
July 17	79	19.8	Jan. 15, 1964	35	15.8	June 7	84	5.87
Aug. 21	77	7.12	Feb. 20	44	27.1	July 14	80	.61

NECHES RIVER BASIN

8-0399. Angelina River at Horger, Tex.

Location.--Lat 31°02'08", long 94°07'48", on right bank 0.4 mile downstream from Jordans Creek, 4 miles northeast of the abandoned town of Horger, Jasper County, and 7.6 miles downstream from Sam Rayburn Dam (formerly McJee Bend Dam).

Drainage area.--3,486 sq mi.

Remarks.--Flow regulated by Sam Rayburn Reservoir since 1965. Intermittent daily records at Sam Rayburn Dam for the period October 1963 to September 1966 are on file in the district office at Austin.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 13, 1949	76	1,720	Aug. 22, 1951	89	65.3	Dec. 22, 1960	45	17,300
June 20	83	1,150	Sept. 26	79	238	Jan. 23, 1961	46	14,100
July 20	90	571	Nov. 6	57	176	Feb. 9	46	9,410
Aug. 22	86	312	Sept. 16, 1952	83	46.7	Mar. 9	65	8,620
Sept. 26	79	418	Oct. 21	63	40.4	Apr. 14	60	9,400
Oct. 25	68	3,050	Nov. 10	57	89.1	May 19	74	7,080
Dec. 1	60	628	Apr. 11, 1958	66	6,900	Sept. 28	79	6,830
Jan. 14, 1950	61	13,300	May 16	76	14,500	Dec. 1	52	6,210
Feb. 27	60	16,000	May 26	72	5,130	Jan. 18, 1962	43	6,850
Apr. 5	61	1,730	June 27	81	7,730	Apr. 26	71	3,600
May 8	75	9,970	July 9	85	5,860	Dec. 6	56	562
May 11	75	6,550	Dec. 19	50	3,600	Jan. 10, 1963	53	2,480
June 12	78	13,300	Jan. 26, 1959	52	6,220	Feb. 14	47	1,920
July 10	83	801	Feb. 16	58	9,500	Apr. 24	76	634
July 24	85	1,230	Feb. 26	55	7,030	Mar. 3	59	6,600
Aug. 17	88	347	Mar. 9	57	7,100	Mar. 3	59	6,940
Oct. 2	78	694	Apr. 15	64	7,490	Mar. 3	59	7,500
Nov. 15	60	349	June 15	82	5,600	Mar. 4	59	7,590
Dec. 8	49	1,240	Aug. 11	83	7,780	Mar. 5	61	6,320
Jan. 15, 1951	52	1,580	Jan. 20, 1960	46	6,960	Mar. 9	62	3,620
Feb. 19	50	2,740	Feb. 18	50	7,800	May 3	80	1,120
Mar. 29	62	9,040	Mar. 17	50	10,400	Aug. 11	84	431
Apr. 3	62	7,190	Apr. 29	71	6,560	Aug. 17	83	478
July 26	88	125						

NECHES RIVER BASIN

8-0405. Neches River at Town Bluff, Tex.

Location.--Lat 30°47'36", long 94°10'28", 2,000 ft downstream from Dam B, half a mile northeast of Town Bluff, Tyler County, 2.5 miles upstream from Walnut Run, and 8 miles downstream from Wolf Creek.

Drainage area.--7,573 sq mi.

Remarks.--Flow regulated by Sam Rayburn Reservoir since 1965 and by Dam B since 1951.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 16, 1951	59	3,000	Aug. 2, 1954	82	256	Oct. 20, 1959	70	802
Mar. 23	61	2,730	Aug. 5	88	34.0	Dec. 3	51	1,350
Mar. 28	60	7,190	Aug. 26	85	215	Jan. 14, 1960	50	8,580
Mar. 28	61	8,850	Sept. 1	86	143	Feb. 18	50	10,200
Mar. 29	60	12,500	Sept. 24	79	149	Feb. 29	50	21,100
Mar. 30	61	14,000	Oct. 29	63	8.57	Mar. 18	50	15,000
Apr. 2	62	14,100	Nov. 15	60	111	May 26	60	2,120
Apr. 3	62	12,800	Nov. 16	60	111	July 8	60	1,720
Apr. 5	63	9,050	Dec. 17	49	399	Aug. 25	67	107
Apr. 6	62	7,770	Jan. 21, 1955	52	5,070	Apr. 13, 1961	60	17,700
Apr. 27	73	1,450	Feb. 22	52	5,600	Aug. 24	85	771
May 22	77	1,560	Mar. 30	52	2,690	Sept. 28	80	2,090
May 23	79	1,270	Apr. 14	68	20,000	Oct. 24	68	862
June 28	86	1,590	May 19	76	1,280	Dec. 1	53	2,010
July 26	87	687	June 13	81	1,400	Mar. 13, 1962	58	8,030
Aug. 22	88	255	July 20	83	503	Mar. 22	60	6,510
Sept. 28	76	321	July 29	83	270	Apr. 26	70	5,430
Nov. 2	67	267	Aug. 22	88	1,570	July 18	85	844
Dec. 11	57	765	Sept. 19	81	507	Aug. 23	85	780
Feb. 21, 1952	58	3,540	Oct. 27	68	434	Dec. 6	56	1,290
Apr. 9	65	3,460	Nov. 29	56	380	Jan. 11, 1963	52	6,470
July 9	94	1,280	Jan. 4, 1956	58	342	Apr. 24	75	1,350
Sept. 3	83	486	Mar. 21	59	1,350	Dec. 3	55	331
Sept. 5	80	428	Apr. 12	65	5,860	Jan. 2, 1964	46	1,450
Sept. 15	85	173	June 22	81	421	Feb. 6	53	2,610
Nov. 11	61	42.1	July 25	91	910	Mar. 4	61	15,600
Jan. 8, 1953	52	2,270	Aug. 25	84	373	Mar. 12	59	5,320
Feb. 25	48	15,100	Sept. 11	83	296	May 21	77	1,100
Mar. 18	66	19,800	Sept. 11	83	293	June 17	81	839
Mar. 21	72	21,500	Sept. 12	81	130	July 31	86	98.6
Mar. 27	69	22,400	Nov. 7	69	10.5	Sept. 17	61	98.0
May 21	73	90,300	Dec. 1	51	48.5	Sept. 21	83	27.5
Aug. 17	86	1,380	Jan. 24, 1957	51	164	Oct. 8	70	86.4
Aug. 18	87	432	Apr. 23	72	2,980	Nov. 13	69	93.7
Aug. 18	86	442	June 20	81	13,000	Dec. 17	60	42.5
Aug. 18	88	3,590	Dec. 20	57	7,030	Jan. 28, 1965	56	753
Sept. 29	80	807	Mar. 27, 1958	68	6,030	May 4	76	2,200
Oct. 21	74	350	Apr. 3	68	4,930	June 15	80	2,190
Nov. 13	58	352	May 13	76	18,400	July 12	89	1,220
Dec. 15	50	391	July 9	84	1,820	Aug. 17	88	488
Jan. 19, 1954	53	3,430	Aug. 13	86	1,390	Sept. 21	84	310
Feb. 17	62	1,620	Nov. 5	62	2,010	Oct. 4	81	233
Mar. 4	55	148	Dec. 15	45	707	Nov. 8	72	81.1
Apr. 12	77	6,280	Jan. 13, 1959	52	1,850	Jan. 20, 1966	54	1,920
May 6	71	12,100	Mar. 9	60	6,620	Feb. 17	54	10,300
June 8	81	1,750	June 16	82	4,710	Apr. 4	57	1,630
July 30	80	287	July 21	88	1,350			

NECHES RIVER BASIN

B-0410. Neches River at Evadale, Tex.

Location.--Lat 30°21'22", long 94°05'36", at bridge on U.S. Highway 96 at Evadale, Jasper County, 0.8 miles upstream from Mill Creek and 16 miles upstream from Village Creek.

Drainage area.--7,951 sq mi.

Water temperature records available.--Once-daily readings from October 1947 to September 1966. Thermograph record from August 1954 to November 1963.

Remarks.--Some regulation by Dam B Reservoir since 1951 and Sam Rayburn Reservoir since 1965.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1948	Mean	75	61	52	48	51	60	70	76	82	84	85	77
	Max.-Min.	76 73	71 55	63 45	59 37	61 40	69 46	75 63	79 70	86 70	86 83	86 79	82 69
1949	Mean	67	61	57	54	56	61	65	77	82	84	84	81
	Max.-Min.	74 60	70 53	68 47	63 37	68 38	67 55	72 60	82 72	85 78	88 81	87 81	85 73
1950	Mean	72	59	56	60	60	60	66	74	78	82	84	81
	Max.-Min.	76 65	69 51	63 50	68 50	68 55	67 54	70 62	79 72	83 72	85 78	87 81	87 78
1951	Mean	73	61	53	51	53	63	66	76	83	86	86	79
	Max.-Min.	80 69	73 50	60 40	58 41	67 39	70 57	75 60	81 70	86 78	88 82	92 83	86 73
1952	Mean	72	60	57	61	58	60	65	73	82	85	85	78
	Max.-Min.	80 64	70 49	70 50	68 55	63 52	69 51	70 62	76 69	87 72	93 81	88 81	85 70
1953	Mean	64	60	53	54	57	64	70	72	84	84	84	79
	Max.-Min.	74 55	73 51	59 49	59 50	67 51	70 58	79 66	78 68	94 79	87 81	89 79	83 75
1954	Mean	72	58	51	51	58	59	64	71	82	85	84	80
	Max.-Min.	80 62	65 53	62 45	57 43	63 54	71 50	76 64	86 76	87 76	88 80	87 79	84 74
1955	Mean	73	58	56	54	54	66	68	80	82	85	86	83
	Max.-Min.	82 48	64 53	65 49	60 49	60 49	73 56	78 59	82 77	88 77	90 82	89 81	86 80
1956	Mean	72	60	53	51	54	63	69	80	85	87	86	74
	Max.-Min.	85 60	69 50	62 44	60 45	66 45	68 58	79 63	83 73	90 81	91 82	92 79	80 54
1957	Mean	72	63	59	56	63	60	68	74	80	85	87	80
	Max.-Min.	83 62	73 45	69 48	66 40	78 52	65 55	76 60	81 68	84 77	93 81	90 83	88 69
1958	Mean	70	60	54	48	50	62	68	73	84	86	86	79
	Max.-Min.	77 57	66 53	58 47	56 44	57 45	65 52	75 64	82 64	88 78	89 82	89 78	84 76
1959	Mean	72	66	52	50	54	58	66	76	82	84	84	82
	Max.-Min.	76 66	72 56	58 47	56 46	60 48	66 51	72 61	82 72	86 78	88 77	87 79	86 78
1960	Mean	74	58	54	48	48	52	68	74	83	86	85	83
	Max.-Min.	84 55	70 50	59 50	52 45	56 45	64 44	75 61	81 68	87 78	91 81	90 80	89 73
1961	Mean	72	62	52	48	54	64	64	76	79	80	82	77
	Max.-Min.	82 56	66 58	58 46	52 44	60 45	68 57	74 59	81 71	84 72	82 76	84 77	85 67
1962	Mean	72	62	56	45	58	58	67	74	80	86	85	81
	Max.-Min.	81 66	74 58	61 45	53 39	65 51	64 52	72 60	82 67	86 72	90 81	90 79	88 73
1963	Mean	74	56	50	45	46	60	71	78	83	86	88	80
	Max.-Min.	82 62	62 53	57 45	52 37	51 42	67 50	78 60	82 74	89 79	92 80	93 80	91 68
1964	Mean	74	61	47	48	50	59	69	76	83	85	85	80
	Max.-Min.	78 69	74 50	58 39	61 39	56 45	65 51	77 62	80 69	87 80	88 79	88 82	85 70
1965	Mean	68	64	55	56	54	56	72	77	82	86	85	82
	Max.-Min.	76 60	73 51	64 47	65 48	62 49	62 49	76 62	82 70	85 79	89 85	87 82	86 73
1966	Mean	70	66	56	50	52	60	69	75	82	87	85	81
	Max.-Min.	78 61	72 54	64 50	62 40	58 42	67 52	77 63	80 70	85 77	89 83	88 80	86 77
1948-66	Mean	71	61	54	52	54	60	68	75	82	85	85	80
	Max.-Min.	85 48	74 45	70 39	68 37	78 38	73 44	79 59	86 64	94 70	93 76	93 77	91 54

NECHES RIVER BASIN

8-C415. Village Creek near Kountze, Tex.

Location.--Lat 30°23'43", long 94°15'45", 2,000 ft downstream from bridge on Farm Road 418, 1.2 miles upstream from Gulf, Colorado and Santa Fe Railway Co. bridge, 2.7 miles upstream from Cypress Creek, and 3.2 miles northeast of Kountze, Hardin County, and 4½ miles downstream from Beect Creek.

Drainage area.--861 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 8, 1949	53	1,020	May 4, 1954	66	2,570	Aug. 29, 1960	77	164
Mar. 15	63	2,090	May 24	75	157	Sept. 27	74	105
Mar. 21	62	1,070	June 24	87	97.3	Oct. 25	68	228
Apr. 19	65	455	July 26	89	51.3	Nov. 28	67	1,680
May 18	77	219	Aug. 23	82	62.2	Jan. 10, 1961	46	10,700
July 20	83	193	Sept. 23	78	45.2	Mar. 8	67	1,520
Aug. 25	78	90.4	Oct. 25	68	218	Apr. 11	58	918
Oct. 27	64	2,300	Nov. 24	57	124	May 16	78	178
Nov. 29	64	288	Jan. 27, 1955	50	315	Aug. 22	80	350
Jan. 12, 1950	61	4,270	Mar. 7	64	338	Sept. 26	75	448
Feb. 22	59	2,020	Mar. 30	59	145	Oct. 26	68	171
Mar. 28	63	956	Apr. 14	55	7,780	Jan. 15, 1962	42	707
May 9	75	742	Apr. 27	73	346	Feb. 12	50	427
June 12	74	2,980	June 23	80	77.2	Apr. 24	70	185
June 19	76	813	July 26	81	157	May 29	78	143
July 10	78	390	Aug. 26	83	61.7	July 10	82	148
Aug. 7	82	194	Sept. 30	82	115	Sept. 11	80	169
Sept. 11	78	198	Oct. 28	68	56.2	Oct. 17	76	75.8
Oct. 17	69	116	Nov. 28	54	153	Nov. 19	56	91.0
Nov. 14	55	135	Jan. 3, 1956	57	90.9	Dec. 20	53	160
Dec. 12	49	155	Feb. 27	66	374	Jan. 29, 1963	38	387
Jan. 17, 1951	54	440	Apr. 20	71	196	Mar. 7	58	586
Feb. 13	60	320	May 23	82	69.6	Apr. 9	67	718
Mar. 19	59	204	July 4	84	41.3	May 13	79	81.4
Apr. 17	66	332	July 25	84	61.9	June 17	80	52.8
May 16	73	187	Sept. 13	85	25.1	July 22	86	79.2
June 25	84	86.7	Sept. 13	85	25.8	Aug. 19	80	52.4
July 25	85	62.9	Oct. 2	81	16.2	Dec. 3	53	352
Aug. 20	84	45.0	Nov. 7	69	45.2	Feb. 12, 1964	52	556
Oct. 17	64	91.2	Dec. 27	51	373	Mar. 19	66	778
Oct. 31	75	102	Jan. 29, 1957	60	148	Apr. 29	67	1,620
Dec. 10	58	1,000	June 20	82	267	May 25	77	186
Dec. 11	53	800	July 24	78	215	July 3	78	81.8
Jan. 17, 1952	64	168	Oct. 3	78	220	Aug. 6	86	67.6
Mar. 27	58	392	Feb. 15, 1958	43	1,350	Sept. 9	81	73.5
July 10	82	129	Mar. 26	68	627	Nov. 18	71	74.1
Aug. 7	84	103	May 14	76	227	Dec. 18	49	245
Sept. 4	76	47.4	June 13	85	90.6	Jan. 28, 1965	53	237
Nov. 10	60	70.0	July 11	63	145	Mar. 4	50	1,140
Dec. 11	52	264	Nov. 19	63	308	May 11	77	75.5
Jan. 9, 1953	55	295	Dec. 29	53	167	June 15	84	81.6
Apr. 21	63	154	Jan. 29, 1959	54	138	July 20	84	64.1
June 21	88	163	May 20	75	188	Aug. 25	89	48.9
July 14	81	179	June 19	86	120	Sept. 28	74	96.5
Aug. 26	82	133	Aug. 5	80	735	Dec. 7	52	366
Sept. 22	79	109	Oct. 28	64	117	Feb. 11, 1966	62	14,900
Sept. 28	78	89.6	Oct. 1	50	150	Feb. 15	55	7,980
Oct. 15	73	74.0	Jan. 13, 1960	61	774	Mar. 23	68	390
Oct. 30	62	227	Jan. 14	60	759	Apr. 29	71	2,460
Nov. 24	56	236	Apr. 25	66	139	June 2	72	353
Dec. 29	49	887	May 24	72	124	July 5	80	113
Jan. 25, 1954	45	594	July 6	64	262	Aug. 17	82	204
Mar. 26	67	210	Aug. 2	73	84.9	Sept. 15	81	98.2
Apr. 24	73	269						

TRINITY RIVER BASIN

8-0427. North Creek near Jacksboro, Tex.

Location.--Lat 33°16'55", long 98°17'55", at bridge on U. S. Highway 281, 1.5 miles upstream from Henderson Creek, and 9.3 miles northwest of Jacksboro, Jack County.

Drainage area.--21.6 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 15, 1956	69	23.7	Oct. 4, 1959	63	117	June 12, 1962	77	10.2
May 2, 1957	66	12.0	Oct. 7	71	.63	July 16	71	40.4
Nov. 7	56	150	Jan. 5, 1960	38	14.7	Sept. 13	76	.06
Nov. 8	54	3.90	Jan. 5	38	41.5	Nov. 29	56	.62
Nov. 27	49	.62	Feb. 9	50	.10	Jan. 4, 1963	48	.09
Dec. 3	50	.10	Apr. 19	62	.01	Feb. 13	44	.04
Jan. 8, 1958	42	.07	July 18, 1961	83	1.49	Apr. 29	68	9.32
Feb. 25	49	.13	July 21	79	.03	Apr. 29	73	4.24
Mar. 27	53	.13	Dec. 7	47	.01	May 1	64	.74
May 2	60	116	Jan. 16, 1962	34	.008	May 8	77	.08
May 15	70	1.10	Feb. 20	47	.006	May 8, 1964	73	.11
June 10	75	.20	Mar. 27	59	.01	Nov. 19	48	46.0
Jan. 13, 1959	50	.01	June 6	82	2.21	May 19, 1965	73	11.7
July 10	86	.003	June 10	77	50.4	Apr. 11, 1966	62	11.2
Oct. 3	66	350						

TRINITY RIVER BASIN

8-0428. West Fork Trinity River near Jacksboro, Tex.

Location.--Lat 33°17'30", long 98°04'40", at bridge on State Highway 24, 4 miles downstream from North Creek, 7 miles upstream from Carroll Creek, and 7 miles northeast of Jacksboro, Jack County.

Drainage area.--683 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
May 3, 1956	67	777	Sept. 9, 1959	85	10.9	June 13, 1962	79	1,740
May 4	66	714	Oct. 3	66	1,250	July 12	85	.10
May 4	64	570	Oct. 4	65	5,040	Aug. 15	94	.05
May 5	70	526	Oct. 7	70	1,820	Sept. 13	75	110
May 7	80	16.4	Nov. 3	70	.21	Jan. 4, 1963	47	3.43
May 24	74	937	Jan. 5, 1960	36	80.5	Feb. 13	55	.84
May 25	79	433	Feb. 9	50	28.3	Apr. 10	81	.64
May 26	77	113	Mar. 15	48	.07	May 9	73	83.9
June 4	73	1,660	Apr. 19	60	1.47	Sept. 9	82	.08
June 6	78	917	May 24	81	1.21	Dec. 19	38	2.69
June 8	89	10.5	June 17	78	16.1	Feb. 18, 1964	51	.68
June 9	89	9.12	July 26	90	.46	Mar. 16	58	3.04
July 25	84	4.28	Oct. 4	74	5.64	May 14	73	20.5
Dec. 27	43	6.74	Dec. 20	40	2.72	June 9	81	28.0
Jan. 23, 1957	40	.78	Mar. 21, 1961	51	36.9	Sept. 22	76	3.30
May 2	66	3,140	Mar. 21	51	167	Dec. 21	48	.38
Sept. 11	78	.33	Mar. 23	55	21.8	Jan. 14, 1965	45	.22
Oct. 25	45	3.57	May 7	71	40.4	Feb. 16	43	7.31
Dec. 3	48	2.63	June 15	80	1.14	Mar. 17	62	.07
Jan. 8, 1958	38	.70	July 21	76	12.0	June 17	78	48.7
Feb. 25	49	.42	Aug. 25	77	5.84	Mar. 16, 1966	63	47.3
Mar. 27	54	5.04	Sept. 28	80	1.46	Apr. 11	53	784
May 14	73	39.3	Nov. 2	64	.22	Apr. 11	58	798
June 10	74	.14	Nov. 27	53	44.4	Apr. 11	61	593
July 21	76	.51	Dec. 7	49	1.11	Apr. 12	64	438
Sept. 24	80	5.89	Jan. 16, 1962	49	.01	Apr. 12	61	532
Mar. 24, 1959	54	.07	Mar. 27	62	3.24	May 11	72	28.8
Apr. 28	56	1.00	May 1	72	63.8	Sept. 1	78	655
June 8	73	.12	June 12	79	2,620	Sept. 29	71	5.33
July 10	84	2.14						

TRINITY RIVER BASIN

8-0440. Big Sandy Creek near Bridgeport, Tex.

Location.--Lat 33°13'54", long 97°41'40", at bridge on State Highway 24, 1.9 miles upstream from Greathouse Branch and 4.0 miles east of Bridgeport, Wise County.

Drainage area.--333 sq mi.

Remarks.--Some regulation by Amon Carter Reservoir since 1956.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 24, 1949	65	8.60	Nov. 27, 1957	51	26.5	June 7, 1962	80	13.3
May 24	82	276	Jan. 9, 1958	38	8.10	July 12	84	2.55
Sept. 21	75	8.12	Feb. 26	47	11.6	Aug. 17	95	.01
Nov. 9	61	16.8	Mar. 27	52	17.4	Sept. 13	72	146
Dec. 12	51	12.7	May 6	71	340	Oct. 25	61	10.6
Jan. 16, 1950	51	25.3	May 15	73	48.9	Nov. 30	59	824
Feb. 20	58	23.5	June 10	72	4.61	Jan. 5, 1963	49	25.8
Mar. 20	58	10.1	Jan. 12, 1959	52	.33	Feb. 13	43	18.4
June 14	80	164	Feb. 18	42	.72	Mar. 22	56	8.73
Aug. 9	84	24.3	Mar. 23	52	.48	Apr. 25	75	3.16
Sept. 12	72	96.3	Apr. 27	60	.02	May 31	76	39.0
Oct. 12	70	15.0	June 23	75	10,700	July 9	83	.96
Oct. 31	70	7.55	June 24	76	2,820	Aug. 6	88	.24
Nov. 15	60	7.99	July 7	79	11.0	Nov. 26	50	3.50
Dec. 14	45	8.25	Aug. 4	83	4.45	Jan. 7, 1964	38	4.65
Jan. 17, 1951	49	8.20	Sept. 8	84	1.29	Feb. 3	54	18.7
Feb. 21	52	33.0	Oct. 3	67	1,540	Feb. 3	54	18.7
Mar. 21	57	7.92	Oct. 7	69	1,740	Mar. 12	54	11.1
Apr. 25	70	6.57	Nov. 2	66	17.0	Apr. 13	70	6.67
June 18	80	121	Dec. 3	55	9.61	May 15	72	13.0
July 11	82	11.8	Jan. 4, 1960	42	27.8	June 1	77	56.6
Jan. 15, 1952	59	.39	Feb. 8	50	81.0	June 1	58	3.31
Feb. 19	51	.97	Mar. 14	45	18.0	Oct. 21	39	16.7
Mar. 18	55	43.2	Apr. 18	68	14.4	Dec. 6	45	12.3
Apr. 18	66	1.71	May 23	79	14.8	Jan. 11, 1965	51	12.9
May 21	69	6.62	Nov. 15	67	2.65	Mar. 13	74	8.90
May 12, 1953	67	21.8	Dec. 19	43	12.4	Apr. 21	74	42.5
Dec. 18	44	.37	Jan. 24, 1961	43	18.9	May 22	74	6.91
Feb. 5, 1954	51	1.65	Mar. 9	53	10.6	June 29	84	4.66
May 11	57	16.1	Mar. 20	48	84.5	Aug. 30	83	.46
June 2	76	46.8	Apr. 21	72	12.7	Oct. 4	61	7.92
May 12, 1955	74	1.05	May 29	75	9.85	Nov. 8	54	6.19
May 27	76	9.92	June 8	80	7.25	Dec. 13	41	2.54
May 3, 1956	64	268	July 19	80	1.05	Jan. 18, 1966	57	857
May 4	68	53.8	July 21	84	.43	Feb. 10	45	10.9
May 7	82	1.68	Dec. 8	47	10.2	Feb. 21	59	57.0
Apr. 16	64	1.35	Jan. 15, 1962	40	6.47	Mar. 28	78	67.1
May 26, 1957	75	4,200	Feb. 19	54	2.87	May 9	79	8.23
Oct. 15	65	35.3	Mar. 27	65	3.10	June 7	76	21.4
Oct. 16	70	9.79				Sept. 26		

TRINITY RIVER BASIN

8-0445. West Fork Trinity River near Boyd, Tex.

Location.--Lat 33°05'08", long 97°33'30", at bridge on Farm Road 730, 0.6 mile northeast of Boyd, Wise County, and 3.5 miles downstream from Boggy Creek.

Drainage area.--1,725 sq mi.

Remarks.--Flow largely regulated by Bridgeport Reservoir since 1932 and Amon Carter Reservoir since May 1956.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 12, 1949	52	17.4	Dec. 8, 1954	50	216	May 29, 1961	73	23.9
Jan. 16, 1950	52	47.0	May 12, 1955	73	197	June 15	77	319
Feb. 20	53	30.5	May 19	69	729	July 18	89	12.4
Mar. 20	58	5.63	May 27	78	53.0	July 21	88	37.4
June 14	81	2,000	July 19	82	415	Aug. 28	79	116
June 22	83	170	Sept. 14	78	203	Sept. 29	75	.27
July 12	78	874	Nov. 28	47	214	Dec. 8	47	17.2
July 27	72	3,650	Feb. 6, 1956	40	.30	Jan. 15, 1962	36	4.43
July 31	86	1,300	June 6	89	.24	Feb. 19	46	184
Aug. 9	80	908	July 25	82	190	Mar. 26	68	6.51
Sept. 12	76	1,060	Oct. 3	74	4.66	Apr. 30	74	151
Oct. 31	65	1,150	Dec. 27	44	1.82	June 7	79	224
Nov. 15	60	301	Apr. 17, 1957	52	1.28	July 12	89	30.0
Nov. 30	48	20.0	Apr. 27	65	2,640	Oct. 25	62	19.4
Dec. 14	46	377	Apr. 29	66	4,780	Jan. 7, 1963	47	44.8
Jan. 17, 1951	47	19.2	May 25	70	20,300	Feb. 15	44	23.8
Feb. 21	54	34.0	May 26	70	16,900	Mar. 22	57	15.4
Mar. 21	56	13.6	May 26	73	13,200	Apr. 25	76	7.32
Apr. 25	72	14.4	Sept. 12	76	5.94	June 5	76	107
May 7	66	314	Dec. 4	48	268	July 9	90	16.7
June 7	76	1,010	Jan. 9, 1958	46	107	Sept. 9	86	19.0
July 11	84	327	Feb. 27	49	92.9	Nov. 26	56	7.78
Aug. 13	88	632	Mar. 28	50	164	Jan. 6, 1964	50	121
Sept. 14	82	.17	May 15	71	593	Feb. 3	50	33.2
Oct. 16	68	18.4	June 9	73	220	Mar. 12	58	16.5
Nov. 16	54	766	July 20	81	85.3	Apr. 13	66	123
Dec. 13	49	1.37	Aug. 17	87	26.8	May 15	72	17.6
Jan. 15, 1952	60	1.74	Sept. 23	83	6.26	June 5	77	26.2
Feb. 19	56	2.32	Oct. 9	71	278	June 5	77	25.1
Mar. 18	61	5.91	Oct. 29	62	.91	July 8	79	491
Apr. 18	63	45.3	Dec. 8	39	3.28	Aug. 11	84	160
May 21	71	26.2	Jan. 12, 1959	54	5.41	Sept. 15	76	.74
May 20	80	280	Feb. 20	44	2.81	Sept. 15	76	.60
Sept. 23	69	.63	Mar. 23	50	1.94	Oct. 22	58	3.05
Oct. 30	56	122	Apr. 27	54	1.31	Dec. 6	42	29.2
Oct. 31	59	17.4	June 5	69	713	Jan. 8, 1965	47	23.7
Nov. 4	56	.20	June 23	76	1,080	Jan. 11	48	18.8
Jan. 5, 1953	49	1.32	June 24	76	2,580	Mar. 13	52	25.6
Mar. 24	67	3.20	July 9	82	12.7	Apr. 21	74	17.7
May 26	90	.92	Aug. 4	85	6.13	May 22	78	123
Nov. 10	52	1.76	Sept. 8	82	6.14	June 29	86	40.4
Dec. 17	44	.88	Oct. 8	70	2,520	Aug. 30	79	258
Feb. 9, 1954	50	2.75	Nov. 2	67	327	Oct. 4	62	6.06
Apr. 22	75	.28	Dec. 7	44	24.6	Nov. 8	60	14.0
June 2	80	21.5	Jan. 4, 1960	41	70.9	Dec. 13	53	15.0
June 29	91	7.79	Feb. 8	48	509	Jan. 18, 1966	41	7.01
June 30	83	230	Mar. 14	46	98.4	Feb. 21	50	20.8
July 6	84	277	Apr. 18	68	37.5	Mar. 28	61	52.2
July 7	83	37.5	May 23	78	39.4	May 9	73	1,660
July 8	87	7.11	Aug. 29	84	1.24	May 11	68	1,080
July 20	84	231	Dec. 19	43	17.1	June 6	78	364
July 28	84	53.1	Jan. 24, 1961	43	27.4	Aug. 3	83	43.8
July 29	88	31.0	Mar. 8	61	18.8	Aug. 22	84	19.2
July 29	90	6.01	Mar. 23	60	105	Sept. 26	76	244
Nov. 17	57	5.13	Apr. 21	72	38.7			

TRINITY RIVER BASIN

8-0460. Clear Fork Trinity River near Aledo, Tex.

Location.--Lat 32°38'25", long 97°33'50", 3 miles downstream from Turkey Creek, 3 1/2 miles upstream from bridge on U. S. Highway 377, 4 miles southeast of Aledo, Parker County, and 11.8 miles upstream from Benbrook Dam.

Drainage area.--251 sq mi.

Remarks.--Some regulation by Lake Weatherford since 1957.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 6, 1950	59	34.7	May 21, 1954	76	2.31	Oct. 30, 1961	73	0.87
Apr. 6	58	18.7	Mar. 21, 1955	57	.95	Dec. 8	49	3.80
May 9	73	84.1	June 3	78	.61	Jan. 25, 1962	40	4.29
June 5	68	47.3	July 22	83	10.9	Mar. 5	47	4.25
July 7	79	32.7	Feb. 17, 1956	57	11.5	Apr. 10	63	5.77
July 21	81	14.8	Apr. 2	71	1.06	May 22	75	.36
Sept. 6	72	95.1	May 18	73	1.62	Aug. 17	79	32.3
Oct. 9	63	25.7	Apr. 17, 1957	64	1.22	Sept. 13	78	172
Oct. 31	70	15.4	Sept. 16	78	.25	Oct. 15	77	18.8
Nov. 14	51	17.7	Oct. 15	64	20.1	Nov. 13	54	9.62
Dec. 4	48	18.2	Nov. 18	54	9.37	Dec. 17	46	14.0
Jan. 5, 1951	48	19.5	Jan. 30, 1958	48	15.2	Jan. 28, 1963	33	7.25
Feb. 7	40	25.6	Mar. 18	45	20.2	Mar. 11	57	18.8
Mar. 5	55	22.1	Apr. 9	61	35.6	Apr. 15	74	6.62
Apr. 2	60	16.0	May 12	73	132	May 20	73	9.48
Apr. 27	71	18.0	June 16	81	8.59	July 8	90	.74
May 28	74	16.7	July 23	79	5.08	Dec. 5	45	.76
June 25	82	13.8	Aug. 26	79	4.28	Jan. 6, 1964	43	1.59
July 3	78	359	Sept. 25	81	4.97	Feb. 3	50	5.85
July 3	78	253	Oct. 15	69	1.97	Mar. 11	58	7.60
July 27	84	1.88	Nov. 19	59	1.30	May 25	80	1.13
Nov. 5	52	1.76	Dec. 12	39	5.49	Oct. 12	63	4.45
Dec. 3	61	2.45	Jan. 28, 1959	42	4.97	Dec. 7	41	6.52
Dec. 28	44	2.61	Apr. 7	70	3.21	Jan. 13, 1965	48	6.32
Jan. 28, 1952	52	3.27	May 12	65	6.09	Feb. 9	45	624
Feb. 29	56	4.20	Jan. 4, 1960	46	29.0	Apr. 29	66	14.9
Apr. 3	61	4.23	Feb. 8	47	50.2	June 1	76	39.5
May 6	77	9.67	Mar. 14	45	16.6	July 1	89	5.25
June 4	81	3.27	Apr. 20	66	10.7	Oct. 13	67	2.17
Nov. 10	54	1.96	May 18	76	8.24	Nov. 17	62	3.93
Dec. 18	47	1.18	July 26	82	1.40	Dec. 22	47	7.10
Jan. 29, 1953	48	2.08	Nov. 29	54	1.30	Jan. 27, 1966	41	7.49
Mar. 13	64	5.10	Dec. 21	45	2.41	Feb. 28	54	17.8
Apr. 22	76	1.28	Jan. 4, 1961	41	3.30	Apr. 6	62	7.86
June 1	84	1.25	Mar. 7	64	17.1	Apr. 30	67	3,670
Nov. 19	60	12.4	Apr. 19	67	12.2	June 13	76	134
Dec. 22	44	1.83	May 25	71	2.68	Aug. 2	84	2.71
Jan. 29, 1954	50	6.75	June 19	70	9.17	Sept. 1	79	6.76
Apr. 17	66	2.93	July 19	81	2.85			

TRINITY RIVER BASIN

8-0470. Clear Fork Trinity River near Benbrook, Tex.

Location.--Lat 32°39'54", long 97°26'30", 1½ miles downstream from Benbrook Dam, 1.7 miles southeast of Benbrook, Tarrant County, and 2.9 miles upstream from Marys Creek.

Drainage area.--431 sq mi.

Remarks.--Flow regulated by Benbrook Reservoir since September 1952.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 1, 1949	52	33.8	Apr. 2, 1956	65	155	Jan. 25, 1962	46	0.40
Nov. 28	58	17.1	May 21	82	147	Feb. 16	50	288
Dec. 28	45	18.0	Oct. 4	73	280	Mar. 5	52	.97
Feb. 7, 1950	61	264	Oct. 12	79	215	Mar. 30	57	132
Mar. 6	60	26.0	Mar. 4, 1957	57	1.14	Apr. 10	68	.82
Apr. 6	62	39.8	Apr. 17	72	1.21	May 22	75	1.21
May 9	73	184	May 20	68	681	Aug. 24	83	14.3
June 2	71	92.9	Oct. 15	66	13.2	Sept. 17	78	478
July 6	83	367	Nov. 14	60	2.54	Oct. 15	83	1.42
July 21	84	24.5	Nov. 18	53	3.06	Nov. 13	64	.24
Sept. 6	75	130	Jan. 30, 1958	49	226	Jan. 28, 1963	33	.07
Oct. 9	66	43.2	Feb. 28	46	239	Mar. 11	71	.11
Oct. 31	73	21.5	Apr. 10	57	112	Apr. 4	64	318
Dec. 4	51	21.8	June 16	80	4.09	Apr. 15	78	.08
Jan. 5, 1951	49	21.4	July 23	79	9.42	May 2	70	934
Feb. 7	48	29.6	Aug. 26	77	12.7	May 20	73	19.3
Mar. 5	59	24.2	Sept. 25	84	3.02	July 8	87	2.96
Apr. 2	63	19.0	Oct. 16	67	3.64	July 19	84	289
Apr. 30	71	19.2	Nov. 7	58	177	Aug. 5	88	.32
May 24	71	43.6	Nov. 19	59	1.18	Sept. 19	88	.04
June 25	81	29.4	Dec. 12	50	247	Oct. 29	69	1.89
July 3	77	1,060	Jan. 21, 1959	43	62.2	Dec. 5	55	.36
July 27	86	1.24	Jan. 22	41	59.8	Jan. 6, 1964	49	.43
Nov. 5	56	1.44	Jan. 28	44	51.5	Feb. 3	54	.32
Dec. 3	64	5.95	Apr. 8	65	.04	Mar. 12	54	.59
Dec. 28	45	2.75	July 30	62	211	Apr. 20	70	3.40
Jan. 28, 1952	55	3.42	Aug. 31	84	1.48	May 25	90	.18
Feb. 29	60	5.19	Jan. 4, 1960	54	76.4	June 29	87	5.33
Apr. 3	63	4.52	Feb. 8	46	94.6	Sept. 8	89	.08
May 6	80	12.7	Mar. 14	43	141	Oct. 12	65	.42
June 4	85	15.9	Apr. 20	67	285	Dec. 7	42	.60
July 3	87	1.09	May 4	72	5.53	Jan. 13, 1965	55	3.85
Aug. 4	84	.21	June 16	80	4.72	Jan. 18	54	230
Aug. 4	84	.21	June 24	79	149	Feb. 17	46	1,860
Nov. 25	54	1.61	July 26	94	.95	Mar. 4	49	151
May 12, 1953	66	12.7	Sept. 1	87	.48	Apr. 14	70	2.00
Oct. 2	74	107	Sept. 6	86	.82	Apr. 21	63	27.5
Oct. 5	73	3.13	Oct. 7	75	261	Apr. 22	73	19.4
Mar. 15, 1954	55	53.0	Dec. 21	49	.23	Apr. 23	75	3.40
Mar. 15	55	56.9	Jan. 4, 1961	34	.23	Apr. 29	68	92.4
Mar. 16	46	.82	Jan. 12	45	274	July 1	85	.43
Mar. 16	50	126	Feb. 1	56	.52	Aug. 9	87	.18
Mar. 16	50	110	Mar. 7	54	280	Sept. 10	85	.10
Apr. 30	73	2.28	Apr. 17	60	150	Oct. 13	71	.14
Aug. 13	84	124	May 25	76	.35	Oct. 18	70	17.4
Oct. 4	86	2.90	June 19	81	.28	Nov. 17	67	.12
Feb. 17, 1955	52	.14	Aug. 19	81	281	Dec. 22	55	.32
Mar. 21	50	4.30	Aug. 31	80	.26	Jan. 27, 1966	39	.42
July 18	86	14.0	Sept. 21	74	670	Feb. 28	50	.44
Aug. 1	85	115	Sept. 21	74	1,010	Apr. 6	67	.26
Aug. 29	88	92.1	Sept. 27	76	.48	May 25	73	1,470
Oct. 14	73	168	Nov. 3	66	.15	June 13	73	25.0
Nov. 28	35	.07	Dec. 8	50	.52	Sept. 1	77	.69
Feb. 17, 1956	56	8.98						

TRINITY RIVER BASIN

8-0475. Clear Fork Trinity River at Fort Worth, Tex.

Location.--Lat 32°44'02", long 97°21'33", at bridge on Vickery Boulevard at Fort Worth, Tarrant County, 100 ft upstream from East-West Expressway bridge, 310 ft downstream from the Texas and Pacific Railway Co. bridge, 3 miles upstream from mouth, 5 miles downstream from Marys Creek, and 10 miles downstream from Benbrook Dam.

Drainage area.--518 sq mi.

Water temperature records available.--Thermograph record from November 1947 to November 1962 and October 1964 to August 1963, once daily readings used at times when recorder was inoperative.

Remarks.--Flow regulated by Benbrook Reservoir since September 1952.

Water temperature (°F)

Water Year		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1948	Mean	-	-	48	39	45	54	72	74	81	-	-	-
	Max.-Min.	-	-	60 40	52 32	64 32	65 38	76 67	80 66	88 70	-	-	-
1949	Mean	62	55	50	41	48	58	64	73	79	85	85	80
	Max.-Min.	70 59	60 50	60 40	50 33	60 34	68 48	71 56	79 67	86 76	87 83	89 81	88 68
1950	Mean	69	57	52	51	54	59	65	74	82	83	84	75
	Max.-Min.	78 56	67 54	57 48	62 40	65 40	71 47	72 55	80 67	88 73	88 77	88 74	82 72
1951	Mean	69	56	42	47	48	60	67	75	78	86	89	80
	Max.-Min.	76 66	70 48	58 35	56 40	64 35	67 51	75 61	82 71	86 64	89 78	93 84	88 72
1952	Mean	66	55	49	54	55	58	64	72	86	87	89	82
	Max.-Min.	81 53	65 47	62 41	65 44	62 48	73 50	75 55	82 62	93 77	94 81	97 80	90 75
1953	Mean	-	-	47	48	51	64	70	78	-	-	82	-
	Max.-Min.	-	-	53 42	53 40	57 45	75 54	79 64	93 63	-	-	89 74	-
1954	Mean	-	55	49	48	56	-	72	-	-	-	-	-
	Max.-Min.	-	62 49	58 40	57 40	64 48	-	85 60	-	-	-	-	-
1955	Mean	-	-	-	48	50	60	67	-	-	-	-	-
	Max.-Min.	-	-	-	61 43	59 42	73 46	80 54	-	-	-	-	-
1956	Mean	-	-	-	-	52	58	66	78	-	-	-	-
	Max.-Min.	-	-	-	-	67 37	70 50	76 57	85 67	-	-	-	-
1957	Mean	-	-	-	45	46	51	52	68	78	88	86	-
	Max.-Min.	-	-	-	57 37	67 40	66 50	71 55	78 64	85 70	94 81	94 80	-
1958	Mean	-	55	50	47	46	51	52	68	83	86	86	80
	Max.-Min.	-	64 45	57 41	51 42	59 39	68 44	72 54	77 54	90 74	91 76	92 78	87 72
1959	Mean	68	-	44	-	50	58	66	76	83	84	86	84
	Max.-Min.	76 59	-	52 35	-	63 40	67 49	77 57	86 68	91 74	92 77	91 82	90 76
1960	Mean	70	-	-	52	48	50	70	74	82	84	84	80
	Max.-Min.	78 61	-	-	64 44	57 40	71 40	78 61	81 65	88 74	91 76	91 76	89 70
1961	Mean	69	57	45	44	50	58	64	74	81	84	84	78
	Max.-Min.	77 61	64 50	55 40	51 36	63 39	69 51	75 51	85 67	88 70	91 79	88 77	85 70
1962	Mean	68	55	48	45	54	66	80	84	84	-	84	78
	Max.-Min.	76 63	70 49	59 41	53 39	63 43	67 41	77 53	87 70	91 78	-	91 73	84 70
1963	Mean	69	56	-	-	-	-	-	-	-	-	-	-
	Max.-Min.	78 59	62 49	-	-	-	-	-	-	-	-	-	-
1965	Mean	66	59	47	52	48	52	68	71	-	84	85	-
	Max.-Min.	72 61	69 46	56 40	61 43	56 42	61 42	78 54	76 62	-	88 76	85 76	-
1948-65	Mean	68	56	48	47	51	57	67	74	82	85	85	80
	Max.-Min.	81 53	70 45	62 35	65 32	67 32	75 38	85 51	93 54	93 64	94 76	97 73	90 68

TRINITY RIVER BASIN

8-0480. West Fork Trinity River at Fort Worth, Tex.

Location.--Lat 32°45'40", long 97°19'55", 125 ft upstream from Texas Electric Service Co.'s concrete dam, 980 ft downstream from centerline of Paddock Viaduck (North Main Street) at Fort Worth, Tarrant County, and 2,600 ft downstream from Clear Fork Trinity River.

Drainage area.--2,615 sq mi.

Remarks.--Flow largely regulated by Bridgeport Reservoir since 1932, Eagle Mountain Reservoir since 1934, Benbrook Reservoir since 1952, and Lake Worth.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Sept. 2, 1949	87	278	June 10, 1954	102	3.39	Sept. 27, 1961	80	5.60
Oct. 25	61	2,430	Aug. 26	100	10.0	Oct. 31	74	22.9
Mar. 17, 1950	68	162	Dec. 7	63	3.82	Dec. 12	47	25.1
Apr. 14	58	679	Jan. 15, 1955	59	8.94	Jnn. 26, 1962	44	24.5
June 6	73	218	Jan. 25	60	6.17	Mar. 7	53	14.2
July 12	73	1,310	July 27	92	2.61	Apr. 15	66	17.6
Aug. 7	83	1,740	Sept. 2	94	1.72	May 22	81	8.34
Sept. 13	75	1,270	Oct. 20	77	5.26	June 26	83	26.6
Oct. 9	70	618	Nov. 10	60	1.03	July 25	87	4.99
Nov. 2	72	814	Feb. 17, 1956	62	45.5	Oct. 19	77	46.8
Jan. 15, 1951	63	105	Feb. 20	62	19.6	Nov. 16	59	19.1
Feb. 19	64	113	Apr. 3	78	20.8	Dec. 19	57	139
Mar. 20	58	203	May 6, 1957	66	1,370	Jan. 31, 1963	41	16.2
Apr. 19	76	59.7	May 9	66	3,600	Mar. 19	64	22.6
May 28	83	72.2	Nov. 19	52	1,230	Apr. 16	78	9.91
June 25	87	572	Feb. 5, 1958	49	789	July 1	85	55.0
July 30	108	50.4	Feb. 28	47	284	Aug. 8	96	2.46
Aug. 30	110	39.5	Mar. 19	46	613	Sept. 18	80	10.8
Sept. 28	98	59.6	Aug. 28	80	18.2	Oct. 30	71	4.31
Nov. 5	75	52.8	Sept. 29	78	16.8	Dec. 12	50	21.9
Dec. 6	61	49.0	Oct. 16	72	24.3	Jan. 15, 1964	44	8.14
Jan. 7, 1952	72	49.8	Jan. 17, 1959	43	54.7	Jan. 15	44	8.20
Feb. 7	70	48.8	Jan. 28	46	50.1	Feb. 7	48	21.5
Mar. 6	70	51.3	Apr. 2	50	16.0	Mar. 12	64	23.4
Apr. 8	79	43.6	Apr. 8	64	8.83	May 1	74	16.4
May 12	87	54.4	May 14	72	11.4	May 26	84	6.55
June 10	95	50.9	Sept. 1	82	17.8	June 30	85	5.54
July 15	98	41.1	Oct. 12	71	4,460	Aug. 5	92	1.97
Aug. 11	108	32.7	Nov. 12	58	62.1	Sept. 10	84	4.15
Sept. 8	94	35.1	Feb. 9, 1960	52	1,210	Oct. 14	68	19.6
Oct. 30	72	38.6	Mar. 15	46	197	Nov. 16	70	22.9
Nov. 13	70	34.1	Apr. 18	70	17.3	Jan. 7, 1965	59	29.8
Dec. 2	58	39.1	Apr. 21	67	310	Feb. 5	47	108
Jan. 8, 1953	56	41.6	May 19	80	16.9	Mar. 11	53	132
Feb. 17	80	34.9	June 20	89	10.9	Apr. 15	71	114
Apr. 16	84	26.0	Sept. 7	94	4.20	July 2	83	299
June 8	96	3.70	Oct. 13	80	5.60	Aug. 5	83	8.01
June 11	100	6.86	Dec. 22	68	12.1	Sept. 16	86	1.92
July 1	94	14.6	Feb. 2, 1961	45	27.6	Dec. 2	56	51.7
Aug. 6	103	29.8	Mar. 8	56	239	Jan. 13, 1966	54	14.1
Sept. 29	99	2.82	Apr. 20	70	21.4	Feb. 11	56	42.2
Oct. 21	93	5.21	May 26	75	45.5	Apr. 1	65	19.9
Nov. 20	72	80.7	June 24	77	16.4	July 11	86	15.8
Dec. 22	68	8.58	July 24	84	24.9	Aug. 15	82	47.2
Apr. 23, 1954	87	10.8	Aug. 31	80	10.3			

TRINITY RIVER BASIN

8-0485. Marine Creek at Fort Worth, Tex.

Location.--Lat 32°48'16", long 97°21'48", on left bank at downstream side of bridge on Northwest 33rd Street at Fort Worth, Tarrant County, 1.5 miles upstream from North Main Street bridge, 2.2 miles upstream from St. Louis Southwestern Railway Bridge, and 2.4 miles upstream from mouth.

Drainage area.--16.8 sq mi.

Remarks.--Flow partly regulated after Feb. 7, 1957 by Cement Creek Reservoir.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
July 5, 1950	79	0.62	Jan. 7, 1952	39	0.13	Jan. 19, 1954	60	0.79
July 28	84	2.85	Mar. 6	52	.21	May 20	84	.43
Oct. 9	73	.23	May 7	87	.04	June 24, 1955	91	.28
Nov. 14	61	.03	May 23	66	1.23	Feb. 20, 1956	58	.14
Dec. 11	52	.02	June 9	87	.01	Apr. 18, 1957	75	.79
Jan. 15, 1951	48	.04	Nov. 25	57	1.82	Apr. 19	65	93.7
Feb. 19	63	.09	Jan. 6, 1953	46	.56	Apr. 19	65	36.5
Mar. 20	49	.08	May 28	89	.22	June 10	64	16.4
Apr. 19	71	.08	July 16	72	16.3	Oct. 16	66	.29
May 18	69	7.17	Aug. 18	79	2.11	Aug. 22, 1958	87	.12
May 28	87	.17	Oct. 26	65	22.7	Sept. 25	85	.08
June 25	82	.35	Dec. 8	50	.48	Oct. 9	84	2.39

TRINITY RIVER BASIN

8-0488. Big Fossil Creek at Haltom City, Tex.

Location.--Lat 32°48'26", long 97°14'54", at bridge on State Highways 121 and 183, near east boundary of Haltom City, Tarrant County, 1.5 miles upstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 2.0 miles upstream from Little Fossil Creek, and 3.5 miles upstream from mouth.

Drainage area.--52.8 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Jan. 17, 1959	44	0.23	Oct. 4, 1962	71	2.66	Apr. 15, 1965	75	11.0
Feb. 4	45	.06	Oct. 17	75	1.85	May 10	70	56.8
Apr. 7	65	.002	Dec. 28	46	5.32	May 13	74	37.5
June 26	76	.24	Mar. 19, 1963	69	3.64	May 25	81	13.2
Oct. 1	71	90.2	Apr. 16	71	.35	Aug. 5	78	.28
Oct. 7	72	14.5	May 27	86	.09	Aug. 24	80	1.76
Nov. 13	56	1.83	July 2	78	.01	Sept. 16	74	.03
Feb. 9, 1960	52	12.1	Sept. 18	78	.02	Sept. 22	69	251
Mar. 15	48	5.37	Dec. 11	53	.70	Sept. 22	69	76.0
Apr. 19	65	.96	Jan. 15, 1964	38	.03	Sept. 23	69	11.0
Apr. 25	68	107	Feb. 7	52	.10	Oct. 18	62	21.5
May 17	78	3.15	Mar. 17	68	.09	Oct. 18	62	15.4
June 16	78	.54	May 5	75	1.36	Oct. 18	62	10.7
Dec. 22	45	.02	Aug. 17	76	90.4	Oct. 18	62	9.11
Feb. 3, 1961	51	2.09	Aug. 18	77	8.20	Oct. 19	69	8.02
Mar. 13	61	3.07	Aug. 20	80	.48	Dec. 2	52	1.63
Apr. 17	68	1.97	Sept. 15	73	.02	Jan. 13, 1966	52	.73
May 26	73	.44	Sept. 17	72	12.5	Feb. 1	43	3.38
June 20	79	.28	Sept. 17	74	6.19	Feb. 12	53	9.56
Oct. 31	72	.17	Sept. 18	75	2.24	Apr. 1	64	2.33
Dec. 11	47	26.4	Oct. 21	62	1.54	Apr. 19	73	4.14
Jan. 30, 1962	48	1.77	Nov. 23	52	22.2	Apr. 24	65	232
Mar. 7	53	.69	Jan. 5, 1965	59	9.52	Apr. 24	65	160
Apr. 16	68	1.12	Jan. 23	50	96.0	Apr. 24	64	127
May 25	77	.05	Jan. 25	56	30.2	May 4	62	22.1
Aug. 2	76	1,080	Feb. 4	48	10.8	May 17	78	6.60
Aug. 3	76	297	Apr. 14	75	4.69	July 14	91	.30

TRINITY RIVER BASIN

E-0495. West Fork Trinity River at Grand Prairie, Tex.

Location.--Lat 32°45'46", long 96°59'42", at bridge on Belt Line Road, 1.3 miles northeast of Grand Prairie, Dallas County, 4 miles upstream from Bear Creek, and 7 miles upstream from Mountain Creek.

Drainage area.--3,065 sq mi.

Remarks.--Flow largely regulated by Bridgeport Reservoir since 1932, Eagle Mountain Reservoir since 1934, Benbrook Reservoir since 1952, Lake Worth and Lake Arlington since 1957 with a total combined capacity of 737,400 acre-ft.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 18, 1949	59	125	Apr. 28, 1954	77	62.3	Oct. 21, 1960	66	84.5
Dec. 21	60	120	June 7	82	50.4	Dec. 29	50	136
Feb. 27, 1950	62	355	Aug. 12	85	43.8	Feb. 3, 1961	52	119
Apr. 5	67	259	Sept. 20	85	50.6	Mar. 13	64	316
May 9	75	1,480	Nov. 2	58	52.6	Apr. 20	76	121
June 9	82	304	Dec. 16	50	56.6	May 31	81	77.6
June 9	82	319	Jan. 28, 1955	49	59.4	June 23	84	96.2
July 10	74	1,360	Mar. 15	71	111	July 20	92	95.4
Aug. 10	83	1,440	Apr. 27	74	55.8	Aug. 9	88	78.7
Sept. 14	78	1,240	June 6	82	191	Sept. 1	84	71.5
Oct. 18	74	729	July 19	87	126	Sept. 28	76	69.5
Nov. 17	60	730	Aug. 12	87	228	Nov. 1	73	151
Dec. 8	44	145	Sept. 15	84	56.7	Dec. 12	49	180
Dec. 13	55	242	Oct. 21	69	48.3	Jan. 30, 1962	55	76.3
Jan. 17, 1951	53	159	Nov. 29	46	41.2	Mar. 7	53	89.7
Feb. 26	62	190	Jan. 16, 1956	41	51.0	Apr. 12	68	113
Mar. 20	58	259	Mar. 7	64	60.3	May 25	85	77.6
Apr. 17	64	113	Apr. 5	66	63.2	June 29	83	175
May 16	76	186	July 12	87	57.0	July 25	92	71.1
June 19	82	1,030	Aug. 10	90	44.1	Sept. 18	77	3,830
July 17	86	124	Aug. 20	89	37.1	Oct. 19	76	340
Aug. 20	88	126	Mar. 5, 1957	59	66.8	Dec. 28	49	210
Sept. 19	74	97.7	July 5	87	330	Apr. 19, 1963	72	80.4
Oct. 17	72	100	Sept. 26	74	104	May 28	77	444
Nov. 15	64	89.2	Feb. 4, 1958	46	84.6	July 5	87	293
Dec. 19	47	89.4	Mar. 14	48	1,760	Aug. 14	86	71.6
Jan. 17, 1952	66	96.0	May 27	81	342	Sept. 23	84	67.2
Feb. 27	55	161	June 18	79	85.3	Oct. 22	77	73.9
Apr. 2	71	93.0	July 22	80	28.7	Dec. 6	52	79.3
May 29	73	396	Aug. 23	83	28.1	Jan. 10, 1964	45	60.7
June 2	81	137	Sept. 26	85	661	Feb. 6	49	198
July 16	85	81.8	Oct. 15	66	174	Mar. 10	52	530
Aug. 11	88	62.6	Nov. 18	61	99.8	Apr. 29	73	125
Sept. 9	84	64.9	Jan. 27, 1959	50	62.2	May 27	82	75.2
Oct. 9	63	75.1	Apr. 7	72	68.8	July 2	85	63.3
Oct. 29	58	73.6	May 4	78	70.3	Aug. 7	90	69.3
Nov. 14	58	76.2	May 29	80	53.6	Sept. 10	90	81.4
Dec. 2	47	97.5	June 17	86	64.3	Oct. 22	66	95.5
Dec. 23	47	110	June 23	79	3,480	Nov. 12	63	145
Jan. 7, 1953	50	102	June 24	76	432	Dec. 10	50	739
Feb. 20	53	83.6	July 21	80	170	Jan. 11, 1965	54	142
May 11	75	154	Aug. 21	84	62.6	Feb. 19	55	1,300
June 16	89	47.7	Sept. 11	82	70.0	Apr. 2	62	284
June 24	92	49.9	Sept. 28	81	81.7	Apr. 29	71	171
Aug. 6	85	50.7	Nov. 13	60	166	July 9	87	115
Sept. 9	82	50.8	Feb. 9, 1960	54	1,460	Sept. 13	84	64.5
Oct. 6	73	106	Mar. 16	51	304	Nov. 8	66	142
Nov. 10	56	84.4	Apr. 19	73	91.5	Mar. 1, 1966	57	180
Dec. 16	47	57.1	May 17	79	97.7	Apr. 1	66	137
Jan. 25, 1954	52	100	June 17	88	79.8	May 27	74	2,290
Feb. 24	60	60.8	Aug. 1	91	68.4	July 11	88	127
Mar. 29	68	62.1	Sept. 7	88	77.6	Aug. 18	87	112

TRINITY RIVER BASIN

8-0496. Mountain Creek near Cedar Hill, Tex.

Location.--Lat 32°35'03", long 97°01'23", at county road bridge, 3.5 miles downstream from Texas and New Orleans Railroad Co. bridge, 4.5 miles southwest of Cedar Hill, Dallas County, and 12 miles upstream from Mountain Creek Lake Dam.

Drainage area.--119 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 23, 1960	43	1.30	Apr. 13, 1962	66	0.32	Feb. 26, 1965	49	25.6
Feb. 10, 1961	48	56.9	June 27	78	3.29	Mar. 26	44	2.24
Apr. 21	71	1.00	July 26	75	48.1	Apr. 28	68	2.50
Apr. 26	72	.82	Sept. 11	75	18.8	June 3	82	2.55
May 24	74	.31	Oct. 16	80	.74	Mar. 2, 1966	52	.18
June 21	80	12.1	Apr. 28, 1964	72	12.2	Mar. 28	58	7.17
June 25	72	3,980	Dec. 9	45	.24	Apr. 25	68	13,800
Dec. 15	41	7.18	Jan. 12, 1965	45	3.07	May 6	66	115
Jan. 31, 1962	42	3.02	Feb. 17	51	109	June 3	74	38.4
Mar. 1	45	1.42						

TRINITY RIVER BASIN

8-0497. Walnut Creek near Mansfield, Tex.

Location.--Lat 32°34'50", long 97°06'05", at bridge on county road, 2.6 miles northeast of Mansfield, Tarrant County, 3 miles downstream from Texas and New Orleans Railroad Co. bridge, and 9 miles upstream from mouth.

Drainage area.--62.8 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 7, 1960	71	0.24	Apr. 13, 1962	61	0.19	Feb. 26, 1965	44	2.85
Dec. 23	44	.06	May 23	77	.02	Mar. 26	44	.96
Jan. 9, 1961	42	13.6	June 27	76	.95	Apr. 28	63	.62
Jan. 9	42	11.2	July 26	73	1.10	May 13	73	26.8
Feb. 8	39	45.1	Sept. 11	73	.30	June 3	75	1.75
Mar. 23	68	3.64	Oct. 16	75	.10	July 6	83	.08
Apr. 25	75	.69	Nov. 14	51	.05	Nov. 12	62	.19
May 24	73	.60	Dec. 18	50	.13	Dec. 13	52	.08
June 23	83	.11	Mar. 15, 1963	53	.20	Mar. 2, 1966	53	.19
June 26	74	49.8	Apr. 12	67	.14	Mar. 28	59	.84
Nov. 1	70	.12	May 24	68	.24	May 6	65	13.0
Dec. 15	42	.21	Mar. 17, 1964	54	.05	June 3	74	2.07
Jan. 31, 1962	49	.17	Apr. 28	69	1.03	July 7	78	.56
Mar. 1	44	.14	Jan. 12, 1965	46	.36	Sept. 28	68	.19

TRINITY RIVER BASIN

8-0501. Mountain Creek at Grand Prairie, Tex.

Location.--Lat 32°44'52", long 96°55'33", at bridge on Jefferson Street, 1,000 ft upstream from bridge on U. S. Highway 80, 1.2 miles upstream from Texas and Pacific Railroad Co. bridge, 1.5 miles downstream from Mountain Creek Lake Dam, and 4.4 miles east of Grand Prairie, Dallas County.

Drainage area.--296 sq mi.

Remarks.--Flow regulated by Mountain Creek Lake.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 10, 1960	75	1.28	Apr. 26, 1962	68	14.5	July 1, 1964	86	0.53
Jan. 8, 1961	45	3,630	May 23	89	1.07	Aug. 6	90	2.86
Feb. 10	56	4.74	June 27	85	2.00	Sept. 9	85	1.86
Mar. 23	66	3.16	Aug. 1	94	1.98	Oct. 15	65	.80
Apr. 21	72	3.20	Oct. 16	83	2.15	Dec. 10	49	1.80
May 31	76	2.41	Nov. 14	62	1.60	Jan. 11, 1965	47	1.06
June 20	80	4.15	Dec. 18	56	1.49	Feb. 23	58	1.41
July 24	92	2.59	Jan. 29, 1963	39	.36	Apr. 2	65	1.40
Sept. 1	85	1.96	Mar. 15	54	.40	Apr. 29	66	.95
Sept. 28	78	1.65	Apr. 19	76	.70	June 4	79	.71
Nov. 1	75	2.24	July 5	87	.84	July 9	82	.38
Dec. 14	43	3.12	Aug. 14	84	.56	Dec. 16	53	1.33
Jan. 29, 1962	52	.43	Oct. 25	73	.33	Jan. 12, 1966	56	.55
Mar. 8	56	.97	Dec. 2	53	.27	Mar. 1	54	.93
Apr. 12	60	138	Feb. 6, 1964	46	.20	Mar. 31	66	1.50
Apr. 26	68	94.0	Mar. 13	58	.32	June 2	75	.37
Apr. 26	68	53.8	Apr. 29	69	.93	Aug. 18	89	1.06
Apr. 26	68	21.6	June 5	73	.80	Sept. 26	69	1.05

TRINITY RIVER BASIN

8-0503. Elm Fork Trinity River near Muenster, Tex.

Location.--Lat 33°36'37", long 97°22'58", at bridge on Farm Road 373, 2.5 miles south of Muenster, Cooke County, 2.5 miles downstream from Long Branch, and 6.5 miles upstream from Brushy Elm Creek.

Drainage area.--46.0 sq mi.

Remarks.--Once-daily readings from October 1956 to September 1958 and October 1965 to September 1966 are on file in the district office at Austin.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Dec. 19, 1956	58	7.28	Feb. 11, 1960	49	7.76	June 12, 1963	79	3.52
Apr. 25, 1957	73	134	Mar. 16	46	7.25	July 18	80	.12
May 15	78	146	Apr. 20	68	4.06	Aug. 13	91	.02
July 19	72	.70	May 26	77	1.26	Sept. 17	76	.04
Aug. 29	80	.05	July 28	91	.19	Oct. 22	73	.02
Sept. 11	74	.11	Aug. 31	85	.04	Dec. 5	46	.09
Sept. 20	66	.18	Nov. 16	67	.41	Jan. 16, 1964	38	.10
Oct. 4	74	.21	Dec. 21	39	3.13	Feb. 18	52	.13
Oct. 14	64	3.83	Jan. 27, 1961	32	5.08	Mar. 11	54	1.06
Oct. 14	64	3.52	Apr. 20	69	7.45	Apr. 15	78	.41
Nov. 5	54	623	May 8	65	39.7	May 12	77	2.00
Nov. 13	56	139	May 24	65	2.66	Sept. 21	74	176
Nov. 25	52	29.3	June 20	71	.98	Oct. 16	62	1.85
Dec. 17	54	11.7	July 25	79	1.87	Dec. 17	40	24.6
Jan. 21, 1958	35	151	Aug. 29	85	.03	Jan. 13, 1965	46	5.42
Feb. 3	38	15.4	Oct. 4	60	.72	Feb. 15	48	21.4
Feb. 24	53	10.4	Nov. 8	55	.71	Mar. 16	57	9.82
Mar. 26	60	19.5	Dec. 13	37	7.81	Apr. 13	63	7.51
May 9	66	152	Jan. 17, 1962	44	4.82	May 18	71	79.0
May 14	73	68.2	Feb. 21	58	2.49	July 20	87	3.48
June 11	70	2.04	Mar. 29	64	1.68	Aug. 18	79	1.53
July 22	92	1.20	June 13	73	26.7	Oct. 13	66	1.14
Nov. 4	73	.15	July 26	79	2.57	Jan. 12, 1966	54	4.94
Dec. 9	38	.13	Aug. 15	91	1.70	Feb. 9	53	570
Jan. 14, 1959	50	1.25	Sept. 20	74	6.60	Feb. 10	53	248
Feb. 17	45	.70	Oct. 26	64	2.03	Feb. 14	49	125
Mar. 25	62	.74	Nov. 27	54	219	Mar. 16	57	24.0
Apr. 29	56	.35	Nov. 29	54	142	May 11	63	126
June 3	70	.03	Jan. 15, 1963	33	6.94	June 8	75	2.65
Oct. 3	68	353	Feb. 19	43	5.94	July 6	78	3.86
Oct. 6	67	151	Mar. 28	60	4.71	Aug. 2	83	.22
Oct. 22	71	6.46	May 3	73	29.2	Sept. 27	70	54.1
Nov. 3	69	1.89						

TRINITY RIVER BASIN

8-0505. Elm Fork Trinity River near Sanger, Tex.

Location.--lat 33°23'11", long 97°05'05", at bridge on Farm Road 455, 4.1 miles downstream from Spring Creek, 5.0 miles upstream from Isle du Bois Creek, and 5.4 miles northeast of Sanger, Denton County.

Drainage area.--381 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 11, 1949	61	8.89	Mar. 31, 1955	59	1.73	Sept. 1, 1960	86	3.13
May 10	73	49.0	Apr. 22	76	38.6	Oct. 6	73	12.4
June 20	84	17.5	May 5	76	57.3	Dec. 22	38	11.1
Aug. 11	85	.49	May 13	73	63.3	Jan. 27, 1961	33	18.4
Sept. 28	71	4.70	May 19	69	1,720	Apr. 19	67	30.3
Oct. 24	56	11,000	May 21	68	785	May 23	73	12.3
Nov. 1	55	60.8	May 21	69	413	June 19	76	5.61
Nov. 29	55	12.8	May 25	79	46.7	July 26	83	1.54
Dec. 28	45	14.2	May 27	79	83.1	Aug. 30	86	.57
Mar. 7, 1950	60	42.0	June 3	79	7.53	Oct. 5	65	12.2
May 2	62	6,260	June 10	66	131	Nov. 6	54	2.29
May 3	73	211	June 16	78	710	Dec. 14	36	28.7
May 12	67	381	July 1	84	10.3	Jan. 18, 1962	39	17.2
June 15	82	63.1	Dec. 27	49	5.39	Feb. 22	52	6.62
July 13	80	20.6	Feb. 7, 1956	41	59.7	Mar. 30	62	7.14
Aug. 16	84	18.9	Mar. 9	55	57.3	June 14	78	69.2
Aug. 28	77	5,360	Apr. 19	59	59.5	July 17	63	19.9
Sept. 20	76	418	May 4	72	60.4	Aug. 16	94	.03
Oct. 26	65	25.9	June 26	85	48.7	Sept. 12	73	357
Nov. 28	48	19.1	July 13	82	58.3	Oct. 30	60	53.2
Jan. 5, 1951	47	16.5	July 26	84	47.0	Dec. 4	58	382
Feb. 5	34	12.4	July 31	89	55.4	Jan. 8, 1963	46	52.2
Mar. 5	56	14.2	Aug. 3	83	71.5	Feb. 14	41	29.8
Apr. 5	63	10.8	Sept. 7	79	58.3	Mar. 26	62	17.2
May 3	77	29.6	Oct. 3	76	71.0	Apr. 26	72	9.07
June 11	74	166	Nov. 19	57	77.7	June 4	76	34.1
July 11	86	16.6	Jan. 17, 1957	47	13.6	July 10	89	2.21
Aug. 14	84	2.05	Feb. 28	53	74.8	Aug. 7	88	1.94
Sept. 14	75	2.16	Mar. 18	58	98.8	Sept. 10	84	2.24
Oct. 18	72	.35	Aug. 12	88	5.76	Oct. 23	71	1.83
Nov. 26	52	3.17	Sept. 10	76	3.85	Nov. 27	54	2.62
Jan. 5, 1952	44	6.42	Nov. 6	52	4,630	Jan. 7, 1964	43	4.09
Feb. 5	52	2.68	Nov. 15	56	311	Feb. 4	49	7.08
Mar. 5	52	25.4	Dec. 11	44	121	Feb. 4	49	7.07
Apr. 8	68	2.96	Feb. 21, 1958	44	72.0	Mar. 11	59	43.0
May 12	73	3.62	Mar. 25	52	95.9	Apr. 14	72	3.32
June 12	83	2.64	May 13	72	248	May 14	74	19.1
June 26	83	.32	July 24	74	24.4	June 2	72	26.2
July 22	87	.19	Aug. 19	88	4.89	July 6	91	.35
Nov. 28	43	2.06	Sept. 26	78	5.79	Nov. 18	61	15,200
Feb. 24, 1953	44	2.37	Nov. 5	69	4.18	Nov. 25	48	587
Mar. 12	57	3.61	Dec. 10	36	5.10	Jan. 14, 1965	47	40.9
Mar. 18	63	60.5	Jan. 16, 1959	46	5.87	Feb. 18	48	159
Mar. 18	63	50.9	Feb. 16	51	5.72	Mar. 24	50	38.2
Apr. 17	60	72.9	Mar. 27	54	12.7	May 5	70	18.8
May 11	70	1.74	Apr. 30	60	3.07	June 3	78	91.3
Oct. 7	66	2.96	June 9	70	3.69	July 8	86	10.7
Oct. 27	58	76.4	June 23	78	1,450	Aug. 12	80	5.40
Nov. 13	50	8.80	Aug. 7	86	3.37	Sept. 16	79	2.28
Dec. 15	43	4.00	Sept. 11	80	3.03	Oct. 21	64	82.5
Jan. 20, 1954	50	14.2	Oct. 8	70	219	Nov. 19	57	14.1
Feb. 13	48	114	Nov. 4	68	172	Dec. 16	52	19.0
Feb. 14	53	115	Nov. 5	69	39.3	Jan. 27, 1966	39	41.4
Apr. 14	68	7.80	Nov. 30	52	4.83	Feb. 9	55	27,700
May 12	58	2,030	Jan. 8, 1960	42	530	Feb. 10	55	4,890
June 11	82	36.0	Feb. 13	43	50.2	Mar. 3	57	75.3
Aug. 13	82	57.3	Apr. 17	46	49.2	Apr. 14	67	41.2
Sept. 20	81	60.6	Apr. 21	65	27.8	June 3	75	36.6
Nov. 18	60	.38	May 26	80	12.7	July 20	86	12.1
Dec. 15	44	1.54	June 18	79	8.78	Sept. 1	77	50.0

TRINITY RIVER BASIN

8-0510. Isle du Bois Creek near Pilot Point, Tex.

Location.--Lat 33°24'23", long 97°00'45", at bridge on Farm Road 372, 2.4 miles downstream from Wolf Creek, 3.0 miles west of Pilot Point, Denton County, and 6.3 miles upstream from mouth.

Drainage area.--266 sq mi.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Apr. 12, 1949	62	31.6	Jan. 20, 1954	53	6.27	Oct. 4, 1961	61	80.8
May 10	72	2.89	Apr. 14	66	.83	Oct. 5	60	26.2
June 20	81	6.62	May 12	58	2,550	Nov. 9	47	.03
Nov. 1	56	1.97	June 11	81	15.1	Dec. 14	36	24.5
Nov. 29	57	.49	Nov. 18	61	.02	Jan. 18, 1962	38	5.09
Dec. 28	45	2.29	Dec. 15	43	.64	Feb. 22	51	.72
Mar. 7, 1950	57	11.8	Feb. 25, 1955	45	3.01	Mar. 29	68	1.11
Apr. 10	69	5.08	Mar. 31	57	.85	June 14	73	53.2
May 3	68	3,310	May 2	74	5.27	June 19	75	2,160
May 4	72	174	May 20	69	3,060	July 17	82	.43
May 12	67	1,940	May 21	68	3,660	Sept. 9	71	6,100
June 14	83	27.0	May 25	71	15.5	Sept. 11	71	105
June 15	82	15.7	May 27	75	148	Oct. 30	59	83.8
Aug. 16	84	1.02	June 3	77	1.79	Dec. 3	59	415
Aug. 28	75	689	July 1	82	.33	Jan. 8, 1963	43	9.67
Aug. 28	75	970	May 4, 1956	71	6.72	Feb. 14	38	4.82
Aug. 28	75	1,090	June 12, 1958	72	1.18	Mar. 26	60	3.90
Aug. 29	78	4,590	July 23	88	2.36	Apr. 26	70	1.31
Sept. 20	77	57.9	Aug. 19	85	.10	June 3	72	8.08
Oct. 26	66	3.27	Nov. 5	73	.05	July 10	90	.05
Nov. 28	44	3.12	Dec. 9	37	.11	Feb. 4, 1964	48	.15
Jan. 5, 1951	45	6.73	Jan. 15, 1959	48	.81	Apr. 15	68	.08
Feb. 5	34	4.01	Feb. 18	48	.79	May 12	74	6.61
Mar. 9	55	10.0	Mar. 26	59	1.53	June 2	70	18.7
Apr. 5	62	5.66	Apr. 30	60	.36	July 7	87	.03
May 3	67	56.5	June 9	72	3.19	Oct. 19	61	.08
June 11	72	361	July 8	81	1.50	Nov. 19	57	10,300
July 11	83	2.52	Aug. 7	81	.36	Jan. 14, 1965	42	8.06
Aug. 14	83	10.6	Oct. 6	70	3.54	Feb. 18	45	82.6
Sept. 14	74	.76	Oct. 7	60	37.5	Mar. 24	48	9.01
Nov. 26	52	.85	Nov. 4	66	198	May 5	70	2.35
Jan. 5, 1952	43	.41	Nov. 30	44	1.17	June 3	77	10.6
Feb. 5	52	.18	Feb. 12, 1960	46	19.6	July 8	86	.92
Mar. 5	48	50.2	Mar. 17	47	22.8	Aug. 11	89	.06
Apr. 8	63	.42	Apr. 22	64	6.93	Oct. 20	67	9.83
May 12	68	.88	May 27	77	2.57	Nov. 19	57	1.92
June 12	85	1.14	Sept. 2	87	.06	Dec. 15	49	1.96
Nov. 28	42	8.45	Oct. 6	73	.19	Jan. 27, 1966	37	1.38
Feb. 24, 1953	44	.91	Dec. 22	38	1.18	Mar. 4	54	6.96
Mar. 12	56	18.2	Jan. 30, 1961	36	2.40	Apr. 14	64	2.82
Mar. 19	62	9.03	Mar. 7	58	15.4	June 3	77	2.19
Mar. 19	62	82.7	May 25	69	3.20	July 20	83	1.45
Nov. 13	50	.92	June 19	78	1.87	Aug. 31	73	49.1
Dec. 15	41	3.22	July 26	81	11.5			

TRINITY RIVER BASIN

8-0515. Clear Creek near Sanger, Tex.

Location.--Lat 33°20'10", long 97°10'45", at bridge on county road (formerly U.S. Highway 77), 1,000 ft downstream from Interstate Highway 35 and U.S. Highway 77, 1,350 ft downstream from Duck Creek, 1.1 miles upstream from Gulf, Colorado and Santa Fe Railway Co. bridge, and 1.8 miles south of Sanger, Denton County.

Drainage area.--295 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 9, 1949	61	2.93	Sept. 10, 1957	76	0.04	May 1, 1962	65	89.0
May 11	77	3.46	Nov. 6	52	710	June 15	78	40.3
June 20	66	23.4	Dec. 11	37	44.2	July 17	87	12.3
Oct. 24	55	6,220	Jan. 6, 1958	45	34.3	Sept. 12	72	544
Nov. 1	54	13.0	Feb. 21	49	43.7	Oct. 30	60	30.6
Nov. 29	52	4.45	Mar. 24	54	70.4	Dec. 4	57	205
Dec. 26	43	7.99	June 12	72	19.0	Jan. 8, 1963	44	36.2
Mar. 9, 1950	55	33.6	July 25	80	12.8	Feb. 14	45	22.1
June 15	80	30.7	Aug. 19	85	.52	Mar. 25	71	14.0
July 13	80	19.3	Sept. 27	82	1.24	Apr. 26	70	9.75
Aug. 17	78	24.6	Nov. 6	68	.30	June 4	76	22.1
Sept. 20	75	321	Dec. 10	37	4.34	July 10	91	.05
Oct. 26	69	24.6	Jan. 16, 1959	40	5.31	Aug. 7	86	.01
Nov. 28	50	19.6	Feb. 16	49	5.40	Feb. 4, 1964	48	4.33
Jan. 5, 1951	49	16.2	Mar. 27	54	14.0	Mar. 12	51	9.32
Feb. 5	39	20.2	May 1	55	.81	Apr. 14	71	.89
Mar. 5	58	13.4	June 10	74	.90	May 14	74	7.20
Apr. 5	65	11.1	July 13	82	1.58	June 2	70	45.2
May 3	78	20.2	Aug. 6	85	.31	Oct. 20	60	5.10
June 11	73	77.0	Oct. 5	68	268	Nov. 20	56	1,630
July 13	85	2.91	Nov. 5	65	22.1	Dec. 11	49	160
Feb. 5, 1952	46	1.27	Jan. 8, 1960	40	331	Jan. 15, 1965	45	47.6
Mar. 5	55	7.35	Feb. 13	43	36.6	Feb. 19	49	133
Apr. 8	72	.35	Mar. 17	46	33.6	Mar. 25	41	45.9
June 12	80	.98	Apr. 21	65	20.0	May 6	69	27.7
Mar. 18, 1953	60	70.6	May 26	79	8.02	June 4	79	66.3
Apr. 24	64	127	June 17	79	4.66	July 9	80	9.04
May 16	67	313	Dec. 22	40	3.78	Aug. 12	88	2.68
Nov. 13	50	.85	Jan. 27, 1961	32	9.77	Sept. 16	89	.01
Jan. 20, 1954	52	10.6	Mar. 6	64	30.6	Oct. 21	64	39.8
Apr. 14	69	8.36	Apr. 19	74	26.1	Nov. 22	58	12.1
June 11	85	8.49	May 23	73	17.0	Dec. 17	45	13.2
May 21, 1955	70	100	June 19	80	7.26	Jan. 28, 1966	38	25.7
May 25	82	4.94	Nov. 6	49	1.08	Mar. 5	45	42.3
May 27	82	16.4	Dec. 11	40	32.2	Apr. 15	64	30.2
July 1	87	.55	Jan. 19, 1962	34	9.49	June 2	83	30.0
May 4, 1956	71	1.48	Feb. 22	55	4.55	July 21	88	6.56
Dec. 21	45	3.62	Mar. 30	63	2.85	Sept. 1	79	107

TRINITY RIVER BASIN

8-0527. Little Elm Creek near Aubrey, Tex.

Location.--Lat 33°17'00", long 96°53'33", at bridge on Farm Road 1385, 1 mile upstream from Mustang Creek, 5.5 miles east of Aubrey, Denton County, and 18 miles upstream from Lewisville Dam.

Drainage area.--75.5 sq mi.

Remarks.--Once-daily readings for the period February to September 1966 are on file in the district office at Austin.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 7, 1957	58	510	Oct. 5, 1961	63	3.81	Nov. 20, 1964	56	203
Dec. 10	50	3.87	Dec. 14	39	5.58	Nov. 21	54	41.7
Dec. 17	62	1.03	Jan. 18, 1962	42	1.24	Nov. 24	51	8.92
Dec. 30	52	3.65	Feb. 22	53	.04	Dec. 10	50	120
Feb. 20, 1958	43	.7	Mar. 29	72	.01	Jan. 13, 1965	53	1.92
Mar. 25	50	9.03	June 14	77	12.8	Feb. 17	49	62.6
Nov. 4, 1959	69	1,820	Sept. 8	71	2,010	Mar. 24	41	.96
Nov. 5	66	256	Sept. 11	72	26.2	June 3	79	1.23
Jan. 9, 1960	44	28.4	Oct. 29	63	39.0	Nov. 19	57	.11
Feb. 12	46	2.89	Dec. 3	59	81.6	Dec. 15	46	.11
Mar. 17	40	0.70	Jan. 7, 1963	51	1.85	Jan. 26, 1966	39	.24
Dec. 23	39	0.13	Feb. 13	45	.05	Mar. 4	51	.59
Mar. 7, 1961	58	1.74	June 3	77	3.73	Aug. 26	82	3.52
June 19	78	.09	June 4, 1964	77	.57	Sept. 27	72	.43
July 26	84	1.51						

TRINITY RIVER BASIN

8-0530. Elm Fork Trinity River near Lewisville, Tex.

Location.--Lat 33°02'45", long 96°57'40" at bridge on State Highway 121, 1.8 miles east of Lewisville, Denton County, 1.9 miles downstream from Garza-Little Elm Reservoir, and 8.3 miles upstream from Denton Creek.

Drainage area.--1,673 sq. mi.

Remarks.--Flow regulated by Garza-Little Elm Reservoir since November 1954.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 7, 1949	55	95.3	Apr. 6, 1954	64	114	Oct. 7, 1960	78	128
Apr. 13	60	102	May 13	60	4,570	Nov. 21	59	132
June 13	80	510	Sept. 2	85	190	Dec. 28	46	94.8
Aug. 24	80	136	Oct. 5	78	101	Jan. 31, 1961	39	150
Sept. 30	71	133	Nov. 18	59	28.7	Mar. 8	55	154
Nov. 7	57	104	Feb. 7, 1955	49	27.2	Apr. 25	66	207
Dec. 13	50	109	Feb. 21	45	1.11	May 26	71	206
Jan. 6, 1950	52	348	Apr. 27	70	93.4	June 21	77	151
Feb. 9	54	642	June 1	78	73.8	June 30	82	10.5
Mar. 14	44	334	July 14	83	235	July 27	81	226
Apr. 28	68	109	Sept. 23	81	97.7	Aug. 31	82	222
May 29	75	111	Oct. 28	63	76.7	Oct. 6	72	126
July 6	78	711	Nov. 29	47	82.1	Nov. 8	63	82.3
Aug. 4	83	590	Jan. 16, 1956	43	74.9	Dec. 7	54	78.6
Sept. 12	75	1,680	Mar. 6	63	112	Dec. 15	44	104
Oct. 11	72	204	Mar. 21	52	150	Jan. 26, 1962	42	113
Nov. 2	65	216	Apr. 9	64	106	Mar. 6	48	131
Dec. 4	49	133	May 11	75	172	Apr. 3	56	2.40
Jan. 4, 1951	44	69.0	Aug. 10	84	219	Apr. 3	58	2.34
Feb. 2	42	73.4	Oct. 2	75	113	Apr. 11	57	78.3
Mar. 6	57	74.0	Nov. 21	59	33.7	June 13	79	276
Apr. 3	57	70.4	Dec. 18	45	29.7	June 19	76	432
May 1	78	121	Jan. 16, 1957	36	49.5	June 28	74	622
June 11	72	3,350	Feb. 27	53	48.3	July 9	75	374
June 11	72	3,510	Apr. 5	60	46.3	July 31	86	204
June 13	72	4,610	Sept. 9	76	44.3	Sept. 12	78	2,700
July 9	82	577	Sept. 26	76	285	Nov. 15	61	158
Aug. 9	84	306	Dec. 19	53	261	Apr. 17, 1963	65	135
Sept. 7	82	300	Jan. 10, 1958	49	114	May 3	70	3,080
Nov. 9	51	102	Jan. 31	49	288	June 7	78	258
Dec. 6	59	111	Feb. 19	45	718	July 2	82	226
Jan. 5, 1952	44	80.2	Apr. 10	52	820	Oct. 1	76	259
Feb. 6	52	80.2	May 23	67	3,420	Dec. 9	54	138
Mar. 5	50	129	June 17	71	3,790	Jan. 9, 1964	45	138
Apr. 4	57	78.9	July 27	76	303	Feb. 10	48	86.8
Apr. 23	65	4,870	Oct. 31	63	76.9	Mar. 16	54	109
May 7	69	85.4	Dec. 11	45	90.1	May 4	70	123
June 5	75	92.5	Jan. 16, 1959	44	84.2	June 3	78	155
July 16	76	186	Feb. 24	48	65.4	June 25	82	323
Aug. 12	82	239	Mar. 31	50	84.3	July 13	81	365
Sept. 9	74	219	Apr. 14	50	13.0	Aug. 12	89	379
Oct. 13	64	115	Apr. 14	49	3.78	Sept. 15	72	249
Oct. 28	59	52.6	May 2	54	127	Oct. 20	63	202
Nov. 12	52	40.8	June 11	75	187	Nov. 23	65	4,540
Dec. 3	44	14.7	July 16	79	179	Jan. 5, 1965	49	286
Jan. 9, 1953	45	28.3	Aug. 8	85	197	Feb. 18	55	3,610
Feb. 25	46	48.5	Sept. 29	68	127	Mar. 9	48	214
Mar. 26	60	38.7	Nov. 6	67	28.4	Apr. 13	60	180
Apr. 29	63	6,880	Nov. 29	51	65.1	June 29	80	279
May 18	68	614	Jan. 9, 1960	47	3,230	Aug. 3	79	336
Aug. 7	81	177	Jan. 25	44	1,230	Sept. 15	81	268
Sept. 4	78	8.70	Feb. 14	45	272	Oct. 20	69	221
Sept. 9	77	127	Mar. 18	46	53.6	Dec. 6	59	221
Oct. 8	67	128	Apr. 23	62	119	June 10, 1966	54	75.1
Nov. 13	52	45.0	May 28	78	140	Mar. 29	57	174
Nov. 23	50	37.3	June 19	79	137	May 20	70	5,520
Nov. 15	43	81.4	Aug. 24	82	256	June 30	78	3,120
Feb. 25, 1954	55	74.5	Sept. 6	85	255	Aug. 16	82	242

TRINITY RIVER BASIN

8-0535. Denton Creek near Justin, Tex.

Location.--lat 33°07'08", long 97°17'25", at bridge on Farm Road 156, 100 ft upstream from Gulf, Colorado and Santa Fe Railway Co. bridge, 2.2 miles north of Justin, Denton County, 3.0 miles upstream from Olivers Creek, 12.9 miles upstream from Harriet Creek, and 32.9 miles upstream from Grapevine Dam.

Drainage area.--400 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Nov. 8, 1949	57	7.93	May 27, 1955	79	0.81	July 24, 1961	89	0.13
Dec. 8	49	5.27	May 4, 1956	71	9.95	Oct. 2	58	52.2
Jan. 3, 1950	62	9.00	Dec. 21	46	32.9	Dec. 11	43	93.1
Mar. 8	94	21.3	Nov. 6, 1957	54	1,550	Jan. 19, 1962	36	9.25
Apr. 16	60	394	Dec. 12	39	22.2	Feb. 22	54	3.95
May 2	65	5,040	Jan. 6, 1958	42	21.4	Mar. 27	63	5.58
May 3	70	2,760	Mar. 14	43	190	Apr. 30	74	156
May 11	72	153	Mar. 24	52	64.1	June 15	77	100
June 6	70	54.0	May 29	82	41.9	Sept. 10	73	1,620
July 7	77	321	July 26	78	3.61	Oct. 29	62	134
Aug. 3	80	82.0	Dec. 10	40	2.15	Dec. 4	57	266
Sept. 8	72	176	Jan. 16, 1959	46	4.20	Jan. 8, 1963	47	41.3
Oct. 10	65	24.5	Feb. 16	48	5.69	Feb. 14	44	19.6
Dec. 28	41	15.9	May 1	56	.85	Mar. 22	67	14.3
Feb. 5, 1951	34	11.0	June 10	76	.33	Apr. 26	73	7.64
Mar. 6	60	17.6	July 13	74	4.90	July 11	88	.30
Apr. 6	67	12.7	Aug. 7	85	2.39	May 14, 1964	73	23.3
May 2	69	34.9	Oct. 5	67	8,190	Oct. 21	55	.24
June 8	78	46.7	Nov. 5	64	49.6	Jan. 15, 1965	46	35.6
July 9	84	23.1	Nov. 29	42	8.78	Feb. 19	49	128
Feb. 6, 1952	53	1.18	Jan. 8, 1960	37	314	Mar. 25	44	38.0
Mar. 5	49	6.86	Feb. 14	41	47.5	May 6	70	17.9
Apr. 4	60	.85	Mar. 18	46	31.9	June 4	78	45.4
May 9	78	3.59	Apr. 22	68	24.2	July 9	83	5.27
June 11	80	2.66	May 27	79	8.94	Aug. 12	92	.02
Apr. 25, 1953	64	30.4	June 18	79	7.59	Oct. 21	62	97.5
Oct. 27	60	451	Dec. 23	38	3.00	Nov. 22	58	5.09
Dec. 8	49	8.16	Jan. 30, 1961	37	14.4	Dec. 17	48	7.61
Jan. 19, 1954	48	9.42	Mar. 7	63	26.6	Jan. 28, 1966	39	9.86
Apr. 15	71	5.63	Apr. 24	76	16.0	Mar. 8	50	19.0
Apr. 30	77	.03	May 23	73	57.3	May 31	76	36.2
May 11	58	1.55	June 20	78	7.45	July 21	87	7.14
June 14	81	2.64						

TRINITY RIVER BASIN

8-0540. Denton Creek near Roanoke, Tex.

Location.--lat 33°02', long 97°12', on right bank 1,100 ft downstream from bridge on U. S. Highway 377, 1,200 ft downstream from Texas and Pacific Railway bridge, 2.5 miles northeast of Roanoke, Denton County, and 8.5 miles downstream from Olivers Creek.

Drainage area.--621 sq mi.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Feb. 25, 1949	57	55.4	Nov. 27, 1950	46	17.4	Mar. 12, 1953	56	3.12
Mar. 26	60	3,940	Dec. 28	45	18.8	Apr. 9	70	45.4
June 6	83	27.8	Feb. 5, 1951	39	13.8	Apr. 25	66	47.2
June 14	74	2,040	Mar. 6	60	21.5	Apr. 27	69	5.79
Aug. 23	86	5.02	Apr. 6	68	13.9	Oct. 7	66	9.75
Sept. 26	78	1.58	May 2	74	59.1	Oct. 27	59	440
Nov. 28	55	6.25	June 8	80	54.0	Oct. 28	55	631
Dec. 29	46	7.70	June 14	72	3,880	Jan. 19, 1954	43	31.0
Mar. 8, 1950	57	45.8	July 9	94	29.4	Apr. 15	71	19.3
June 6	71	114	Feb. 6, 1952	55	.43	Apr. 30	78	8.19
Aug. 4	78	200	Mar. 5	53	6.06	May 11	58	245
Sept. 6	70	2,920	Apr. 4	65	1.15	June 14	83	4.68
Oct. 10	68	30.6	May 9	80	5.88	May 27, 1955	78	20.0
Nov. 2	68	14.0	June 11	83	3.63			

TRINITY RIVER BASIN

8-0550. Denton Creek near Grapevine, Tex.

Location.--Lat 32°59'13", long 97°00'45", at bridge on State Highway 121, 1.3 miles downstream from Bakers Branch, 4.3 miles downstream from Grapevine Dam, 5.0 miles northeast of Grapevine, Tarrant County, and 6.1 miles upstream from mouth.

Drainage area.--705 sq mi.

Remarks.--Flow regulated by Grapevine Reservoir since July 1952.

Temperature and discharge measurements								
Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Oct. 26, 1949	58	1,140	Jan. 16, 1957	36	0.37	Oct. 6, 1961	68	16.6
Nov. 28	55	9.96	Feb. 27	53	.62	Dec. 11	50	44.3
Dec. 29	46	11.2	Apr. 5	61	1.19	Dec. 14	48	45.6
Feb. 10, 1950	70	119	Sept. 9	78	44.5	Jan. 26, 1962	44	50.0
Apr. 13	62	79	Oct. 9	71	49.6	Mar. 6	51	.41
June 7	74	110	Jan. 10, 1958	50	12.3	Apr. 3	57	144
June 13	79	837	Jan. 31	48	58.2	Apr. 11	58	52.2
July 6	75	1,780	Feb. 19	44	12.7	May 24	77	47.9
Aug. 4	82	169	Apr. 1	55	2,030	Aug. 1	83	48.9
Sept. 8	70	377	Apr. 9	53	17.2	Aug. 24	82	258
Oct. 11	67	36.1	June 17	70	1,290	Oct. 17	74	35.4
Nov. 2	68	15.7	July 27	80	18.3	Nov. 15	61	54.2
Dec. 4	50	24.6	Aug. 20	88	20.9	Dec. 19	54	49.5
Jan. 4, 1951	47	24.4	Sept. 16	74	234	Jan. 30, 1963	39	51.2
Feb. 7	44	19.7	Oct. 31	62	34.8	Mar. 18	60	47.7
Mar. 6	63	22.8	Nov. 7	58	20.4	Apr. 17	65	104
Mar. 6	63	25.4	Dec. 11	39	16.0	May 31	77	22.7
Apr. 3	63	17.2	Dec. 11	39	15.8	June 7	78	64.0
May 1	72	26.1	Jan. 17, 1959	47	19.1	July 2	80	19.5
June 18	81	528	Feb. 20	44	17.4	Sept. 27	75	27.2
July 19	84	9.74	Mar. 31	52	17.1	Nov. 4	67	10.7
Sept. 20	71	.54	Apr. 14	49	126	Dec. 9	48	11.7
Mar. 5, 1952	63	.11	May 1	54	60.1	Jan. 4, 1964	42	9.88
Apr. 4	71	.12	May 113	76	26.5	Feb. 6	44	10.6
May 7	76	27.2	June 10	73	28.7	Mar. 16	53	11.1
June 5	79	117	July 16	81	15.7	Apr. 27	72	9.06
Apr. 15, 1954	72	.75	Aug. 8	82	51.2	June 3	79	15.8
June 14	79	178	Sept. 14	81	30.9	June 25	79	40.5
Oct. 1	74	8.12	Oct. 27	68	35.2	July 13	80	73.3
Nov. 2	57	48.9	Nov. 5	65	76.4	Aug. 12	84	17.3
Nov. 9	58	44.7	Nov. 29	50	77.4	Sept. 15	76	8.71
Dec. 8	51	21.6	Dec. 29	50	73.8	Oct. 20	63	18.0
Dec. 9	50	64.7	Jan. 25, 1960	45	64.9	Oct. 21	66	14.9
Dec. 10	50	48.8	Jan. 29	45	275	Nov. 17	66	20.1
Dec. 22	46	43.8	Feb. 14	45	97.3	Dec. 8	50	1,130
Jan. 28, 1955	46	52.8	Mar. 18	48	75.9	Dec. 11	50	1,400
Feb. 21	48	51.0	Apr. 23	65	109	Jan. 4, 1965	56	240
Mar. 9	59	50.1	May 28	77	130	Feb. 1	55	84.9
Mar. 24	58	49.9	June 16	72	157	Mar. 10	47	81.9
Apr. 14	65	46.9	June 19	79	153	Apr. 12	58	108
May 4	75	24.1	Sept. 2	78	35.8	June 28	79	123
June 1	79	22.8	Sept. 6	86	33.9	Aug. 2	78	69.0
July 14	88	.77	Oct. 6	77	16.2	Sept. 14	81	97.8
July 13, 1956	81	42.6	Dec. 28	46	19.3	Oct. 19	69	16.5
July 17	81	77.1	Jan. 30, 1961	39	17.4	Dec. 6	56	14.0
July 23	83	94.8	Mar. 7	61	12.9	Jan. 10, 1966	53	59.4
July 31	86	59.5	Apr. 24	67	28.6	Feb. 16	47	63.2
Aug. 21	83	38.4	May 25	73	14.8	Mar. 29	56	60.4
Sept. 6	78	44.8	June 21	74	117	May 3	62	80.6
Oct. 5	74	16.8	July 24	77	124	June 30	75	1,710
Nov. 21	51	13.7	Aug. 31	75	64.4	Aug. 18	82	48.2
Dec. 18	46	16.3						

TRINITY RIVER BASIN

8-0555. Elm Fork Trinity River near Carrollton, Tex.

Location.--Lat 32°57'57", long 96°56'40", at highway bridge, 40 ft upstream from Carrollton Dam, 0.3 mile downstream from Denton Creek, 1 mile upstream from St. Louis Southwestern Railway Lines bridge, and 2.3 miles northwest of Carrollton, Dallas County.

Drainage area.--2,459 sq mi.

Remarks.--Flow largely regulated by Gerza-Little Elm Reservoir since November 1954 and Grapevine Reservoir since July 1952.

Temperature and discharge measurements

Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)	Date	Temperature (°F)	Discharge (cfs)
Mar. 15, 1950	54	262	Mar. 6, 1956	68	87.3	July 27, 1961	82	246
Apr. 13	63	128	Mar. 21	54	113	Aug. 31	80	193
May 15	73	9,110	May 11	74	79.0	Oct. 6	68	95.5
June 20	80	1,020	July 6	83	86.6	Nov. 9	54	103
July 17	80	629	Aug. 21	85	154	Dec. 7	55	102
Sept. 22	75	2,650	Oct. 2	76	96.9	Jan. 29, 1962	45	82.0
Nov. 28	48	160	Nov. 23	49	1.06	Mar. 6	49	66.1
Jan. 2, 1951	52	98.2	Dec. 18	50	.91	Apr. 11	59	69.9
Feb. 9	47	113	Apr. 20, 1957	68	88.9	May 25	77	188
Mar. 6	59	102	Sept. 9	79	382	July 5	77	585
Apr. 4	61	86.0	Dec. 13	51	89.0	Aug. 1	85	196
May 1	72	135	Dec. 19	57	81.0	Sept. 19	78	5,300
June 12	73	3,620	Jan. 10, 1958	45	129	Oct. 18	76	3,460
June 12	73	3,960	Feb. 18	47	668	Jan. 31, 1963	39	225
June 13	72	5,780	June 17	70	4,710	Mar. 19	62	102
July 9	82	844	July 26	72	192	Apr. 17	67	128
Aug. 9	85	310	Aug. 20	83	106	May 31	74	168
Sept. 7	84	307	Sept. 16	76	157	July 5	83	225
Oct. 9	69	242	Nov. 6	66	98.5	Aug. 12	79	302
Nov. 8	51	74.0	Feb. 18, 1959	51	38.6	Nov. 5	70	122
Dec. 4	56	104	Mar. 31	50	35.8	Dec. 11	50	76.4
Jan. 10, 1952	45	75.0	Apr. 14	51	50.8	Jan. 9, 1964	44	106
Feb. 18	53	78.6	May 2	60	105	Feb. 10	48	47.9
Mar. 21	63	107	June 11	74	115	Mar. 16	54	27.4
Apr. 21	74	148	July 16	78	114	May 4	73	94.8
June 2	77	125	July 20	74	2,590	June 4	73	81.7
July 3	84	111	Nov. 6	70	45.9	July 10	80	298
Aug. 6	82	133	Nov. 29	47	62.8	Aug. 12	79	246
Sept. 9	77	147	Jan. 9, 1960	49	3,740	Sept. 15	82	155
Oct. 28	57	60.2	Mar. 19	51	92.5	Sept. 21	71	15,600
Dec. 3	45	14.8	Apr. 23	66	156	Oct. 21	62	96.5
Jan. 8, 1953	48	33.2	June 19	79	150	Dec. 1	56	4,670
Feb. 25	50	35.7	Aug. 21	76	3,200	Feb. 4, 1965	47	576
June 23	87	49.9	Aug. 21	76	2,520	Mar. 10	49	209
Aug. 7	86	92.1	Aug. 21	76	1,700	Apr. 12	66	263
Sept. 4	79	54.6	Aug. 21	76	2,150	May 25	71	3,500
Oct. 8	70	41.4	Aug. 22	78	556	June 29	79	308
May 14, 1954	61	3,980	Aug. 22	78	454	Aug. 2	81	245
Mar. 29, 1955	53	26.2	Aug. 22	78	386	Oct. 19	70	173
Apr. 27	73	60.6	Sept. 6	84	266	Nov. 29	60	238
July 14	84	146	Oct. 7	79	100	Jan. 10, 1966	54	85.3
Sept. 23	80	56.7	Dec. 28	47	62.3	Mar. 29	57	158
Oct. 28	63	24.1	Jan. 31, 1961	37	116	May 3	62	244
Nov. 29	49	8.87	May 26	73	155	June 3	70	2,690
Jan. 16, 1956	45	4.69	June 21	75	167	Aug. 16	82	222