



# TEXAS WATER DEVELOPMENT BOARD



James E. Herring, *Chairman*  
Lewis H. McMahan, *Member*  
Edward G. Vaughan, *Member*

J. Kevin Ward  
*Executive Administrator*

Jack Hunt, *Vice Chairman*  
Thomas Weir Labatt III, *Member*  
Joe M. Crutcher, *Member*

**TO:** Board Members

**THROUGH:** Carolyn Brittin, Deputy Executive Administrator, Water Resources Planning and Information

Dan Hardin, Director, Water Resources Planning

**FROM:** Matt Nelson, Team Lead, Regional Water Planning, Water Resources Planning and Information

Temple McKinnon, Team Lead, Regional Water Planning, Water Resources Planning and Information

**DATE:** November 17, 2008

**SUBJECT:** Amendment to the 2007 State Water Plan.

## **ACTION REQUESTED**

Consider amending the 2007 State Water Plan to incorporate amendments to the 2006 Region G and Region I regional water plans including: a) a new water management strategy to meet increased Steam-electric water demands in Somervell County in Region G; and, b) revised Region I groundwater availability estimates and an associated water management strategy for the City of Diboll.

## **BACKGROUND**

The amendments to the 2007 State Water Plan being recommended are to incorporate amendments to the 2006 Region G and 2006 Region I regional water plans that were approved by the Board on September 23, 2008 (see Attachments A and B), and are summarized in Attachment C.

Public notice of a public hearing on incorporating the approved regional water plan amendments into the 2007 State Water Plan was published on October 3, 2008 in the Texas Register (Attachment D).

## **KEY ISSUES**

There are three changes associated with these proposed 2007 State Water Plan amendments:

### *Our Mission*

*To provide leadership, planning, financial assistance, information and education for the conservation and responsible development of water for Texas.*

P.O. Box 13231 • 1700 N Congress Avenue • Austin, Texas 78711-3231  
Telephone (512) 463-7847 • Fax (512) 475-2053 • 1-800-RELAYTX (for the hearing impaired)  
www.twdb.state.tx.us • info@twdb.state.tx.us

TNRIS – Texas Natural Resources Information System • www.tnris.state.tx.us  
*A Member of the Texas Geographic Information Council (TGIC)*



Region G Amendment:

1. The addition of a recommended water management strategy in Region G to meet increased Steam-Electric water demands associated with two new 1,700 MW nuclear generating units planned in Somervell County. On July 9, 2008, Region G held the associated public hearing on the regional plan amendment and, on September 23, 2008, the Board approved this regional plan amendment (Attachment A).

Region I Amendment:

2. Modification of groundwater availability estimates from the Yegua-Jackson Aquifer in Region I based upon recent local studies, and
3. The addition of a recommended water management strategy in Region I to increase the groundwater supply from the Yegua-Jackson Aquifer to the City of Diboll as a replacement to an infeasible water supply alternative.

On July 10, 2008, Region I held the associated public hearing to the regional plan amendment and, on September 23, 2008, the Board approved this regional plan amendment (Attachment B).

**PREVIOUS AMENDMENTS**

On August 25, 2008, the Board approved several minor amendments to the 2006 Region G water plan and was informed of one water management strategy substitution made to the 2006 Region G water plan. In addition, on September 23, 2008, the Board revised the Steam-Electric water demand projections in Somervell County at Region G's request.

A summary of all amendments made since publication of the 2007 State Water Plan, including the previous substitution, minor amendments, revised water demand projections, and the Region G and Region I amendments being considered today (pending approval), will be published as Addendum No.1 to the 2007 State Water Plan, as shown in Attachment E.

**ANTICIPATED OPPOSITION**

None.

**RECOMMENDATION**

Pending public comments, staff recommends amending the 2007 State Water Plan to incorporate amendments to the 2006 Region G and Region I regional water plans including: a) a new water management strategy to meet increased Steam-Electric water demands in Somervell County in Region

Board Members  
November 17, 2008  
Page 3

G; and, b) revised Region I groundwater availability estimates and an associated water management strategy for the City of Diboll.

This recommendation has been reviewed by legal counsel and is in compliance with applicable statutes and Board rules.

---

Ken Petersen  
General Counsel

Attachment A: September 15, 2008 Memo to Board Re: Region G  
Attachment B: September 15, 2008 Memo to Board Re: Region I  
Attachment C: Summary of Proposed Amendments to the 2007 State Water Plan  
Attachment D: Notice of Public Hearing on Proposed Amendments to the 2007 State Water Plan  
Attachment E: Addendum No. 1 to the 2007 State Water Plan

## Attachment A



# TEXAS WATER DEVELOPMENT BOARD



James E. Herring, *Chairman*  
Lewis H. McMahan, *Member*  
Edward G. Vaughan, *Member*

J. Kevin Ward  
*Executive Administrator*

Jack Hunt, *Vice Chairman*  
Thomas Weir Labatt III, *Member*  
Joe M. Crutcher, *Member*

**TO:** Board Members

**THROUGH:** Carolyn L. Brittin, Deputy Executive Administrator, Water Resources Planning and Information

**FROM:** Matt Nelson, Team Lead, Regional Water Planning, Water Resources Planning and Information

**DATE:** September 15, 2008

**SUBJECT:** Amendment to the 2006 Region G Regional Water Plan

### **ACTION REQUESTED**

Consider approving an amendment to the 2006 Region G Regional Water Plan for a water management strategy to meet revised Steam-Electric water demands in Somervell County.

### **BACKGROUND**

Luminant Power plans to add two new 1,700 MW generating units to its Comanche Peak power station in Somervell County. There are currently two existing nuclear generating units at the Comanche Peak power station. Because they were not considered in the 2006 Region G Regional Water Plan, the addition of these two new units will increase the projected steam-electric water demands for Somervell County over the currently projected steam-electric water demands in the 2006 Region G Regional Water Plan and 2007 State Water Plan throughout the planning horizon. The increased water demand will result in an increase in identified water needs in Somervell County.

Somervell County, on behalf of Luminant Power, requested that Region G amend its 2006 regional water plan to: a) increase the Somervell County steam-electric demands; and, b) to incorporate a water management strategy to meet those increased steam-electric water demands.

In certain cases, a region may expedite amending its regional water plan by using the 'minor' amendment process allowed under Texas Water Development Board (TWDB) rules (31 TAC § 357.16). The Region G Water Planning Group did not choose this alternative and was therefore required to hold a public hearing and to amend its plan per 31 TAC §357.12.

#### *Our Mission*

*To provide leadership, planning, financial assistance, information and education for the conservation and responsible development of water for Texas.*

P.O. Box 13231 • 1700 N Congress Avenue • Austin, Texas 78711-3231  
Telephone (512) 463-7847 • Fax (512) 475-2053 • 1-800-RELAYTX (for the hearing impaired)  
www.twdb.state.tx.us • info@twdb.state.tx.us

TNRIS – Texas Natural Resources Information System • www.tnris.state.tx.us  
*A Member of the Texas Geographic Information Council (TGIC)*



As required by TWDB rules (31 TAC § 357.5(d)(2) and §357.12) on July 9, 2008, the Region G Water Planning Group held a public hearing on the proposed amendment to increase the Somervell County steam-electric demands and to add a water management strategy to meet the increased steam-electric water demands in Somervell County. Following the hearing, the Region G Water Planning Group: a) approved submitting a request that the TWDB revise the Somervell County steam-electric water demands; and, b) approved an amendment to the 2006 Region G Regional Water Plan that added a water management strategy to meet the increased steam-electric water demands (see Attachment A).

The revised water demands for Somervell County will increase the year 2010 steam-electric water demand projection by approximately 42 percent with smaller increases in future decades; year 2060 water demand projection increases by approximately 25 percent.

Luminant's existing power station obtains its water from Squaw Creek Reservoir supplemented by diversions from Lake Granbury purchased from the Brazos River Authority (BRA). The new recommended water management strategy will use additional water purchased from BRA and diverted near the current diversion point on Lake Granbury. The new diversion will be approximately 76,270 acre-feet per year. The water will be delivered through two new pipelines to the two new power generating units that will operate independently from the existing units.

### **KEY ISSUES**

The Region G Water Planning Group and TWDB received no written or verbal public comments in opposition to either revising the Somervell County steam-electric demands or against the proposed water management strategy to meet those increased water demands.

If the Board approves this regional water plan amendment, staff will be returning to the Board in November requesting approval to incorporate this regional plan amendment into the State Water Plan. As required by our rules (31 TAC § 358.3(a)), TWDB staff will post a 30-day public notice for a public hearing to amend the 2007 State Water Plan. The public hearing would be held in conjunction with the November Board meeting.

### **ANTICIPATED OPPOSITION**

None.

Board Members  
September 15, 2008  
Page 3

**RECOMMENDATION**

Staff recommends approval of the amendment to the 2006 Region G Regional Water Plan for a water management strategy to meet increased Steam-Electric water demands in Somervell County.

This recommendation has been reviewed by legal counsel and is in compliance with applicable statutes and Board rules.

---

Ken Petersen  
General Counsel

Attachment A: Region G cover letter announcement of an amendment to the 2006 Region G Regional Water Plan and the associated request to revise the projected steam electric water demands for Somervell County.

# BRAZOS G

## WATER PLANNING GROUP

### VOTING MEMBERS

Scott Mack, Chair  
 Dale Spurgin, Vice Chair  
 Phillip J. Ford,  
 Secretary/Treasurer  
 Jon H. Burrows  
 Tom Clark  
 Alva Cox  
 Scott Diemann  
 Tim Fambrough  
 Terry Kelley  
 Mike McGuire  
 Tommy O'Brien  
 Gail Peck  
 Sheril Smith  
 Wiley Stem III  
 Mike Sutherland  
 Randy Waelawczyk  
 Kent Watson  
 Kathleen J. Webster  
 Wayne Wilson

### COUNTIES

Bell  
 Bosque  
 Brazos  
 Burleson  
 Callahan  
 Comanche  
 Coryell  
 Eastland  
 Erath  
 Falls  
 Fisher  
 Grimes  
 Hamilton  
 Haskell  
 Hill  
 Hood  
 Johnson  
 Jones  
 Kent  
 Knox  
 Lampasas  
 Lee  
 Limestone  
 McLennan  
 Milam  
 Nolan  
 Palo Pinto  
 Robertson  
 Shackelford  
 Somervell  
 Stephens  
 Stonewall  
 Taylor  
 Throckmorton  
 Washington  
 Williamson  
 Young

BRAZOS RIVER AUTHORITY, Administrative Agent  
 P.O. Box 7555 o Waco, Texas 76714-7555  
 (254) 761-3100 o Fax (254) 761-3204

July 9, 2008

To: Interested Parties

Re: Amendments to the 2006 Brazos G Regional Water Plan related to Steam Electric Water Demands in Somervell County

Brazos G Regional Water Planning Group has recommended to the Texas Water Development Board to amend the Steam-Electric demand in Somervell County as follows:

#### 1. Increased Steam Electric Demands in Somervell County

Due to plans by Luminant Power to develop two new 1,700 MW nuclear generating units adjacent to the existing Comanche Peak Station, consumptive Steam Electric water demands in Somervell County will increase from 23,200 acre-feet per year (acft/yr) to 84,817 acft/yr, an increase of 61,617 acft/yr.

The Brazos G Regional Water Planning Group hereby amends the 2006 Brazos G Regional Water Plan as follows:

#### 1. Recommended Strategy to Supply Increased Steam Electric Demands in Somervell County

Supplies available for Steam Electric uses in Somervell County total 48,810 acft/yr in 2010, and will decrease to 48,710 acft/yr by 2060. Increased Steam Electric water demands will create a need (shortage) for an additional 36,107 acft/yr by 2060. The Brazos G Regional Water Planning Group recommends the water management strategy titled "Somervell County Steam Electric Supply from the Brazos River Authority", as shown in Attachment A, which is the revised plan for Somervell County Steam Electric Demands. Attachment B presents a detailed technical evaluation of the recommended strategy.

## Attachment B



# TEXAS WATER DEVELOPMENT BOARD



James E. Herring, *Chairman*  
Lewis H. McMahan, *Member*  
Edward G. Vaughan, *Member*

J. Kevin Ward  
*Executive Administrator*

Jack Hunt, *Vice Chairman*  
Thomas Weir Labatt III, *Member*  
Joe M. Crutcher, *Member*

**TO:** Board Members

**THROUGH:** Carolyn L. Brittin, Deputy Executive Administrator,  
Water Resources Planning and Information

**FROM:** Temple McKinnon, Team Lead, Water Resources Planning and Information, Regional  
Water Planning

**DATE:** September 15, 2008

**SUBJECT:** Amendment to the 2006 East Texas (Region I) Regional Water Plan

### **ACTION REQUESTED**

Consider approving an amendment to the 2006 Region I Regional Water Plan for revised groundwater availability projections and an associated water management strategy for the City of Diboll.

### **BACKGROUND**

The City of Diboll plans to increase its groundwater supply through the installation of new wells in the Yegua-Jackson Aquifer. The 2006 Region I Regional Water Plan contains a recommended water management strategy for the City of Diboll to purchase treated surface water from the City of Lufkin, which is not feasible at this time. Increasing groundwater supplies is identified as an alternative water management strategy for the City of Diboll. To be eligible to apply for State Water Plan funding, the City of Diboll requested an amendment to the 2006 Region I Regional Water Plan to reclassify the groundwater management strategy of increasing supply from the Yegua-Jackson as a recommended strategy and the purchase of surface water as its alternative strategy.

In addition to the reclassification of an alternative water management strategy, the groundwater availability from the Yegua-Jackson Aquifer is being amended based upon recent local studies by LBG-Guyton. The availability was amended to increase by 1,612 acre-feet per year, from 4,860 acre-feet per year to 6,472 acre-feet per year.

In certain cases, a region may expedite amending its regional water plan by using the 'minor' amendment process allowed under TWDB rules (31 TAC § 357.16). The Region I Water Planning Group initially requested a determination using the minor amendment process, however Texas Water

#### *Our Mission*

*To provide leadership, planning, financial assistance, information and education for the conservation and responsible development of water for Texas.*

P.O. Box 13231 • 1700 N Congress Avenue • Austin, Texas 78711-3231  
Telephone (512) 463-7847 • Fax (512) 475-2053 • 1-800-RELAYTX (for the hearing impaired)  
www.twdb.state.tx.us • info@twdb.state.tx.us

TNRIS – Texas Natural Resources Information System • www.tnris.state.tx.us  
*A Member of the Texas Geographic Information Council (TGIC)*



Development Board (TWDB) staff determined an over-allocation of groundwater availability would result with the data available from the 2006 Region I Regional Water Plan. The City of Diboll and the Region I Water Planning Group were directed to conduct a full amendment, including holding a public hearing, per 31 TAC §357.12. Region I held a public hearing on July 10, 2008 on the proposed amendment to increase groundwater availability in the Yegua-Jackson Aquifer and to reclassify the groundwater management strategy for the City of Diboll as recommended. Following a 30-day public comment period, the Region I Water Planning Group approved the amendment to the 2006 Region I Regional Water Plan at its August 13, 2008 meeting (Attachment A).

### **KEY ISSUES**

The Region I Water Planning Group and TWDB received no written or verbal public comments in opposition to either increasing the modified groundwater availability from the Yegua-Jackson Aquifer or the reclassification of the water management strategy as recommended to increase supply from the Yegua-Jackson Aquifer.

If the Board approves this regional water plan amendment, TWDB staff will be returning to the Board in November requesting approval to incorporate this regional plan amendment into the 2007 State Water Plan. As required by our rules, TWDB staff will post a 30-day public notice for a public hearing to amend the 2007 State Water Plan. The public hearing would be held in conjunction with the November Board meeting.

### **ANTICIPATED OPPOSITION**

None.

### **RECOMMENDATION**

Staff recommends approval of the amendment to the 2006 Region I Regional Water Plan for revised groundwater availability in the Yegua-Jackson Aquifer in Angelina County and a recommended water management strategy to increase supply from the Yegua-Jackson Aquifer for the City of Diboll.

This recommendation has been reviewed by legal counsel and is in compliance with applicable statutes and Board rules.

---

Ken Petersen  
General Counsel

Attachment A: Region I cover letter requesting approval of an amendment to the 2006 Region I Regional Water Plan.



**EAST TEXAS**  
*Regional Water Planning Group*  
*Region I WPG*

Kelley Holcomb, Chair  
P.O. Box 387  
Lufkin, TX 75902  
936-633-7543 (Phone)  
936-632-2564 (Fax)

September 2, 2008

Mr. Kevin Ward  
Executive Director  
Texas Water Development Board  
P.O. Box 13231  
Austin, Texas 78711-3231

Re: Major Amendment to the 2006 East Texas Regional Water Plan

Dear Mr. Ward:

On August 13, 2008, the East Texas Regional Water Planning Group approved an amendment to the regions 2006 Regional Water Plan. This amendment was made at the result of a request by the City of Diboll. Earlier this year, the City of Diboll determined an immediate need to increase their water supply. The 2006 Regional Water Plan recommended strategy for the City of Diboll was to purchase treated surface water from the City of Lufkin, via a proposed project that will not be constructed for a number of years.

In order for the City of Diboll to meet their growing water demands, they choose to secure additional water from groundwater sources. As a part of that change in strategy, the City chose to seek funding from the TWDB. In order to qualify for funding of their proposed new groundwater sources, it was necessary to amend our regional water plan.

The City of Diboll plans to draw water from the Yeuga aquifer which has a current published availability too low to support Diboll's planned production. Amendment of the Yeuga's availability requires a major amendment. The East Texas Regional Water Planning Group has worked with the City of Diboll to accomplish the requirements of a major amendment to the 2006 East Texas Regional Water Plan that demonstrates an increase in available water from the Yeuga aquifer in Angelina County is reasonable.

The East Texas Regional Water Planning Group respectfully requests approval of this proposed major amendment to the 2006 East Texas Regional Water Plan. To that end, please find the enclosed documents for submittal:

1. A copy of the notice for public hearing on the proposed amendment
2. A copy of the publisher's affidavit for the notice
3. A copy of the transcript of the public hearing held on the proposed amendment

Lila Fuller, Administrative Contact  
P. O. Box 635030, Nacogdoches, TX 75963-5030  
Phone: 936-559-2504 Fax: 936-559-2912

4. A copy of the East Texas Regional Water Planning Group's Agenda for their meeting of August 13, 2008 at which the planning group approved the City of Diboll's request for amendment
5. A copy of the 2006 East Texas Regional Water Plan pages revised by the amendment
6. A copy of the LGG-Guyton work demonstrating the increase in available water from the Yeaga aquifer in Angelina County is warranted.

If you have any questions or require additional information please contact myself, or Mr. Gary C. Graham, P.E. at 409-781-1814 or [ggraham@spi-eng.com](mailto:ggraham@spi-eng.com).

Respectfully,



Kelley Holcomb  
Chairman



**Notice of Public Hearing on Proposed Amendments to the 2007 State Water Plan  
(as posted on October 3, 2008)**

---

**Texas Water Development Board**

**Notice of Public Hearing**

The Texas Water Development Board (Board) will conduct a public hearing on November 24, 2008, in Room 170, Stephen F. Austin Building, 1700 North Congress Avenue, Austin, Texas 78701 to receive public comments on proposed amendments to the 2007 State Water Plan, Water for Texas - 2007, in accordance with Tex. Water Code §16.053(r) and 31 TAC §358.3(a). The hearing will be conducted during the Board's regular November 24, 2008 public meeting at 11:00 a.m., in Room 170, Stephen F. Austin Building, 1700 North Congress Avenue, Austin, Texas 78701.

After the public hearing, the Board will consider adopting the proposed amendments at its regular Board meeting on November 24, 2008.

The proposed amendments will incorporate into the State Water Plan two amendments to the 2006 Region G and 2006 Region I Regional Water Plans that have been adopted by the Brazos G (Region G) and East Texas (Region I) Regional Water Planning Groups and approved by the Board. The Region I amendment increases the groundwater availability from the Yegua-Jackson Aquifer in Angelina County to 6,472 acre-feet per year and recommends the water management strategy of installation of additional wells in the Yegua-Jackson Aquifer. The Region G amendment includes a surface water diversion of 76,270 acre-feet per year from Lake Granbury and pipeline as a recommended water management strategy to meet increased steam-electric generation needs for Somervell County.

Interested persons are encouraged to attend the hearing and to present relevant and material comments concerning the proposed amendments. In addition, persons may provide written comments on or before November 17, 2008 to Temple McKinnon, Water Resource Planning and Information, Texas Water Development Board, P.O. Box 13231, Capitol Station, Austin, Texas 78711 or by email to temple.mckinnon@twdb.state.tx.us. Copies of the proposed amendments are available for inspection in Room 439 of the Stephen F. Austin Building from the Water Resources Planning Division, Texas Water Development Board, 1700 North Congress Avenue, Austin, Texas 78701. If you want to view these documents, please call (512) 463-8043 for arrangements to view them. A copy of the proposed amendments will also be available on the Board's web site at <http://www.twdb.state.tx.us>.

The Board offers reasonable accommodations for persons attending meetings, hearings or educational events, as required by the Americans with Disabilities Act. If you require special accommodations, please contact Carla Daws, Public Information Officer, at (512) 463-8167.

Kenneth L. Petersen

General Counsel

Texas Water Development Board

Filed: September 23, 2008

ATTACHMENT E

Addendum No. 1 to the 2007 State Water Plan



**Water for Texas 2007: Addendum #1:**

The following changes have been made to the 2007 State Water Plan as a result of water management strategy substitutions, minor amendments, and major amendments.

This Addendum was approved by the Texas Water Development Board on November 24, 2009

**SUMMARY OF CHANGES:**

**Changes to Appendix 2.1 of the 2007 State Water Plan: Recommended Water Management Strategies and Costs Estimates**

Change	Region	ID	Recommended Water Management Strategy	Total Capital Costs	First Decade Estimated Annual Average Unit Cost (\$/acre-foot/year)	Water Supply Volume (acre-feet per year)						Year 2060 Estimated Annual Average Unit Cost (\$/acre-foot/year)
						2010	2020	2030	2040	2050	2060	
ADDED	G	g.40	PHASE I LAKE WHITNEY WATER SUPPLY PROJECT	\$42,221,700	\$2,554	2,128	2,128	2,128	2,128	2,128	2,128	\$2,554
ADDED	G	g.41	CITY OF CLEBURNE NEW WEST LOOP REUSE LINE	\$7,384,900	\$508	1,680	1,680	1,680	1,680	1,680	1,680	\$508
REMOVED	G	g.27	LAKE PALO PINTO OFF-CHANNEL RESERVOIR	\$19,314,000	\$524				3,110	3,110	3,110	\$524
ADDED	G	g.27a	TURKEY PEAK RESERVOIR	\$46,150,000	\$393	-	8,648	8,648	8,648	8,648	8,648	\$393
ADDED	G	g.36a	SOMERVELL COUNTY WATER SUPPLY PROJECT (SOURCE WATER FROM g.36)	\$35,159,900	\$1,727	1,800	1,800	1,800	1,800	1,800	1,800	na
ADDED	G	g.42	SOMERVELL COUNTY STEAM ELECTRIC SUPPLY FROM BRA (SOURCE WATER FROM g.23)	\$103,915,000	\$154	-	103,717	103,717	103,717	103,717	103,717	\$154
ADDED	I	i.20	ADDITIONAL GROUNDWATER WELLS CITY OF DIBOLL	\$1,413,133	\$223	1,612	1,612	1,612	1,612	1,612	1,612	\$223

### WATER SUPPLY CHANGE

Change	Region		Updated Estimated Water Supply Volume (acre-feet per year)					
			2010	2020	2030	2040	2050	2060
INCREASED	I	Increased annual groundwater availability for the Yegua-Jackson Aquifer from 4,860 to 6,472 af	6,472	6,472	6,472	6,472	6,472	6,472

### WATER DEMAND PROJECTION CHANGE

Change	Region		Projected Water Demand (acre-feet per year)					
			2010	2020	2030	2040	2050	2060
INCREASED	G	Increased Steam-Electric Water Demand Projections for Somervell Co.	23,200	84,817	84,817	84,817	84,817	84,817

Notes: nc = No change  
na = Not applicable/available

## CHANGES TO VOLUME I: *Water for Texas 2007: Highlights of the 2007 State Water Plan*

### Figures:

	UNITS	DECADE					
		2010	2020	2030	2040	2050	2060
Vol I Page 4 : Figure 3 : Projected water demand: State	millions of acre-feet	nc	19.1	nc	20.2	nc	21.7
Vol I Page 5 : Figure 5 : Projected needs: State	millions of acre-feet	nc	nc	6.0	7.0	nc	8.9

### Text:

Vol I Page 2 : Paragraph 2 : change first sentence to:	The demand for water in Texas is expected to increase by 27 percent, from almost 17 million acre-feet of water in 2000 to <u>21.7</u> million acre-feet in 2060.
Vol I Page 2 : Paragraph 6 : change first sentence to:	The planning groups also estimated that the capital costs to design, construct, or implement the 4,500 water management strategies and projects would cost about <u>\$30.9</u> billion.
Vol I Page 5 : Last paragraph : change last sentence to:	If Texas does not implement new water supply projects or management strategies, then homes, businesses, and agricultural enterprises throughout the state are expected to need an additional 3.7 million acre-feet of water in 2010 and an additional <u>8.9</u> million acre-feet in 2060 (Figure 5).
Vol I Page 7 : Paragraph 2 : change second sentence to:	Total capital costs, which primarily consist of up-front money needed to design, construct, or implement strategies, are about <u>\$30.9</u> billion.
Vol I Page 8 : Paragraph 4 : change first sentence to:	Capital costs for recommended water management strategies in the 2007 State Water Plan are about <u>\$30.9</u> billion.
Vol I Page 8 : Paragraph 4 : change second to last sentence to:	These surveys indicate nearly 91 percent of the <u>\$30.9</u> billion in total cost for implementing the 2007 State Water Plan is anticipated to be provided by local project sponsors through traditional financing mechanisms.

## CHANGES TO VOLUME II: *Water for Texas 2007*

### Tables and Figures:

	UNITS	DECADE					
		2010	2020	2030	2040	2050	2060
Vol II Page 50 : Table G.1 : Projected water demand: Steam-electric	acre-feet	209,351	na	na	na	na	303,961
Vol II Page 50 : Table G.1 : Projected water demand: Total	acre-feet	897,308	na	na	na	na	1,212,590
Vol II Page 51 : Figure G.4 : Projected water needs: Region G: Steam-electric	acre-feet	nc	64,317	69,175	83,097	107,145	126,034
Vol II Page 53 : Table G.3 : Projected water needs: Total: Somervell Co.	acre-feet	nc	na	na	na	na	36,460
Vol II Page 53 : Table G.3 : Projected water needs: Total: Region G	acre-feet	nc	na	na	na	na	383,911
Vol II Page 53 : Table G.3 : Projected water needs: Steam-electric: Somervell Co.	acre-feet	nc	na	na	na	na	36,107
Vol II Page 53 : Table G.3 : Projected water needs: Steam-electric: Region G	acre-feet	nc	na	na	na	na	126,034
Vol II Page 64 : Table I.2 : Existing water supplies: Region I: 'Other groundwater'	acre-feet	18,840	na	na	na	na	18,840
Vol II Page 122 : Table 4.2 : Projected water demand: State: Steam-electric	acre-feet	nc	948,197	1,091,829	1,235,787	1,401,350	1,595,173
Vol II Page 122 : Table 4.2 : Projected water demand: State: State Total	acre-feet	nc	19,072,493	19,628,665	20,166,209	20,820,219	21,678,891
Vol II Page 123 : Table 4.3 : Projected water demand: State: Region G	acre-feet	nc	957,561	1,015,307	1,068,545	1,138,695	1,212,590

Vol II	Page 123	: Table 4.3 : Projected water demand: State: State Total	Update to the following:	acre-feet	nc	19,072,493	19,628,665	20,166,209	20,820,219	21,678,891
Vol II	Page 236	: Figure 7.26 : Groundwater Availability: Yegua-Jackson	Update to the following:	acre-feet	26,332	26,332	26,332	26,332	26,332	26,332
Vol II	Page 247	: Table 9.1 : Water user groups with needs: Region G	Update to the following:	count	102	111	116	125	128	132
Vol II	Page 247	: Table 9.1 : Water user groups with needs: State Total	Update to the following:	count	873	1,026	1,098	1,135	1,176	1,199
Vol II	Page 248	: Figure 9.1 : Water supply needs: State: Steam-electric	Update to the following:	acre-feet	nc	195,094	271,909	399,289	519,401	675,191
Vol II	Page 248	: Figure 9.1 : Water supply needs: State: Total	Update to the following:	acre-feet	nc	4,912,306	5,959,811	6,936,936	7,794,714	8,868,687
Vol II	Page 249	: Table 9.3 : Water supply needs: State: Region G	Update to the following:	acre-feet	nc	189,620	220,715	262,400	321,525	383,911
Vol II	Page 249	: Table 9.3 : Water supply needs: State: Total	Update to the following:	acre-feet	nc	4,912,306	5,959,811	6,936,936	7,794,714	8,868,687
Vol II	Page 260	: Figure 10.2 : Total new supply volumes generated by WMSs: Major reserv	Update to the following:	acre-feet	nc	315,311	655,641	687,036	1,056,666	1,077,666
Vol II	Page 260	: Figure 10.2 : Total new supply volumes generated by WMSs: Groundwater	Update to the following:	acre-feet	426,041	564,693	623,993	693,283	738,221	800,821
Vol II	Page 260	: Figure 10.2 : Total new supply volumes generated by WMSs: Reuse	Update to the following:	acre-feet	444,710	789,903	967,273	1,043,113	1,184,121	1,263,259
Vol II	Page 260	: Figure 10.2 : Total new supply volumes generated by WMSs: Desalination	Update to the following:	acre-feet	86,423	103,650	132,292	162,050	202,994	315,015
Vol II	Page 260	: Figure 10.2 : Total new supply volumes generated by WMSs: Total	Update to the following:	acre-feet	3,596,694	5,265,107	6,229,810	6,792,444	8,174,175	9,045,169
Vol II	Page 265	: Table 10.3 New supplies from all recommended WMSs: Region G	Update to the following:	acre-feet						745,378
Vol II	Page 265	: Table 10.3 New supplies from all recommended WMSs: Region I	Update to the following:	acre-feet						326,368
Vol II	Page 265	: Table 10.3 New supplies from all recommended WMSs: Total	Update to the following:	acre-feet						9,045,169
Vol II	Page 265	: Table 10.3 New supplies from surface water: Major Reservoirs: Region	Update to the following:	acre-feet						42,058
Vol II	Page 265	: Table 10.3 New supplies from surface water WMSs: Total	Update to the following:	acre-feet						1,077,666
Vol II	Page 265	: Table 10.3 Estimated capital cost: new major reservoirs: Region G	Update to the following:	millions of dollars						\$115.90
Vol II	Page 266	: Table 10.3 Estimated capital cost: new major reservoirs: Total	Update to the following:	millions of dollars						\$4,930.89
Vol II	Page 270	: Table 10.4 New supplies from all recommended WMSs: Region G	Update to the following:	acre-feet						745,378
Vol II	Page 270	: Table 10.4 New supplies from all recommended WMSs: Region I	Update to the following:	acre-feet						326,368
Vol II	Page 270	: Table 10.4 New supplies from all recommended WMSs: Total	Update to the following:	acre-feet						9,045,169
Vol II	Page 270	: Table 10.4 New supplies from groundwater WMSs: Region I	Update to the following:	acre-feet						23,201
Vol II	Page 270	: Table 10.4 New supplies from groundwater WMSs: Total	Update to the following:	acre-feet						800,821
Vol II	Page 270	: Table 10.4 Estimated capital cost: new groundwater supplies: Region I	Update to the following:	millions of dollars						\$33.77
Vol II	Page 270	: Table 10.4 Estimated capital cost: new groundwater supplies: Total	Update to the following:	millions of dollars						\$2,331.40
Vol II	Page 271	: Table 10.5 New supplies from all recommended WMSs: Region G	Update to the following:	acre-feet						745,378
Vol II	Page 271	: Table 10.5 New supplies from all recommended WMSs: Region I	Update to the following:	acre-feet						326,368
Vol II	Page 271	: Table 10.5 New supplies from all recommended WMSs: Total	Update to the following:	acre-feet						9,045,169
Vol II	Page 271	: Table 10.5 New supplies from reuse: Region G	Update to the following:	acre-feet						83,408
Vol II	Page 271	: Table 10.5 New supplies from reuse: Total	Update to the following:	acre-feet						1,263,259
Vol II	Page 271	: Table 10.5 Estimated capital cost: reuse: Region G	Update to the following:	millions of dollars						\$111.06
Vol II	Page 271	: Table 10.5 Estimated capital cost: reuse: Total	Update to the following:	millions of dollars						\$3,972.29
Vol II	Page 273	: Table 10.6 New supplies from all recommended WMSs: Region G	Update to the following:	acre-feet						745,378
Vol II	Page 273	: Table 10.6 New supplies from all recommended WMSs: Region I	Update to the following:	acre-feet						326,368
Vol II	Page 273	: Table 10.6 New supplies from all recommended WMSs: Total	Update to the following:	acre-feet						9,045,169
Vol II	Page 273	: Table 10.6 New supplies from brackish desalination: Region G	Update to the following:	acre-feet						2,128
Vol II	Page 273	: Table 10.6 New supplies from brackish desalination: Total	Update to the following:	acre-feet						176,901
Vol II	Page 273	: Table 10.6 Estimated capital cost: brackish desalination: Region G	Update to the following:	millions of dollars						\$42.22
Vol II	Page 273	: Table 10.6 Estimated capital cost: brackish desalination: Total	Update to the following:	millions of dollars						\$1,218.88
Vol II	Page 279	: Table 11.1 Capital costs for municipal WMSs: Region G	Update to the following:	millions of dollars						\$1,148.64
Vol II	Page 279	: Table 11.1 Capital costs for municipal WMSs: Region I	Update to the following:	millions of dollars						\$524.56
Vol II	Page 279	: Table 11.1 Capital costs for municipal WMSs: Region Total	Update to the following:	millions of dollars						\$29,392.53

**Text:**

Vol I	Page 2	Paragraph 3 : change first sentence to:	The demand for water in Texas is expected to increase by 27 percent, from almost 17 million acre-feet of water in 2000 to <u>21.7</u> million acre-feet in 2060.
Vol I	Page 2	Paragraph 7 : change first sentence to:	The planning groups also estimated that the capital costs to design, construct, or implement the 4,500 water management strategies and projects would cost about <u>\$30.9</u> billion.
Vol I	Page 49	Paragraph 2 : change third sentence to:	By 2060, the total water demands for the region are projected to increase <u>35</u> percent, from <u>897,308</u> acre-feet in 2010 to <u>1,212,590</u> acre-feet (Figure G.3).
Vol I	Page 49	Plan Highlights : change first bullet to:	Total capital cost <u>\$1.3</u> billion
Vol I	Page 49	Plan Highlights : change second bullet to:	<u>Three</u> new major reservoirs: Cedar Ridge, Brushy Creek, <u>and</u> Turkey Peak
Vol I	Page 50	Paragraph 1 : change first full sentence to:	Manufacturing and steam-electric power generation demands are also projected to grow significantly from 2010 to 2060, by 61 percent (from 19,787 acre-feet to 31,942 acre-feet) and 45 percent (from <u>209,351</u> acre-feet to <u>303,961</u> acre-feet),
Vol I	Page 50	Paragraph 3 : change fourth sentence to:	By 2060, overall water needs are expected to increase to <u>383,911</u> acre-feet per year, with almost half of this need associated with municipal users.
Vol I	Page 52	Paragraph 1 : change second sentence to:	In all, the strategies would provide <u>745,378</u> acre-feet of additional water supply by the year 2060 (Figure G.5) at a total capital cost of <u>\$1,291,840,534</u> (Appendix 2.1).
Vol I	Page 62	Paragraph 1 : change second sentence to:	Groundwater from the Gulf Coast, Carrizo-Wilcox, and other aquifers accounts for <u>224,250</u> acre-feet in 2010, declining to <u>223,820</u> acre-feet in 2060.
Vol I	Page 62	Paragraph 3 : change first sentence to:	Water management strategies recommended for the East Texas Regional Water Plan result in <u>326,368</u> acre-feet of additional water supply to meet all projected needs by the year 2060 (Figure I.5) at a total capital cost of <u>\$614,847,836</u> (Appendix 2.1).
Vol I	Page 66	Bullets : change third bullet to:	Expansion of local groundwater use throughout region would provide <u>23,201</u> acre-feet per year—Implementation by: 2010; Capital Cost: <u>\$33 million</u> .
Vol I	Page 121	Last paragraph : change last sentence to:	Although the population is projected to more than double between 2000 and 2060, water demand in Texas will increase by only 27 percent, from almost 17 million acre-feet of water in 2000 to a projected demand of <u>21.7</u> million acre-feet of water in 2060 (Table 4.2, Figure 4.4).
Vol I	Page 246	Paragraph 2 : change second sentence to:	By 2030, this figure rises to nearly <u>6.0</u> million acre-feet, and by 2060 it increases to <u>8.9</u> million acre-feet. In 2060, slightly more than 85 percent of the state's population is projected to have water needs.
Vol I	Page 265	Last paragraph : First sentence	Planning groups recommended <u>15</u> new major reservoirs that would generate approximately 1.1 million acre-feet per year by 2060 (Table 10.3, Figure 10.3).