



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 25, 2008

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	\$521				3,110	3,110	3,110	\$521
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	Update to the following:	millions of acre-feet	nc	19.1	nc	20.2	nc	21.7
Vol I Page 5 : Figure 5 : Projected needs: State	Update to the following:	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	Update to the following:	acre-feet	209,351	na	na	na	na	303,961
Vol II Page 50 : Table G.1 : Projected water demand: Total	Update to the following:	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	Update to the following:	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.	Update to the following:	acre-feet	nc	na	na	na	na	36,460
Vol II Page 53 : Table G.3 : Projected water needs: Total: Region G	Update to the following:	acre-feet	nc	na	na	na	na	383,911
Vol II Page 53 : Table G.3 : Projected water needs: Steam-electric: Somervell Co.	Update to the following:	acre-feet	nc	na	na	na	na	36,107
Vol II Page 53 : Table G.3 : Projected water needs: Steam-electric: Region G	Update to the following:	acre-feet	nc	na	na	na	na	126,034
Vol II Page 64 : Table I.2 : Existing water supplies: Region I: 'Other groundwater'	Update to the following:	acre-feet	18,840	na	na	na	na	18,840
Vol II Page 122 : Table 4.2 : Projected water demand: State: Steam-electric	Update to the following:	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	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 123 : Table 4.3 : Projected water demand: State: Region G	Update to the following:	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 <u>45</u> 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 1.5) 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).