

DRAFT
 Summary of Amendment to the 2012 State Water Plan
 (July 2014)

Change	Description	Region	Recommended Water Management Strategy	Total Capital Costs	Water Supply Volume (acre-feet per year)					
					2010	2020	2030	2040	2050	2060
Region C Minor Amendment	Revise water management strategy	C	Municipal Conservation Basic - City of Bedford	\$77,308,705	274	1,270	2,231	2,357	2,496	2,641
	Revise water management strategy	C	Municipal Conservation Basic - City of Fort Worth	\$65,282,908	4,871	23,428	31,998	41,888	54,191	70,134
Region L Substitution	Replace water management strategy	L	GBRA Lower Basin Storage Project	\$77,876,000	0	57,674	57,674	57,674	57,674	57,674



Water for Texas 2012: Amendment #4:

The following changes are proposed to the 2012 State Water Plan as a result of a minor amendment to the Region C 2011

Regional Water Plan and a strategy substitution in the Region L 2011 Regional Water Plan.

This amendment will be considered by the Texas Water Development Board on July 2, 2015.

SUMMARY OF CHANGES:

Changes to Appendix A.2 of the 2012 State Water Plan: Recommended Water Management Strategies and Costs Estimates											
Change	Region	Recommended Water Management Strategy	Total Capital Costs	First Decade Estimated Annual Average Unit Cost (\$/acre- foot/year)	Water Supply Volume (acre-feet per year)						Estimated Annual Average Unit Cost (\$/acre- foot/year)
					2010	2020	2030	2040	2050	2060	
REVISED	C	Municipal conservation - basic	\$143,743,188	\$200	41,967	111,049	155,586	197,325	242,667	295,461	\$85
REVISED	L	GBRA lower basin storage	\$77,876,000	\$113	0	57,674	57,674	57,674	57,674	57,674	\$14



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CHANGES TO WATER FOR TEXAS 2012 STATE WATER PLAN

Text:	
Page 4 : Paragraph 5 : Change first sentence to:	The strategies recommended by regional water planning groups would provide, if implemented, <u>9.3</u> million acre-feet per year in additional water supplies by 2060 (Figure ES.4).
Page 5 : Paragraph 4 : Change first sentence to:	The estimated total capital cost of the 2012 State Water Plan, representing the capital costs of all water management strategies recommended in the 2011 regional water plans, is <u>\$55.6</u> billion.
Page 44 : Paragraph 2 : Change second bullet to:	Recommended water management strategy volume in 2060 - <u>2,391,334</u> acre-feet per year
Page 44 : Paragraph 2 : Change third bullet to:	Total capital cost - <u>\$21.6</u> billion
Page 44 : Paragraph 2 : Change fourth bullet to:	Conservation accounts for <u>13.5</u> percent of 2060 strategy volumes
Page 46 : Paragraph 4 : Change second sentence to:	In all, the strategies provide an additional 2.4 million acre-feet by 2060 (Figures C.3 and C.4), with a total capital cost of <u>\$21.6</u> billion (Appendix A) if all the recommended water management strategies are implemented.
Page 46 : Paragraph 5 : Change first sentence to:	Conservation strategies account for approximately <u>13.5</u> percent (<u>321,741</u> acre-feet) of the total volume of water associated with all recommended strategies.
Page 98 : Paragraph 2 : Change second bullet to:	Recommended water management strategy volume in 2060 - <u>895,043</u> acre-feet per year
Page 98 : Paragraph 2 : Change third bullet to:	Total capital cost - <u>\$8.9</u> billion
Page 98 : Paragraph 2 : Change fourth bullet to:	Conservation accounts for <u>9</u> percent of 2060 strategy volumes
Page 100 : Paragraph 4 : Change second sentence to:	Implementing all the water management strategies recommended in the Region L plan would result in <u>895,043</u> acre-feet of additional water supplies in 2060 at a total capital cost of <u>\$8.9</u> billion (Appendix A).
Page 100 : Paragraph 5 : Change first sentence to:	Conservation strategies account for <u>9</u> percent of the total amount of water that would be provided by the region's recommended water management strategies.
Page 187 : Paragraph 1 : Change first sentence to:	The regional planning groups recommended 569 unique water projects designed to meet needs for additional water supplies for Texas during drought, resulting in a total, if implemented, of <u>9.3</u> million acre-feet per year in additional water supplies by 2060.
Page 189 : Paragraph 4 : Change first sentence to:	To meet the needs for water during a repeat of the drought of record, regional water planning groups evaluated an recommended water management strategies that would account for an additional <u>9.3</u> million acre-feet per year of water by 2060 if all are implemented (Tables 7.1 and 7.2).
Page 190 : Paragraph 3 : Change second and third sentence to:	Surface water strategies, excluding desalination and non-traditional strategies, compose about <u>50</u> percent of the recommended volume of new water, compared to 9 percent from groundwater strategies in the 2012 State Water Plan. Surface water management strategies recommended by the regional planning groups total in excess of <u>4.6</u> million acre-feet per year by 2060.
Page 190 : Paragraph 4 : Change third sentence to:	These new reservoirs would produce <u>1.6</u> million acre-feet per year in 2060 if all are built, representing <u>17.2</u> percent of the total volume of all recommended strategies for 2060 combined (Figure 7.2).
Page 198 : Paragraph 1 : Change first sentence to:	As discussed further in Chapter 9 (Financing Needs), the total capital costs of the 2012 State Water Plan - representing all of the water management strategies recommended by the regional water planning groups - is <u>\$55.6</u> billion.

Note : No further corrections to Chapter 9 are captured since the chapter speaks to financing needs at the time the 2012 State Water Plan was initially published.



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Tables and Figures:				DECADE						TOTAL
			UNITS	2010	2020	2030	2040	2050	2060	
Page 5 :	Figure ES.4. : Water Plan (AFY)	Water Supplies from Water Management Strategies in the State	Update to the following: acre-feet per year	2,049,353	4,744,059	6,068,301	6,758,523	8,153,657	9,254,512	
Page 7 :	Figure ES.6. : Control (Billions of Dollars)	Total Capital Costs for Water supplies, Water Treatment and Distribution, Wastewater Treatment and Collection, and Flood	Update to the following: billions of dollars	Capital costs of water management strategies recommended in 2012 State Water Plan \$55.6. Total capital costs: \$233.7 billion						
Page 49 :	Figure C.3 : Volumes for 2010-2060 (AFY)	Recommended Water Management Strategy Water Supply	Update to the following: <u>Municipal Conservation</u>	46,723	120,911	169,493	214,235	261,491	316,002	
Page 49 :	Figure C.4 : Share of Supply.	2060 Recommended Water Management Strategies - Relative	Update to the following: percent	Municipal Conservation <u>13.2%</u> ; Other Conservation 0.1%; Irrigation Conservation <u>0.1%</u> ; New Major Reservoir <u>30.4%</u> ; Other Surface Water <u>44.5%</u> ; Groundwater 0.2%; Reuse <u>11.4%</u>						
Page 103 :	Figure L.3 : Volumes for 2010-2060 (AFY)	Recommended Water Management Strategy Water Supply	Update to the following: <u>new major reservoir</u>	0	141,800	214,731	214,731	214,731	214,731	
Page 103 :	Figure L.4 : Share of Supply.	2060 Recommended Water Management Strategies - Relative	Update to the following: percent	Municipal Conservation <u>8.1%</u> ; Irrigation Conservation 0.8%; Other Conservation 0.3%; <u>New Major Reservoir 24.0%</u> ; Other Surface Water <u>4.4%</u> ; Groundwater <u>26.2%</u> ; Reuse <u>5.2%</u> ; Groundwater Desalination <u>4.7%</u> ; ASR <u>5.7%</u> ; Seawater <u>Desalination 20.6%</u>						
Page 188 :	Table 7.1. : Region (AFY)	Recommended Water Management Strategy Supply Volumes by	Update to the following:	Region C acre-feet per year						
				79,898	688,673	1,148,938	1,324,470	2,070,986	2,391,334	
				Region L acre-feet per year						
				188,297	533,677	671,911	700,858	760,781	895,043	
				Total acre-feet per year						
				2,049,353	4,744,059	6,068,301	6,758,523	8,153,657	9,254,512	
Page 189 :	Table 7.2. : Type of Strategy (AFY)	Recommended Water Management Strategy Supply Volumes by	Update to the following:	Municipal Conservation						
				137,847	278,894	371,501	458,099	564,723	678,393	
				New major reservoir						
				19,672	548,165	1,005,896	1,035,860	1,318,078	1,587,176	
				Total Supply Volume acre-feet per year						
				2,049,353	4,744,059	6,068,301	6,758,523	8,153,657	9,254,512	

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Tables and Figures (cont.):

			UNITS	DECADE						TOTAL	
				2010	2020	2030	2040	2050	2060		
Page 190 :	Table 7.3. : Region (AFY)	Supply Volumes from Recommended Conservation Strategies by	Update to the following:	Region C	46,780	121,984	172,831	218,755	266,638	321,741	
				Total	766,658	1,413,630	1,738,653	1,892,382	2,049,940	2,207,290	
Page 191 :	Figure 7.2. : in 2060.	Relative Volumes of Recommended Water Management Strategies	Update to the following:	percent	Groundwater 8.7%; Municipal Conservation 7.3%; Groundwater Desalination 2.0%; Conjunctive Use 1.5%; Seawater Desalination 2.7%; Aquifer Storage and Recovery 0.9%; Other Conservation 0.3%; Brush Control 0.2%; Weather Modification 0.2%; Surface Water Desalination <0.1%; Other Surface Water 33.0%; Irrigation Conservation 16.3%; New Major Reservoir 17.2%; Reuse 9.9%						
Page 195 :	Table 7.5. : Region (Millions of Dollars)	Recommended Water Management Strategy Capital Costs by	Update to the following:	Region C Millions of Dollars	\$9,922	\$4,119	\$3,891	\$928	\$17	\$2,747	\$21,625
				Region L Millions of Dollars	\$1,022	\$4,333	\$2,287	\$2	\$12	\$1,294	\$8,950
				Total Millions of Dollars	\$22,097	\$17,025	\$7,558	\$3,127	\$1,094	\$4,702	\$55,604
Page 195 :	Figure 7.4. : Supplies by Region (AFY)	Existing Supplies and Recommended Water Management Strategy	Update to the following:	Region C acre-feet per year	Water Management Strategy Supplies 2,391,334						
				Region L acre-feet per year	Water Management Strategy Supplies 895,043						
Page 197 :	Figure 7.5. : (AFY)	Water Needs, Needs Met by Plans, and Strategy Supply by Region	Update to the following:	Region C acre-feet per year	Water Management Strategy Supplies 2,391,334						
				Region L acre-feet per year	Water Management Strategy Supplies 895,043						

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