

Summary of Amendment to the 2012 State Water Plan
 (January 2015)

| Change | Description | Region | Recommended Water Management Strategy | Total Capital Costs | Water Supply Volume (acre-feet per year) | | | | | |
|--------------------------|---|--------|--|---------------------|--|---------|---------|---------|---------|---------|
| | | | | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
| Region H Minor Amendment | <u>Revise</u> water management strategy | H | Contract with Brazosport Water Authority | \$36,889,963 | 7,750 | 10,886 | 10,886 | 10,886 | 10,886 | 10,886 |
| Region H Minor Amendment | <u>Add</u> water management strategy | H | BWA brackish groundwater plant | \$30,570,395 | 0 | 3,136 | 3,136 | 3,136 | 3,136 | 3,136 |
| Region H Minor Amendment | <u>Add</u> water management strategy | H | BWA WTP expansion | \$14,359,419 | 0 | 8,400 | 8,400 | 8,400 | 8,400 | 8,400 |
| Region L Minor Amendment | <u>Add</u> water management strategy | L | GBRA Integrated Water Power Project | \$1,282,426,000 | 0 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 |



Water for Texas 2012: Amendment #2:

The following changes were made to the 2012 State Water Plan as a result of minor amendments in Region H and Region L. This amendment was approved by the Texas Water Development Board on January 29, 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 | H | CONTRACT WITH BRAZOSPORT WATER AUTHORITY | \$36,889,963 | \$193 | 7,750 | 10,886 | 10,886 | 10,886 | 10,886 | 10,886 | \$94 |
| ADDED | H | BWA BRACKISH GROUNDWATER PLANT | \$30,570,395 | \$1,829 | - | 3,136 | 3,136 | 3,136 | 3,136 | 3,136 | \$1,013 |
| ADDED | H | BWA WTP EXPANSION | \$14,359,419 | \$471 | - | 8,400 | 8,400 | 8,400 | 8,400 | 8,400 | \$328 |
| ADDED | L | GBRA INTEGRATED WATER POWER PROJECT | \$1,282,426,000 | \$2,290 | - | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | \$1,172 |



Water for Texas 2012: Amendment #2:

The following changes were made to the 2012 State Water Plan as a result of minor amendments in Region H and Region L. This amendment was approved by the Texas Water Development Board on January 29, 2015.

CHANGES TO WATER FOR TEXAS 2012 STATE WATER PLAN

| Text: | |
|---|---|
| Page 4 : Paragraph 4 : Change second sentence to: | These strategies included <u>566</u> unique water supply projects designed to meet needs for additional water supplies for Texas during drought (this figure is lower than presented in previous plans because it does not separately count each entity participating in a given project.) |
| Page 4 : Paragraph 5 : Change first sentence to: | The strategies recommended by regional water planning groups would provide, if implemented, <u>9.1</u> million acre-feet per year in additional water supplies by 2060 (Figure ES.4). |
| Page 5 : Paragraph 1 : Change first sentence to: | About 34 percent of the volume of these strategies would come from conservation and reuse, about <u>16</u> percent from new major reservoirs, and about <u>33</u> percent from other surface water supplies. |
| 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</u> billion. |
| Page 74 : Paragraph 2 : Change second bullet to: | Recommended water management strategy volume in 2060 - <u>1,504,316</u> acre-feet per year |
| Page 74 : Paragraph 2 : Change third bullet to: | Total capital cost - <u>\$12.1</u> billion |
| Page 76 : Paragraph 4 : Change first sentence to: | The Region H Planning Group's recommended water management strategies would provide <u>1,504,316</u> acre-feet of additional water supply to meet all projected needs by the year 2060 (Figures H.3 and H.4) at a total capital cost of <u>\$12.1</u> billion (Appendix A). |
| Page 98 : Paragraph 2 : Change second bullet to: | Recommended water management strategy volume in 2060 - <u>865,738</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>10</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>865,738</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>10</u> percent of the total amount of water that would be provided by the region's recommended water management strategies. |
| Page 102 : Paragraph 1 : Add bullet: | GBRA Integrated Water Power Project would provide up to 100,000 acre-feet per year of water in 2060 with a capital cost of \$1.3 billion. |
| Page 187 : Paragraph 1 : Change first sentence to: | The regional planning groups recommended <u>566</u> unique water projects designed to meet needs for additional water supplies for Texas during drought, resulting in a total, if implemented, of <u>9.1</u> million acre-feet per year in additional water supplies by 2060. |
| Page 189 : Paragraph 4 : Change paragraph 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>9.1</u> million acre-feet per year of water by 2060 if all are implemented (Tables 7.1 and 7.2). These strategies included <u>566</u> unique water supply projects designed to meet needs for additional water supplies for Texas during drought (this figure is lower than presented in previous plans because it does not separately count each entity participating in a given project.) |
| Page 196 : Paragraph 7 : Change first sentence to: | Desalination, the process of removing salt from seawater or brackish water, is expected to produce nearly <u>441,136</u> acre-feet potable water by 2060. |

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.

Texas Water Development Board

Water for Texas 2012: Amendment #2:

The following changes were made to the 2012 State Water Plan as a result of minor amendments in Region H and Region L. This amendment was approved by the Texas Water Development Board on January 29, 2015.

CHANGES TO WATER FOR TEXAS 2012 STATE WATER PLAN

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 | 4,614,176 | 5,962,915 | 6,649,551 | 8,040,426 | 9,135,975 |
| Page 7 : | Figure ES.6. : (Billions of Dollars) | Total Capital Costs for Water supplies, Water Treatment and Distribution, Wastewater Treatment and Collection, and Flood Control Update to the following: | billions of dollars | Capital costs of water management strategies recommended in 2012 State Water Plan \$54.7 | | | | | |
| Page 7 : | Figure ES.6. : (Billions of Dollars) | Total Capital Costs for Water supplies, Water Treatment and Distribution, Wastewater Treatment and Collection, and Flood Control Update to the following: | billions of dollars | Total capital costs: \$233B | | | | | |
| Page 79 : | Figure H.3 : for 2010-2060 (AFY) | Recommended Water Management Strategy Water Supply Volumes Add: | groundwater desalination | 0 | 3,136 | 3,136 | 3,136 | 3,136 | 3,136 |
| Page 79 : | Figure H.4 : of Supply. | 2060 Recommended Water Management Strategies - Relative Share Add: | percent | Groundwater Desalination 0.2% | | | | | |
| Page 103 : | Figure L.3. : for 2010-2060 (AFY) | Recommended Water Management Strategy Water Supply Volumes Update to the following: | seawater desalination | 0 | 100,000 | 100,000 | 100,000 | 100,000 | 184,012 |
| Page 103 : | Figure L.4. : of Supply. | 2060 Recommended Water Management Strategies - Relative Share Update to the following: | percent | Groundwater Desalination 4.9%; Aquifer Storage and Recovery 5.9%; Seawater Desalination 21.2%; Municipal Conservation 8.4%; Irrigation Conservation 0.8%; Other Conservation 0.3%; New Major Reservoir 21.4%; Other Surface Water 4.6%; Groundwater 27.1%; Reuse 5.4% | | | | | |
| Page 188 : | Table 7.1. : Region (AFY) | Recommended Water Management Strategy Supply Volumes by Region (AFY) Update to the following: | Region H acre-feet per year Region L acre-feet per year Total acre-feet per year | 378,759 188,297 2,049,353 | 625,562 476,003 4,614,176 | 867,116 642,606 5,962,915 | 1,043,640 671,553 6,649,551 | 1,205,146 731,476 8,040,426 | 1,504,316 865,738 9,135,975 |
| Page 189 : | Table 7.2. : of Strategy (AFY) | Recommended Water Management Strategy Supply Volumes by Type Update to the following: | Groundwater Desalination acre-feet per year Seawater Desalination acre-feet per year Total Supply Volume acre-feet per year | 56,553 125 2,049,353 | 84,292 128,125 4,614,176 | 106,571 128,143 5,962,915 | 136,414 134,049 6,649,551 | 166,219 168,021 8,040,426 | 184,704 253,514 9,135,975 |

CHANGES TO WATER FOR TEXAS 2012 STATE WATER PLAN (cont.)

Tables and Figures:

| | | | | | | | | | | | |
|------------|--|--|------------------------------|--|----------|---------|---------|---------|---------|----------|--|
| Page 191 : | Figure 7.2. : 2060. | Relative Volumes of Recommended Water Management Strategies in Update to the following: | percent | Groundwater <u>8.8%</u> ; Municipal Conservation <u>7.1%</u> ; Groundwater Desalination 2.0%; Conjunctive Use 1.5%; Seawater Desalination <u>2.8%</u> ; 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 <u>33.4%</u> ; Irrigation Conservation <u>16.4%</u> ; New Major Reservoir <u>16.4%</u> ; Reuse <u>10.0%</u> | | | | | | | |
| Page 193 : | Table 7.4. : Projects | Recommended Ground and Surface Water Conveyance and Transfer Add: | | ID 45; Guadalupe-Blanco River Authority Integrated Water Power Project; Conveyance from Gulf of Mexico Sea Water to Gonzales County | | | | | | | |
| Page 195 : | Table 7.5. : (Millions of Dollars) | Recommended Water Management Strategy Capital Costs by Region Update to the following: | Region H Millions of Dollars | \$4,710 | \$4,982 | \$287 | \$1,135 | \$458 | \$506 | \$12,078 | |
| | | | Region L Millions of Dollars | \$1,022 | \$4,255 | \$2,321 | \$2 | \$12 | \$1,294 | \$8,906 | |
| | | | Total Millions of Dollars | \$22,097 | \$16,140 | \$7,592 | \$3,127 | \$1,095 | \$4,702 | \$54,752 | |
| Page 195 : | Figure 7.4. : Supplies by Region (AFY) | Existing Supplies and Recommended Water Management Strategy Update to the following: | Region H acre-feet per year | Water Management Strategy Supplies <u>1,504,316</u> | | | | | | | |
| | | | Region L acre-feet per year | Water Management Strategy Supplies <u>865,738</u> | | | | | | | |
| Page 197 : | Figure 7.5. : (AFY) | Water Needs, Needs Met by Plans, and Strategy Supply by Region Update to the following: | Region H acre-feet per year | Water Management Strategy Supplies <u>1,504,316</u> | | | | | | | |
| | | | Region L acre-feet per year | Water Management Strategy Supplies <u>865,738</u> | | | | | | | |

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.