

Appendix 5B-C

Recommended Water Management Strategies by WUG DB17 Report

This appendix includes a copy of the Water User Group Recommended Water Management Strategy data from the TWDB Data Web Interface known as the DB17. The summary is divided by Water User Group.

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Recommended Water User Group (WUG) Water Management Strategies (WMS)

WUG Entity Primary Region: I

Water Management Strategy Supplies

| WUG Entity Name | WMS Sponsor Region | WMS Name | Source Name | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 | Unit Cost 2020 | Unit Cost 2070 |
|--|--------------------|---|--|-------|-------|-------|-------|-------|-------|----------------|----------------|
| ALTO | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 428 | 428 | 428 | 428 | 85 | N/A | \$333 |
| ALTO RURAL WSC | I | ALRU ENHANCED PUBLIC AND SCHOOL EDUCATION | DEMAND REDUCTION | 0 | 0 | 5 | 7 | 9 | 11 | N/A | \$489 |
| ALTO RURAL WSC | I | CHE-ALT - ALTO RURAL WSC | I CARRIZO-WILCOX AQUIFER CHEROKEE COUNTY | 0 | 0 | 0 | 61 | 130 | 250 | N/A | \$13 |
| ARP | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 428 | 428 | 428 | 428 | 85 | N/A | \$13 |
| BEAUMONT | I | BEAU ENHANCED PUBLIC AND SCHOOL EDUCATION | DEMAND REDUCTION | 0 | 413 | 540 | 688 | 859 | 1,055 | N/A | \$57 |
| BEAUMONT | I | BEAU ENHANCED WATER LOSS CONTROL PROGRAM | DEMAND REDUCTION | 0 | 2,670 | 4,477 | 6,015 | 7,353 | 8,516 | N/A | \$260 |
| BEAUMONT | I | BEAU WATER CONSERVATION PRICING | DEMAND REDUCTION | 0 | 155 | 324 | 344 | 368 | 395 | N/A | \$0 |
| BETHEL-ASH WSC | C | CONSERVATION - BETHEL-ASH WSC | DEMAND REDUCTION | 1 | 2 | 3 | 4 | 5 | 7 | \$0 | \$0 |
| BETHEL-ASH WSC | C | CONSERVATION, WATER LOSS CONTROL - BETHEL-ASH WSC | DEMAND REDUCTION | 1 | 1 | 0 | 0 | 0 | 0 | \$397 | N/A |
| BULLARD | I | BULL ENHANCED PUBLIC AND SCHOOL EDUCATION | DEMAND REDUCTION | 4 | 7 | 10 | 14 | 19 | 24 | \$489 | \$489 |
| BULLARD | I | BULL WATER CONSERVATION PRICING | DEMAND REDUCTION | 7 | 17 | 20 | 24 | 28 | 32 | \$0 | \$0 |
| BULLARD | I | TYL-PAL-EXISTING SURPLUS FOR TYLER | I PALESTINE LAKE/RESERVOIR | 49 | 215 | 385 | 570 | 760 | 955 | \$896 | \$896 |
| CENTER | I | CENT-REU-CITY OF CENTER REUSE | I CENTER LAKE/RESERVOIR | 1,120 | 1,120 | 1,120 | 1,120 | 1,120 | 1,120 | \$1493 | \$479 |
| CENTER | I | CENT-TOL - TOLEDO BEND PIPELINE | I TOLEDO BEND LAKE/RESERVOIR | 0 | 0 | 2,242 | 2,242 | 2,242 | 2,242 | N/A | \$865 |
| CHANDLER | I | CHAN ENHANCED PUBLIC AND SCHOOL EDUCATION | DEMAND REDUCTION | 0 | 0 | 0 | 6 | 9 | 12 | N/A | \$489 |
| CHANDLER | I | CHAN WATER CONSERVATION PRICING | DEMAND REDUCTION | 0 | 0 | 0 | 10 | 21 | 24 | N/A | \$0 |
| CHANDLER | I | TYL-PAL-EXISTING SURPLUS FOR TYLER | I PALESTINE LAKE/RESERVOIR | 0 | 0 | 0 | 350 | 350 | 350 | N/A | \$411 |
| COUNTY-OTHER, CHEROKEE | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 3,848 | 3,848 | 3,848 | 3,848 | 767 | N/A | \$13 |
| COUNTY-OTHER, HENDERSON | C | CONSERVATION - HENDERSON COUNTY | DEMAND REDUCTION | 1 | 2 | 2 | 3 | 3 | 3 | \$0 | \$0 |
| COUNTY-OTHER, HENDERSON | C | CONSERVATION, WATER LOSS CONTROL - HENDERSON | DEMAND REDUCTION | 2 | 2 | 0 | 0 | 0 | 0 | \$456 | N/A |
| COUNTY-OTHER, HENDERSON | C | DWU - MAIN STEM REUSE | C TRINITY INDIRECT REUSE | 0 | 0 | 0 | 0 | 11 | 0 | N/A | N/A |
| COUNTY-OTHER, HENDERSON | C | SULPHUR BASIN SUPPLY | D MARVIN NICHOLS LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 14 | N/A | \$1131 |
| COUNTY-OTHER, HENDERSON | C | SULPHUR BASIN SUPPLY | D WRIGHT PATMAN LAKE/RESERVOIR | 0 | 0 | 0 | 4 | 5 | 5 | N/A | \$1131 |
| COUNTY-OTHER, HENDERSON | C | TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS | C TRINITY INDIRECT REUSE | 0 | 5 | 8 | 3 | 3 | 2 | N/A | \$239 |
| COUNTY-OTHER, HENDERSON | C | TRWD - ADDITIONAL CEDAR CREEK AND RICHLAND-CHAMBERS | C TRWD LAKE/RESERVOIR SYSTEM | 0 | 1 | 1 | 1 | 1 | 1 | N/A | \$239 |
| COUNTY-OTHER, HENDERSON | C | TRWD - CEDAR CREEK WETLANDS | C TRINITY INDIRECT REUSE | 0 | 8 | 13 | 16 | 10 | 6 | N/A | \$114 |
| COUNTY-OTHER, HENDERSON | C | TRWD - TEHUACANA | C TEHUACANA LAKE/RESERVOIR | 0 | 0 | 6 | 8 | 3 | 3 | N/A | \$149 |
| COUNTY-OTHER, JEFFERSON | I | JEFF-CTR CONTRACT EXPANSION | I SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 0 | 0 | 0 | 797 | 2,041 | 3,413 | N/A | \$390 |
| COUNTY-OTHER, JEFFERSON - UNASSIGNED WATER VOLUMES | I | CONSTRUCTED LEVY | I SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | \$1909 | \$86 |

Recommended Water User Group (WUG) Water Management Strategies (WMS)

Water Management Strategy Supplies

| WUG Entity Name | WMS Sponsor Region | WMS Name | Source Name | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 | Unit Cost 2020 | Unit Cost 2070 |
|--|--------------------|---|--|---------|---------|---------|---------|---------|---------|----------------|----------------|
| COUNTY-OTHER, NACOGDOCHES | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 428 | 428 | 428 | 428 | 85 | N/A | \$13 |
| COUNTY-OTHER, NACOGDOCHES - UNASSIGNED WATER VOLUMES | I | LK-NACN-LAKE NACONICHE REGIONAL WATER SYSTEM | I LAKE NACONICHE/RESERVOIR | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | \$3102 | \$1431 |
| COUNTY-OTHER, TRINITY | H | WATER LOSS REDUCTION, COUNTY-OTHER - TRINITY COUNTY | DEMAND REDUCTION | 7 | 13 | 19 | 24 | 30 | 35 | \$555 | \$554 |
| D&M WSC | I | NACW-DMW - NACOGDOCHES D&M WSC | I CARRIZO-WILCOX AQUIFER NACOGDOCHES COUNTY | 0 | 0 | 0 | 0 | 112 | 250 | N/A | \$370 |
| G M WSC | I | GM-WSC | I TOLEDO BEND LAKE/RESERVOIR | 284 | 283 | 283 | 283 | 283 | 283 | \$2215 | \$2215 |
| HENDERSON | I | LAKE STRIKER DREDGING | I STRIKER LAKE/RESERVOIR | 0 | 0 | 5,600 | 5,600 | 5,600 | 5,600 | N/A | \$476 |
| HOUSTON COUNTY WCID #1 - UNASSIGNED WATER VOLUMES | I | HCWC PERMIT AMENDMENT | I HOUSTON COUNTY LAKE/RESERVOIR | 1,978 | 1,978 | 1,728 | 1,728 | 1,478 | 1,478 | \$0 | \$0 |
| IRRIGATION, HENDERSON | I | AMWA ATHENS FISH HATCHERY REUSE | I NECHES INDIRECT REUSE | 0 | 0 | 0 | 0 | 29 | 32 | N/A | \$0 |
| IRRIGATION, HENDERSON | I | AMWA-BOOSTER PUMPSTATION IMPROVEMENTS | I ATHENS LAKE/RESERVOIR | 2 | 9 | 6 | 3 | 1 | 0 | \$59 | N/A |
| IRRIGATION, HOUSTON | I | HOUS-IRR NEW WELLS | I YEGUA-JACKSON AQUIFER HOUSTON COUNTY | 757 | 997 | 1,265 | 1,563 | 1,892 | 2,340 | \$704 | \$241 |
| IRRIGATION, ORANGE | I | SRA-INF-PUMPSTATION | I TOLEDO BEND LAKE/RESERVOIR | 2,432 | 2,685 | 2,858 | 2,920 | 2,855 | 2,758 | \$764 | \$419 |
| JACKSON WSC | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 855 | 855 | 855 | 855 | 855 | N/A | \$13 |
| JACKSONVILLE | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 4,275 | 4,275 | 4,275 | 4,275 | 4,275 | N/A | \$13 |
| LIVESTOCK, HENDERSON | I | AMWA ATHENS FISH HATCHERY REUSE | I NECHES INDIRECT REUSE | 2,145 | 2,183 | 2,215 | 2,250 | 1,482 | 902 | \$0 | \$0 |
| LIVESTOCK, HENDERSON | I | AMWA-BOOSTER PUMPSTATION IMPROVEMENTS | I ATHENS LAKE/RESERVOIR | 33 | 152 | 106 | 63 | 18 | 0 | \$59 | N/A |
| LIVESTOCK, NACOGDOCHES | I | NACW-LTK - NACOGDOCHES LIVESTOCK | I CARRIZO-WILCOX AQUIFER NACOGDOCHES COUNTY | 1,644 | 1,837 | 2,061 | 2,320 | 2,617 | 3,059 | \$904 | \$254 |
| LIVESTOCK, SHELBY | I | SHEL-LTK NEW CONTRACT | I TOLEDO BEND LAKE/RESERVOIR | 1,367 | 2,375 | 3,602 | 5,099 | 6,924 | 6,924 | \$699 | \$431 |
| LOWER NECHES VALLEY AUTHORITY - UNASSIGNED WATER VOLUMES | I | LNVA PERMIT AMENDMENT | I SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 28,000 | 28,000 | 28,000 | 28,000 | 28,000 | 28,000 | \$0 | \$0 |
| LOWER NECHES VALLEY AUTHORITY - UNASSIGNED WATER VOLUMES | I | LNVA-SRA NEW CONTRACT | I TOLEDO BEND LAKE/RESERVOIR | 0 | 0 | 0 | 200,000 | 200,000 | 200,000 | N/A | \$526 |
| LUFKIN | I | LUFK-RAY SAM RAYBURN INFRASTRUCTURE | I SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 0 | 5,043 | 14,949 | 19,372 | 18,137 | 16,805 | N/A | \$693 |
| MANUFACTURING, ANGELINA | I | ANGL-MFG CONTRACT EXPANSION | I KURTH LAKE/RESERVOIR | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | \$326 | \$326 |
| MANUFACTURING, ANGELINA | I | LUFK-RAY SAM RAYBURN INFRASTRUCTURE | I SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 0 | 6,167 | 7,471 | 8,628 | 9,863 | 11,195 | N/A | \$326 |
| MANUFACTURING, JASPER | I | JASP-MFG CONTRACT EXPANSION | I SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 0 | 3,049 | 6,021 | 8,250 | 8,335 | 8,420 | N/A | \$387 |
| MANUFACTURING, JEFFERSON | I | JEFF-MFG CONTRACT EXPANSION | I SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 181,181 | 262,193 | 273,826 | 285,499 | 297,181 | 309,323 | \$452 | \$398 |

Recommended Water User Group (WUG) Water Management Strategies (WMS)

Water Management Strategy Supplies

| WUG Entity Name | WMS Sponsor Region | WMS Name | Source Name | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 | Unit Cost 2020 | Unit Cost 2070 |
|---|--------------------|--|--|---------|---------|---------|---------|---------|---------|----------------|----------------|
| MANUFACTURING, ORANGE | I | SRA-INF-PUMPSTATION | I TOLEDO BEND LAKE/RESERVOIR | 3,943 | 9,890 | 15,850 | 21,141 | 27,092 | 33,477 | \$467 | \$372 |
| MANUFACTURING, PANOLA | I | PANL-MFG-INFRASTRUCTURE | I CARRIZO-WILCOX AQUIFER PANOLA COUNTY | 134 | 156 | 176 | 194 | 230 | 309 | \$327 | \$327 |
| MANUFACTURING, RUSK | I | ANRA-GW-NEW WELLS IN CARRIZO WILCOX AQUIFER IN RUSK COUNTY | I CARRIZO-WILCOX AQUIFER CHEROKEE COUNTY | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | \$578 | \$190 |
| MANUFACTURING, RUSK | I | ANRA-GW-NEW WELLS IN CARRIZO WILCOX AQUIFER IN RUSK COUNTY | I CARRIZO-WILCOX AQUIFER RUSK COUNTY | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | \$578 | \$190 |
| MANUFACTURING, SMITH | I | TYL-PAL-EXISTING SURPLUS FOR TYLER | I PALESTINE LAKE/RESERVOIR | 2,039 | 2,257 | 2,467 | 2,645 | 2,889 | 3,154 | \$590 | \$404 |
| MINING, ANGELINA | I | ANRA-RUN-OF-RIVER (SUBMITTED APPLICATION) | I NECHES RUN-OF-RIVER | 474 | 573 | 398 | 300 | 225 | 168 | \$1644 | \$1059 |
| MINING, CHEROKEE | I | ANRA-RUN-OF-RIVER (NEW APPLICATION) | I NECHES RUN-OF-RIVER | 238 | 247 | 210 | 147 | 84 | 40 | \$2560 | \$1148 |
| MINING, HOUSTON | I | HCWC PERMIT AMENDMENT | I HOUSTON COUNTY LAKE/RESERVOIR | 0 | 0 | 250 | 250 | 500 | 500 | N/A | \$0 |
| MINING, NACOGDOCHES | I | ANRA-RUN-OF-RIVER (SUBMITTED APPLICATION) | I NECHES RUN-OF-RIVER | 5,475 | 2,975 | 118 | 0 | 0 | 0 | \$1209 | N/A |
| MINING, NEWTON | I | SRA-INF-PUMPSTATION | I TOLEDO BEND LAKE/RESERVOIR | 115 | 59 | 0 | 0 | 0 | 0 | \$965 | N/A |
| MINING, RUSK | I | ANRA-RUN-OF-RIVER (SUBMITTED APPLICATION) | I NECHES RUN-OF-RIVER | 1,075 | 2,092 | 1,955 | 1,809 | 1,774 | 1,765 | \$1635 | \$1095 |
| MINING, SAN AUGUSTINE | I | ANRA-RUN-OF-RIVER (SUBMITTED APPLICATION) | I NECHES RUN-OF-RIVER | 2,102 | 1,102 | 0 | 0 | 0 | 0 | \$1920 | N/A |
| MINING, TRINITY | H | EXPANDED USE OF GROUNDWATER, TRINITY COUNTY | H CARRIZO-WILCOX AQUIFER TRINITY COUNTY | 100 | 100 | 100 | 100 | 100 | 100 | \$2188 | \$1283 |
| NACOGDOCHES | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 8,551 | 8,551 | 8,551 | 8,551 | 8,551 | N/A | \$13 |
| NEW LONDON | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 855 | 855 | 855 | 855 | 170 | N/A | \$1442 |
| NEW SUMMERFIELD | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 2,565 | 2,565 | 2,565 | 2,565 | 511 | N/A | \$1442 |
| NORTH CHEROKEE WSC | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 4,275 | 4,275 | 4,275 | 4,275 | 852 | N/A | \$539 |
| OVERTON | I | OVER ENHANCED PUBLIC AND SCHOOL EDUCATION | DEMAND REDUCTION | 0 | 0 | 5 | 6 | 9 | 11 | N/A | \$489 |
| OVERTON | I | OVER ENHANCED WATER LOSS CONTROL PROGRAM | DEMAND REDUCTION | 17 | 18 | 97 | 167 | 223 | 269 | \$0 | \$425 |
| OVERTON | I | OVER WATER CONSERVATION PRICING | DEMAND REDUCTION | 0 | 0 | 4 | 8 | 9 | 9 | N/A | \$0 |
| PORT ARTHUR | I | PORT ENHANCED PUBLIC AND SCHOOL EDUCATION | DEMAND REDUCTION | 266 | 331 | 392 | 456 | 521 | 585 | \$227 | \$103 |
| PORT ARTHUR | I | PORT ENHANCED WATER LOSS CONTROL PROGRAM | DEMAND REDUCTION | 4,629 | 6,922 | 7,929 | 8,966 | 9,626 | 8,988 | \$182 | \$135 |
| PORT ARTHUR | I | PORT WATER CONSERVATION PRICING | DEMAND REDUCTION | 99 | 198 | 196 | 195 | 195 | 195 | \$0 | \$0 |
| RUSK | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 4,275 | 4,275 | 4,275 | 4,275 | 852 | N/A | \$13 |
| RUSK RURAL WSC | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 855 | 855 | 855 | 855 | 170 | N/A | \$13 |
| SABINE RIVER AUTHORITY - UNASSIGNED WATER VOLUMES | I | SRA-INF-PUMPSTATION | I TOLEDO BEND LAKE/RESERVOIR | 82,500 | 73,952 | 63,940 | 53,788 | 42,051 | 29,578 | \$1443 | \$1443 |
| SABINE RIVER AUTHORITY - UNASSIGNED WATER VOLUMES | I | SRA-TOL - PERMIT AMENDMENT FOR TOLEDO BEND | I TOLEDO BEND LAKE/RESERVOIR | 215,300 | 210,800 | 206,200 | 201,600 | 197,000 | 195,000 | \$0 | \$0 |
| STEAM ELECTRIC POWER, ANDERSON | I | ANDE-SEP1 ANDERSON STEAM ELECTRIC POWER | I PALESTINE LAKE/RESERVOIR | 11,306 | 13,218 | 15,549 | 18,390 | 21,853 | 21,632 | \$522 | \$365 |
| STEAM ELECTRIC POWER, CHEROKEE | I | ANRA-RUN-OF-RIVER (NEW APPLICATION) | I NECHES RUN-OF-RIVER | 8,000 | 15,000 | 20,000 | 20,000 | 20,000 | 20,000 | \$1076 | \$1006 |

Recommended Water User Group (WUG) Water Management Strategies (WMS)

Water Management Strategy Supplies

| WUG Entity Name | WMS Sponsor Region | WMS Name | Source Name | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 | Unit Cost 2020 | Unit Cost 2070 |
|--|--------------------|---|--|---------|---------|---------|-----------|-----------|-----------|----------------|----------------|
| STEAM ELECTRIC POWER, JEFFERSON | I | JEFF-SEP NEW CONTRACT | I SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 13,426 | 15,696 | 18,464 | 21,838 | 25,951 | 30,839 | \$507 | \$377 |
| STEAM ELECTRIC POWER, NACOGDOCHES | I | HCWC PERMIT AMENDMENT | I HOUSTON COUNTY LAKE/RESERVOIR | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | \$0 | \$0 |
| STEAM ELECTRIC POWER, NACOGDOCHES | I | NACW-SEP1 - NACOGDOCHES STEAM ELECTRIC POWER PURCHASE FROM ANRA | I CARRIZO-WILCOX AQUIFER NACOGDOCHES COUNTY | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 1,989 | \$938 | \$267 |
| STEAM ELECTRIC POWER, NACOGDOCHES | I | NACW-SEP1 - NACOGDOCHES STEAM ELECTRIC POWER PURCHASE FROM ANRA | I NACOGDOCHES LAKE/RESERVOIR | 8,500 | 8,500 | 7,742 | 6,741 | 5,645 | 4,521 | \$619 | \$365 |
| STEAM ELECTRIC POWER, NACOGDOCHES | I | NACW-SEP2 - NEW WELLS IN CARRIZO WILCOX | I CARRIZO-WILCOX AQUIFER NACOGDOCHES COUNTY | 0 | 0 | 0 | 0 | 0 | 2,000 | N/A | \$938 |
| STEAM ELECTRIC POWER, NEWTON | I | SRA-INF-PUMPSTATION | I TOLEDO BEND LAKE/RESERVOIR | 690 | 3,080 | 5,994 | 9,545 | 13,875 | 19,021 | \$531 | \$380 |
| STEAM ELECTRIC POWER, ORANGE | I | SRA-INF-PUMPSTATION | I TOLEDO BEND LAKE/RESERVOIR | 0 | 14 | 1,038 | 2,286 | 3,807 | 4,846 | N/A | \$419 |
| STEAM ELECTRIC POWER, RUSK | I | RUSK-SEP NEW CONTRACT | I SABINE RUN-OF-RIVER | 0 | 0 | 0 | 462 | 8,873 | 18,868 | N/A | \$628 |
| THE CONSOLIDATED WSC | H | EXPANDED USE OF GROUNDWATER, WALKER COUNTY | H YEGUA-JACKSON AQUIFER WALKER COUNTY | 100 | 100 | 100 | 100 | 100 | 100 | \$2188 | \$1283 |
| THE CONSOLIDATED WSC | I | HCWC PERMIT AMENDMENT | I HOUSTON COUNTY LAKE/RESERVOIR | 522 | 522 | 522 | 522 | 522 | 522 | \$0 | \$0 |
| TROUP | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 4,275 | 4,275 | 4,275 | 4,275 | 852 | N/A | \$1442 |
| WEST HARDIN WSC | H | WATER LOSS REDUCTION, WEST HARDIN WSC | DEMAND REDUCTION | 1 | 3 | 5 | 7 | 8 | 11 | \$555 | \$554 |
| WHITEHOUSE | I | ANRA-COL - LAKE COLUMBIA | I COLUMBIA LAKE/RESERVOIR | 0 | 8,551 | 8,551 | 8,551 | 8,551 | 1,704 | N/A | \$1442 |
| WOODVILLE | I | WOOD ENHANCED PUBLIC AND SCHOOL EDUCATION | DEMAND REDUCTION | 0 | 0 | 6 | 7 | 9 | 10 | N/A | \$387 |
| WOODVILLE | I | WOOD WATER CONSERVATION PRICING | DEMAND REDUCTION | 0 | 0 | 4 | 9 | 9 | 9 | N/A | \$0 |
| Region I Total Recommended WMS Supplies | | | | 599,966 | 751,751 | 791,241 | 1,017,932 | 1,045,731 | 1,050,074 | | |

Recommended Projects Associated with Water Management Strategies

Project Sponosr Region: I

| Sponsor Name | Is Sponsor a WWP? | Project Name | Project Description | Capital Cost | Online Decade |
|-----------------------------------|-------------------|---|--|---------------|---------------|
| ALTO RURAL WSC | N | CHE-ALT - NEW WELLS IN CARRIZO WILCOX | CONVEYANCE/TRANSMISSION PIPELINE; LOWER GROUNDWATER WELL PUMP; MULTIPLE WELLS/WELL FIELD; STORAGE TANK | \$2,682,000 | 2050 |
| ANGELINA & NECHES RIVER AUTHORITY | Y | ANRA-COL - LAKE COLUMBIA CONSTRUCTION | RESERVOIR CONSTRUCTION | \$344,498,000 | 2030 |
| ANGELINA & NECHES RIVER AUTHORITY | Y | ANRA-GW-NEW GROUNDWATER WELLS INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$26,023,000 | 2020 |
| ANGELINA & NECHES RIVER AUTHORITY | Y | ANRA-WTP-WTP CONSTRUCTION | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION | \$117,250,000 | 2030 |
| ANGELINA & NECHES RIVER AUTHORITY | Y | CHER-MIN-INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$4,214,000 | 2020 |
| ANGELINA NACOGDOCHES WCID #1 | Y | LAKE-STRIKER-DREDGING | DREDGE TO RECOVER CAPACITY | \$23,716,000 | 2040 |
| ANGELINA NACOGDOCHES WCID #1 | Y | STRIKER-VOLUMETRIC SURVEY | NEW AGREEMENT | \$25,000 | 2020 |
| ATHENS MUNICIPAL WATER AUTHORITY | Y | AMWA-WTP - ATHENS MWA BOOSTER PS IMPROVEMENTS | PUMP STATION | \$2,900,000 | 2020 |
| BEAUMONT | Y | BEAU ENHANCED WATER LOSS CONTROL PROGRAM | WATER LOSS CONTROL | \$52,623,000 | 2030 |
| BULLARD | N | SMTH-BLD-INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$5,260,000 | 2020 |
| CENTER | Y | CENT-REU-PIPELINE FROM WWTP TO LAKE CENTER | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION | \$13,579,000 | 2020 |
| CENTER | Y | CENT-TOL-TOLEDO BEND TO CENTER | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION | \$27,775,000 | 2040 |
| CHANDLER | N | HDSN-CHN - PURCHASE FROM TYLER | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION | \$1,886,000 | 2020 |
| COUNTY-OTHER, JEFFERSON | N | JEFF-CTR INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$14,236,000 | 2050 |
| COUNTY-OTHER, NACOGDOCHES | N | NACN-LK - LAKE NACONICHE INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION | \$34,492,000 | 2040 |
| CRYSTAL SYSTEMS INC | N | SMTH-CYS - INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$2,021,000 | 2020 |
| D&M WSC | N | NACW-DMW - NEW WELLS IN CARRIZO AQUIFER | CONVEYANCE/TRANSMISSION PIPELINE; LOWER GROUNDWATER WELL PUMP; MULTIPLE WELLS/WELL FIELD; STORAGE TANK | \$3,484,000 | 2020 |
| G M WSC | N | GM-WSC-ELEVATED TANK | STORAGE TANK | \$745,500 | 2020 |
| G M WSC | N | GM-WSC-SURFACE WATER PLANT IMPROVEMENTS | WATER TREATMENT PLANT EXPANSION | \$2,483,000 | 2020 |
| G M WSC | N | GM-WSC-WATER SYSTEM EXPANSION | CONVEYANCE/TRANSMISSION PIPELINE | \$1,990,490 | 2020 |
| G M WSC | N | GM-WSC-WATERLINE IMPROVEMENTS | CONVEYANCE/TRANSMISSION PIPELINE | \$2,680,400 | 2020 |
| HOUSTON COUNTY WCID #1 | Y | HCWC-GW INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD | \$22,793,000 | 2020 |
| IRRIGATION, HOUSTON | N | HOUS-IRR INFRASTRUCTURE | MULTIPLE WELLS/WELL FIELD; CONVEYANCE/TRANSMISSION PIPELINE | \$12,926,000 | 2020 |
| IRRIGATION, ORANGE | N | ORAN-IRR-INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$13,281,000 | 2020 |
| IRRIGATION, TRINITY | N | TRTY-IRR INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$2,174,000 | 2020 |
| JACKSONVILLE | Y | JACK-COL | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION | \$20,645,000 | 2030 |
| LINDALE | N | SMTH-LDL-INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$5,803,000 | 2020 |

Recommended Projects Associated with Water Management Strategies

| Sponsor Name | Is Sponsor a WWP? | Project Name | Project Description | Capital Cost | Online Decade |
|--|-------------------|---|--|---------------|---------------|
| LIVESTOCK, NACOGDOCHES | N | NACW-LTK - NEW WELLS IN CARRIZO WILCOX | CONVEYANCE/TRANSMISSION PIPELINE; LOWER GROUNDWATER WELL PUMP; MULTIPLE WELLS/WELL FIELD; STORAGE TANK | \$23,770,000 | 2020 |
| LIVESTOCK, SHELBY | N | SHEL-LTK INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$25,238,000 | 2020 |
| LOWER NECHES VALLEY AUTHORITY | Y | LNVA-JEFF - CONSTRUCTED LEVY | PUMP STATION; RESERVOIR CONSTRUCTION | \$34,989,000 | 2020 |
| LOWER NECHES VALLEY AUTHORITY | Y | LNVA-SRA INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$399,955,000 | 2040 |
| LUFKIN | Y | LUFK-RAY PHASE 1 | CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK | \$49,368,000 | 2030 |
| LUFKIN | Y | LUFK-RAY PHASE 2 | PUMP STATION; WATER TREATMENT PLANT EXPANSION | \$37,863,000 | 2040 |
| LUFKIN | Y | LUFK-RAY PHASE 3 | PUMP STATION | \$2,760,000 | 2050 |
| MANUFACTURING, JASPER | N | JASP-MFG INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$33,497,000 | 2030 |
| MANUFACTURING, JEFFERSON | N | JEFF-MFG INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$312,255,000 | 2020 |
| MANUFACTURING, ORANGE | N | ORAN-MFG | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$42,621,000 | 2020 |
| MANUFACTURING, SMITH | N | SMTH-MFG-INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$7,272,000 | 2020 |
| MINING, ANGELINA | N | ANGL-MIN-INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$4,005,000 | 2020 |
| MINING, NACOGDOCHES | N | NACW-MIN-INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$12,465,000 | 2020 |
| MINING, RUSK | N | RUSK-MIN | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$14,158,000 | 2020 |
| MINING, SAN AUGUSTINE | N | SAUG-MIN-INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$21,064,000 | 2020 |
| MINING, SMITH | N | SMTH-MIN-INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$3,103,000 | 2020 |
| NACOGDOCHES | Y | NACP-COL | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION | \$35,829,000 | 2040 |
| OVERTON | N | OVER ENHANCED WATER LOSS CONTROL PROGRAM | WATER LOSS CONTROL | \$2,105,000 | 2040 |
| PORT ARTHUR | Y | PORT ENHANCED WATER LOSS CONTROL PROGRAM | WATER LOSS CONTROL | \$50,075,000 | 2020 |
| SABINE RIVER AUTHORITY | Y | SRA-INF - PUMPSTATION FOR SRA | CANAL LINING; CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$72,832,675 | 2020 |
| STEAM ELECTRIC POWER, ANDERSON | N | AND-SEP1 - PIPELINE FROM LAKE PALESTINE - CONTRACT WITH CITY OF PALESTINE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION | \$44,576,000 | 2020 |
| STEAM ELECTRIC POWER, CHEROKEE | N | CHER-SEP INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$16,735,000 | 2020 |
| STEAM ELECTRIC POWER, JEFFERSON | N | JEFF-SEP INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$54,518,000 | 2020 |
| STEAM ELECTRIC POWER, NACOGDOCHES | N | NACW-SEP1 - LAKE COLUMBIA INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$25,805,000 | 2030 |
| STEAM ELECTRIC POWER, NACOGDOCHES | N | NACW-SEP2 - NEW WELLS IN CARRIZO WILCOX | CONVEYANCE/TRANSMISSION PIPELINE; LOWER GROUNDWATER WELL PUMP; MULTIPLE WELLS/WELL FIELD; STORAGE TANK | \$16,021,000 | 2070 |
| STEAM ELECTRIC POWER, NEWTON | N | NEWT-SEP INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$38,170,000 | 2020 |
| STEAM ELECTRIC POWER, ORANGE | N | ORAN-SEP | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$15,847,000 | 2020 |
| STEAM ELECTRIC POWER, RUSK | N | RUSK-SEP INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$57,718,000 | 2050 |
| TYLER | Y | TYL-PAL - PALESTINE INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; WATER TREATMENT PLANT EXPANSION | \$93,050,000 | 2030 |
| UPPER NECHES RIVER MUNICIPAL WATER AUTHORITY | Y | UNM-ROR-NECHES RUN OF RIVER INFRASTRUCTURE | CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK | \$444,085,000 | 2020 |

Recommended Projects Associated with Water Management Strategies

| | |
|--|---|
| | Region I Total Recommended Capital Cost \$2,753,935,065 |
|--|---|

*Projects with a capital cost of zero are excluded from the report list.

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