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MEMORANDUM

# East Texas Regional Water Planning Area
# Task 4C Technical Memorandum

**Project No:** 1600-003-01

**Date:** August 15, 2018

**Prepared For:** East Texas Regional Water Planning Group

**Prepared By:** Cynthia A. Syvarth, PE, Alan Plummer Associates, Inc.
Spandana Tummuri, PhD, PE, ENV SP, Freese and Nichols, Inc.
Jennifer Herrera, WSP USA
Rex H. Hunt, PE, Alan Plummer Associates, Inc.

The purpose of this memorandum is to provide the Texas Water Development Board (TWDB) with the Technical Memorandum developed during preparation of the East Texas Regional Water Planning Area (ETRWPA or Region I) 2021 Regional Water Plan (2021 Plan). This memorandum details regional planning activities to date including preliminary analyses of water demand projections, water supply availability, existing water supplies, water needs, and the East Texas Regional Water Planning Group's (ETRWPG) declaration of intent to forego simplified planning.

## 1. Water User Group Population Projections

A copy of the Population Projections data from the TWDB Data Web Interface (DB22) is included as Attachment 1 of this memorandum. The Water User Group (WUG) summary is divided by County, Basin, and Name.

This information is provided in accordance with §357.12(c)(1) of Title 31 of the Texas Administrative Code and Section 13.1.1 and Table 13-1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

## 2. Water User Group Water Demand Projections

A copy of the Water Demand Projections data from the DB22 is included as Attachment 2 of this memorandum. The WUG summary is divided by County, Basin, and Name.

This information is provided in accordance with §357.12(c)(1) of Title 31 of the Texas Administrative Code and Section 13.1.1 and Table 13-1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 3. Water User Group Category Summary

A copy of the WUG Category Summary from the DB22 is included as Attachment 3 of this memorandum. The summary includes the Population (if applicable), Demand, Existing Supplies, and Needs for each water use category in the 2021 Plan: Municipal, County-Other, Manufacturing, Mining, Steam Electric Power, Livestock, and Irrigation.

This information is provided in accordance with Section 13.1.1 and Table 13-1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 4. Source Water Availability

A copy of the Water Availability data from the DB22 is included as Attachment 4 of this memorandum. The source summary is divided by Type, Name, County, Basin, and Salinity.

This information is provided in accordance with §357.12(c)(2) of Title 31 of the Texas Administrative Code and Section 13.1.1 and Table 13-1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 5. Water User Group Existing Water Supplies

A copy of the Existing Water Supplies data from the DB22 is included as Attachment 5 of this memorandum. The WUG summary is divided by County, Basin, Name, Source Region, and Source Description.

This information is provided in accordance with §357.12(c)(3) of Title 31 of the Texas Administrative Code and Section 13.1.1 and Table 13-1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 6. Water User Group Identified Water Needs/Surpluses

A copy of the Water Needs/Surpluses data from the DB22 is included as Attachment 6 of this memorandum. The WUG summary is a balance of projected demands (Attachment 2) minus existing water supplies (Attachment 5) and is divided by County, Basin, and Name.

This information is provided in accordance with §357.12(c)(4) of Title 31 of the Texas Administrative Code and Section 13.1.1 and Table 13-1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 7. Source Water Balance

A copy of the Water Balance data from the DB22 is included as Attachment 7 of this memorandum. The Source summary is a balance of Availability (Attachment 4) minus Existing Water Supplies (Attachment 5) and is divided by Type, Name, County, Basin, and Salinity.

This information is provided in accordance with Section 13.1.1 and Table 13-1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 8. Water User Group Data Comparison to 2016 Plan

A copy of the WUG comparison to the 2016 Plan data from the DB22 is included as attachment 8 of this memorandum. The WUG Category comparison includes the 2021 Plan Existing Supply, Projected Demand, and Needs balance from Attachment 3 and compares the data to the 2016 Plan. The table is divided by County and Category.

This information is provided in accordance with Section 13.1.1 and Table 13-1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 9. Source Data Comparison to 2016 Plan

A copy of the Water Availability comparison to the 2016 Plan data from the DB22 is included as attachment 9 of this memorandum. The Source comparison includes the Availability from Attachment 4 and compares the data to the 2016 Plan. The table is divided by County and Type.

This information is provided in accordance with Section 13.1.1 and Table 13-1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 10. Modifications to Draft Available Water Supplies

Region I is not requesting the reallocation of annual Modeled Available Groundwater (MAG) volumes or the use of MAG Peak Factors. However, Region I is requesting modifications to the firm yield of major reservoirs in the Neches, Trinity, and Sabine River Basins. A summary of the model modification assumptions and the original unmodified firm yield are included as Attachments 10a and 10b, respectively, of this memorandum. The alternative availability utilized as the basis for regional water planning is included as Attachment 4 of this memorandum, Source Water Availability.

This information is provided in accordance with Section 13.1.1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 11. Identification of Potentially Feasible Water Management Strategies

The process used to identify potentially feasible Water Management Strategies (WMS) was approved by the ETRWPG at a public meeting held to receive input on the process dated December 11, 2017. The documented process is included as Attachment 11 of this memorandum.

This information is provided in accordance with §357.12(c)(5) of Title 31 of the Texas Administrative Code and Section 13.1.1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 12. Potentially Feasible Water Management Strategies to Date

A single tabular list of all potentially feasible WMSs identified by the ETRWPG to date is included as Attachment 12 of this memorandum.

This information is provided in accordance with §357.12(c)(6) of Title 31 of the Texas Administrative Code and Section 13.1.1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 13. Water Availability Models and Runs

Water availability modeling was used to analyze available supplies from run-of-river sources, reservoirs, and reservoir systems in the Neches, Sabine, and Trinity River Basins and the Neches-Trinity Coastal Basin. A summary of the method used to determine available supplies from the Neches River for the City of Beaumont for regional water planning is included in the hydrologic variance request letter submitted to the TWDB on July 3, 2018. The hydrologic variance request letter is included as Attachment 13a of this memorandum.

A summary of the versions and dates of all Water Availability Models (WAM) and Water Availability runs used to date is included as Attachment 13b of this memorandum.

The electronic model input/output files submitted to the TWDB are not required to be made public or made available in PDF format. Therefore, these documents will be provided directly to the TWDB via electronic submittal in their original text file format so they can be directly verified by a TWDB modeler in accordance with the TWDB Exhibit D, Guidelines for Regional Water Planning Data Deliverables dated March 2018.

This information is provided in accordance with Section 13.1.1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 14. Groundwater Availability Determination Methodology

A table summarizing the groundwater availability determination methodology is included as Attachment 14 of this memorandum. The Water Source summary is divided by Name, County, and Basin.

The various methodologies utilized in the order each methodology was applied include:

- Modeled Available Groundwater (MAG) – Groundwater Availability Model (GAM) Runs (Run number provided in table)
- Non-Relevant TWDB Modeled
- Maximum 8-Year Historical Annual Use

This information is provided in accordance with Section 13.1.1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 15. Simplified Planning

The ETRWPG discussed and decided to forgo the option to pursue the simplified planning offered by the TWDB for the fifth cycle of regional water planning at its general meeting held August 15, 2018. The agenda for this meeting is included as Attachment 15 to this memorandum.

This information is provided in accordance with §357.12(c)(8) of Title 31 of the Texas Administrative Code and Section 13.1.1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 16. Water and Groundwater Availability Model Summaries

A summary of all WAM models used to determine surface water availably is included as Attachment 13b of this memorandum. The summary includes each model name, model modifications, the date modifications were approved by the TWDB Executive Administrator*, the firm that performed each model run, and the date of each model run.

*The ETRWPA hydrologic variance request was submitted to the TWDB Executive Administrator on July 3, 2018 and is pending approval. The request letter is included as Attachment 13a of this memorandum.

The only GAM models utilized by Region I to determine groundwater availabilities were TWDB provided GAMs; therefore, a GAM model summary is not included as an attachment.

This information is provided in accordance with Section 13.1.1 of the Texas Water Development Board's Exhibit C: Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development, April 2018.

### 17. Public Comments

A notice of meeting to consider approving submittal of this Task 4C Technical Memorandum was issued August 1, 2018. The ETRWPG began to accept written and oral comments at the public meeting. Comments were accepted until August 30, 2018 for inclusion in this technical memorandum. A copy of the notice and a summary of comments received are included as Attachments 17a and 17b, respectively, of this memorandum.

This information is provided in accordance with §357.12(c)(7) of Title 31 of the Texas Administrative Code.

### 18. Submittal

Submittal of this memorandum includes two double-sided bound copies and two electronic copies (PDF and WORD) of this memorandum and its attachments. In addition, the electronic submittals shall include the model input/output files per paragraph 13 of this memorandum.

This information is provided in accordance with Paragraph D in Article III of the Contract between the City of Nacogdoches and the TWDB initiated and approved by the TWDB on April 10, 2015.

## Attachment 1

## TWDB DB22 Report #1. WUG Population Projections

# Region I Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| BRUSHY CREEK WSC | 2,118 | 2,187 | 2,213 | 2,213 | 2,213 | 2,213 |
| FRANKSTON | 1,263 | 1,305 | 1,320 | 1,320 | 1,320 | 1,320 |
| FRANKSTON RURAL WSC | 1,295 | 1,338 | 1,354 | 1,354 | 1,354 | 1,354 |
| NECHES WSC | 1,515 | 1,564 | 1,582 | 1,582 | 1,582 | 1,582 |
| NORWOOD WSC | 814 | 820 | 829 | 829 | 829 | 829 |
| PALESTINE | 9,726 | 10,045 | 10,162 | 10,162 | 10,162 | 10,162 |
| SLOCUM WSC | 2,187 | 2,258 | 2,284 | 2,284 | 2,284 | 2,284 |
| WALSTON SPRINGS WSC | 2,581 | 2,666 | 2,698 | 2,698 | 2,698 | 2,698 |
| COUNTY-OTHER | 615 | 643 | 653 | 653 | 653 | 653 |
| **NECHES BASIN TOTAL** | **22,114** | **22,826** | **23,095** | **23,095** | **23,095** | **23,095** |
| ANDERSON COUNTY CEDAR CREEK WSC | 1,015 | 1,049 | 1,060 | 1,060 | 1,060 | 1,060 |
| B B S WSC | 1,345 | 1,388 | 1,405 | 1,405 | 1,405 | 1,405 |
| B C Y WSC | 1,901 | 1,901 | 1,901 | 1,901 | 1,901 | 1,901 |
| BRUSHY CREEK WSC | 1,243 | 1,283 | 1,298 | 1,298 | 1,298 | 1,298 |
| ELKHART | 1,431 | 1,478 | 1,496 | 1,496 | 1,496 | 1,496 |
| FOUR PINES WSC | 3,596 | 3,713 | 3,756 | 3,756 | 3,756 | 3,756 |
| NORWOOD WSC | 60 | 60 | 61 | 61 | 61 | 61 |
| PALESTINE | 9,228 | 9,531 | 9,641 | 9,641 | 9,641 | 9,641 |
| PLEASANT SPRINGS WSC | 974 | 1,007 | 1,018 | 1,018 | 1,018 | 1,018 |
| SLOCUM WSC | 230 | 238 | 240 | 240 | 240 | 240 |
| TDCJ BETO GURNEY & POWLEDGE UNITS | 3,598 | 3,716 | 3,759 | 3,759 | 3,759 | 3,759 |
| TDCJ COFFIELD MICHAEL | 5,132 | 5,300 | 5,361 | 5,361 | 5,361 | 5,361 |
| THE CONSOLIDATED WSC | 1,140 | 1,178 | 1,191 | 1,191 | 1,191 | 1,191 |
| TUCKER WSC | 1,160 | 1,198 | 1,211 | 1,211 | 1,211 | 1,211 |
| WALSTON SPRINGS WSC | 1,030 | 1,064 | 1,076 | 1,076 | 1,076 | 1,076 |
| COUNTY-OTHER | 5,819 | 6,087 | 6,177 | 6,177 | 6,177 | 6,177 |
| **TRINITY BASIN TOTAL** | **38,902** | **40,191** | **40,651** | **40,651** | **40,651** | **40,651** |
| **ANDERSON COUNTY TOTAL** | **61,016** | **63,017** | **63,746** | **63,746** | **63,746** | **63,746** |
| ANGELINA WSC | 3,000 | 3,210 | 3,386 | 3,547 | 3,690 | 3,818 |
| CENTRAL WCID OF ANGELINA COUNTY | 7,323 | 7,835 | 8,265 | 8,658 | 9,009 | 9,320 |
| DIBOLL | 5,646 | 6,041 | 6,372 | 6,675 | 6,946 | 7,186 |
| FOUR WAY SUD | 5,596 | 5,987 | 6,316 | 6,616 | 6,885 | 7,122 |
| HUDSON WSC | 9,588 | 10,259 | 10,823 | 11,337 | 11,797 | 12,204 |
| HUNTINGTON | 2,504 | 2,680 | 2,826 | 2,961 | 3,081 | 3,188 |
| LUFKIN | 43,626 | 46,679 | 49,241 | 51,580 | 53,673 | 55,526 |
| M & M WSC | 3,325 | 3,558 | 3,753 | 3,932 | 4,091 | 4,232 |
| POLLOK-REDTOWN WSC | 1,658 | 1,778 | 1,880 | 1,977 | 2,066 | 2,148 |
| REDLAND WSC | 2,624 | 2,808 | 2,961 | 3,102 | 3,228 | 3,340 |
| UPPER JASPER COUNTY WATER AUTHORITY | 91 | 92 | 93 | 93 | 93 | 93 |
| WOODLAWN WSC | 1,828 | 1,956 | 2,064 | 2,162 | 2,249 | 2,327 |
| ZAVALLA | 835 | 893 | 943 | 987 | 1,028 | 1,063 |

# Region I Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | 5,672 | 6,072 | 6,406 | 6,705 | 6,972 | 7,205 |
| **NECHES BASIN TOTAL** | **93,316** | **99,848** | **105,329** | **110,332** | **114,808** | **118,772** |
| **ANGELINA COUNTY TOTAL** | **93,316** | **99,848** | **105,329** | **110,332** | **114,808** | **118,772** |
| AFTON GROVE WSC | 1,237 | 1,357 | 1,474 | 1,614 | 1,761 | 1,919 |
| ALTO | 1,275 | 1,398 | 1,519 | 1,663 | 1,814 | 1,977 |
| ALTO RURAL WSC | 3,272 | 3,588 | 3,898 | 4,267 | 4,655 | 5,074 |
| BLACKJACK WSC | 778 | 853 | 927 | 1,014 | 1,107 | 1,206 |
| BULLARD | 58 | 63 | 69 | 76 | 82 | 89 |
| CRAFT TURNEY WSC | 5,215 | 5,717 | 6,211 | 6,800 | 7,417 | 8,086 |
| GUM CREEK WSC | 1,311 | 1,437 | 1,561 | 1,709 | 1,865 | 2,033 |
| JACKSONVILLE | 18,083 | 19,830 | 21,543 | 23,585 | 25,726 | 28,041 |
| NEW SUMMERFIELD | 1,238 | 1,358 | 1,475 | 1,614 | 1,761 | 1,919 |
| NORTH CHEROKEE WSC | 4,900 | 5,375 | 5,839 | 6,391 | 6,973 | 7,599 |
| POLLOK-REDTOWN WSC | 144 | 154 | 163 | 171 | 179 | 186 |
| RUSK | 6,204 | 6,804 | 7,391 | 8,091 | 8,826 | 9,620 |
| RUSK RURAL WSC | 2,969 | 3,255 | 3,537 | 3,872 | 4,223 | 4,603 |
| SOUTH RUSK COUNTY WSC | 63 | 70 | 77 | 85 | 92 | 100 |
| SOUTHERN UTILITIES | 4,165 | 4,497 | 4,847 | 5,240 | 5,670 | 6,148 |
| TROUP | 77 | 85 | 92 | 101 | 109 | 119 |
| WELLS | 879 | 963 | 1,046 | 1,146 | 1,249 | 1,362 |
| WEST JACKSONVILLE WSC | 1,126 | 1,234 | 1,341 | 1,468 | 1,601 | 1,745 |
| WRIGHT CITY WSC | 601 | 659 | 716 | 784 | 855 | 932 |
| COUNTY-OTHER | 2,039 | 2,308 | 2,551 | 2,869 | 3,183 | 3,511 |
| **NECHES BASIN TOTAL** | **55,634** | **61,005** | **66,277** | **72,560** | **79,148** | **86,269** |
| **CHEROKEE COUNTY TOTAL** | **55,634** | **61,005** | **66,277** | **72,560** | **79,148** | **86,269** |
| HARDIN COUNTY WCID 1 | 1,421 | 1,528 | 1,605 | 1,661 | 1,706 | 1,739 |
| KOUNTZE | 2,135 | 2,141 | 2,145 | 2,148 | 2,151 | 2,153 |
| LUMBERTON MUD | 28,586 | 31,985 | 34,397 | 36,192 | 37,592 | 38,619 |
| NORTH HARDIN WSC | 7,821 | 8,344 | 8,716 | 8,991 | 9,206 | 9,367 |
| SILSBEE | 7,162 | 7,320 | 7,434 | 7,517 | 7,583 | 7,633 |
| SOUR LAKE | 1,920 | 2,021 | 2,093 | 2,147 | 2,189 | 2,219 |
| WEST HARDIN WSC | 3,491 | 3,510 | 3,523 | 3,531 | 3,539 | 3,545 |
| WILDWOOD POA | 806 | 843 | 869 | 887 | 902 | 913 |
| COUNTY-OTHER | 5,900 | 6,044 | 6,148 | 6,207 | 6,248 | 6,301 |
| **NECHES BASIN TOTAL** | **59,242** | **63,736** | **66,930** | **69,281** | **71,116** | **72,489** |
| LAKE LIVINGSTON WSC | 100 | 112 | 125 | 138 | 152 | 166 |
| WEST HARDIN WSC | 46 | 46 | 46 | 47 | 47 | 47 |
| COUNTY-OTHER | 89 | 92 | 93 | 94 | 95 | 96 |
| **TRINITY BASIN TOTAL** | **235** | **250** | **264** | **279** | **294** | **309** |
| **HARDIN COUNTY TOTAL** | **59,477** | **63,986** | **67,194** | **69,560** | **71,410** | **72,798** |

# Region I Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| ATHENS | 274 | 294 | 311 | 333 | 352 | 371 |
| BERRYVILLE | 1,097 | 1,201 | 1,287 | 1,401 | 1,500 | 1,596 |
| BETHEL ASH WSC | 3,154 | 3,565 | 3,908 | 4,362 | 4,753 | 5,133 |
| BROWNSBORO | 1,368 | 1,665 | 1,915 | 2,243 | 2,527 | 2,803 |
| BRUSHY CREEK WSC | 917 | 985 | 1,041 | 1,116 | 1,181 | 1,243 |
| CHANDLER | 3,704 | 4,510 | 5,181 | 6,067 | 6,833 | 7,574 |
| EDOM WSC | 204 | 223 | 238 | 254 | 274 | 296 |
| FRANKSTON | 44 | 67 | 86 | 111 | 133 | 154 |
| LEAGUEVILLE WSC | 2,023 | 2,159 | 2,330 | 2,533 | 3,184 | 4,044 |
| MOORE STATION WSC | 1,430 | 1,526 | 1,647 | 1,789 | 2,250 | 2,858 |
| MURCHISON | 603 | 604 | 606 | 608 | 611 | 612 |
| R P M WSC | 630 | 752 | 854 | 988 | 1,104 | 1,216 |
| VIRGINIA HILL WSC | 1,722 | 1,976 | 2,190 | 2,470 | 2,711 | 2,946 |
| COUNTY-OTHER | 7,634 | 7,117 | 6,583 | 5,924 | 4,535 | 2,798 |
| **NECHES BASIN TOTAL** | **24,804** | **26,644** | **28,177** | **30,199** | **31,948** | **33,644** |
| **HENDERSON COUNTY TOTAL** | **24,804** | **26,644** | **28,177** | **30,199** | **31,948** | **33,644** |
| GRAPELAND | 597 | 600 | 601 | 601 | 601 | 601 |
| PENNINGTON WSC | 310 | 311 | 311 | 311 | 311 | 311 |
| THE CONSOLIDATED WSC | 2,865 | 2,885 | 2,886 | 2,886 | 2,886 | 2,886 |
| COUNTY-OTHER | 723 | 706 | 705 | 705 | 705 | 705 |
| **NECHES BASIN TOTAL** | **4,495** | **4,502** | **4,503** | **4,503** | **4,503** | **4,503** |
| CROCKETT | 7,073 | 7,105 | 7,105 | 7,105 | 7,105 | 7,105 |
| GRAPELAND | 922 | 927 | 927 | 927 | 927 | 927 |
| LOVELADY | 684 | 693 | 693 | 693 | 693 | 693 |
| PENNINGTON WSC | 558 | 561 | 561 | 561 | 561 | 561 |
| TDCJ EASTHAM UNIT | 2,460 | 2,460 | 2,460 | 2,460 | 2,460 | 2,460 |
| THE CONSOLIDATED WSC | 7,818 | 7,874 | 7,874 | 7,874 | 7,874 | 7,874 |
| COUNTY-OTHER | 141 | 138 | 137 | 137 | 137 | 137 |
| **TRINITY BASIN TOTAL** | **19,656** | **19,758** | **19,757** | **19,757** | **19,757** | **19,757** |
| **HOUSTON COUNTY TOTAL** | **24,151** | **24,260** | **24,260** | **24,260** | **24,260** | **24,260** |
| BROOKELAND FWSD | 335 | 337 | 338 | 338 | 338 | 338 |
| JASPER | 9,059 | 9,259 | 9,297 | 9,297 | 9,297 | 9,297 |
| RAYBURN COUNTRY MUD | 1,703 | 1,741 | 1,748 | 1,748 | 1,748 | 1,748 |
| RURAL WSC | 1,029 | 1,052 | 1,056 | 1,056 | 1,056 | 1,056 |
| SOUTH JASPER COUNTY WSC | 412 | 421 | 423 | 423 | 423 | 423 |
| UPPER JASPER COUNTY WATER AUTHORITY | 1,209 | 1,240 | 1,249 | 1,252 | 1,256 | 1,258 |
| COUNTY-OTHER | 8,318 | 8,502 | 8,535 | 8,533 | 8,530 | 8,528 |
| **NECHES BASIN TOTAL** | **22,065** | **22,552** | **22,646** | **22,647** | **22,648** | **22,648** |
| JASPER COUNTY WCID 1 | 2,730 | 2,791 | 2,802 | 2,802 | 2,802 | 2,802 |

# Region I Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| KIRBYVILLE | 2,218 | 2,267 | 2,276 | 2,276 | 2,276 | 2,276 |
| MAURICEVILLE SUD | 429 | 439 | 440 | 440 | 440 | 440 |
| SOUTH JASPER COUNTY WSC | 1,179 | 1,205 | 1,210 | 1,210 | 1,210 | 1,210 |
| UPPER JASPER COUNTY WATER AUTHORITY | 464 | 476 | 479 | 480 | 482 | 483 |
| COUNTY-OTHER | 7,793 | 7,965 | 7,996 | 7,994 | 7,991 | 7,990 |
| **SABINE BASIN TOTAL** | **14,813** | **15,143** | **15,203** | **15,202** | **15,201** | **15,201** |
| **JASPER COUNTY TOTAL** | **36,878** | **37,695** | **37,849** | **37,849** | **37,849** | **37,849** |
| BEAUMONT | 42,437 | 45,174 | 48,050 | 51,392 | 55,079 | 59,207 |
| BEVIL OAKS | 1,345 | 1,431 | 1,522 | 1,628 | 1,745 | 1,875 |
| CHINA | 22 | 23 | 25 | 27 | 29 | 31 |
| GROVES | 496 | 496 | 496 | 496 | 496 | 496 |
| JEFFERSON COUNTY WCID 10 | 945 | 1,006 | 1,070 | 1,144 | 1,226 | 1,319 |
| MEEKER MWD | 836 | 890 | 947 | 1,012 | 1,085 | 1,166 |
| NEDERLAND | 679 | 723 | 769 | 822 | 881 | 947 |
| PORT ARTHUR | 166 | 168 | 168 | 168 | 168 | 168 |
| PORT NECHES | 7,202 | 7,667 | 8,155 | 8,722 | 9,347 | 10,048 |
| COUNTY-OTHER | 1,022 | 1,392 | 1,838 | 2,357 | 2,928 | 3,569 |
| **NECHES BASIN TOTAL** | **55,150** | **58,970** | **63,040** | **67,768** | **72,984** | **78,826** |
| BEAUMONT | 87,587 | 93,235 | 99,171 | 106,070 | 113,679 | 122,199 |
| CHINA | 1,208 | 1,286 | 1,368 | 1,462 | 1,567 | 1,685 |
| GROVES | 15,511 | 15,511 | 15,511 | 15,511 | 15,511 | 15,511 |
| JEFFERSON COUNTY WCID 10 | 4,709 | 5,012 | 5,332 | 5,703 | 6,112 | 6,570 |
| MEEKER MWD | 2,497 | 2,658 | 2,827 | 3,024 | 3,240 | 3,484 |
| NEDERLAND | 18,176 | 19,348 | 20,579 | 22,011 | 23,590 | 25,359 |
| PORT ARTHUR | 55,227 | 55,922 | 55,922 | 55,922 | 55,922 | 55,922 |
| PORT NECHES | 6,656 | 7,085 | 7,536 | 8,060 | 8,639 | 9,287 |
| WEST JEFFERSON COUNTY MWD | 8,554 | 9,105 | 9,685 | 10,359 | 11,102 | 11,934 |
| COUNTY-OTHER | 12,104 | 16,488 | 21,773 | 27,912 | 34,684 | 42,264 |
| **NECHES-TRINITY BASIN TOTAL** | **212,229** | **225,650** | **239,704** | **256,034** | **274,046** | **294,215** |
| **JEFFERSON COUNTY TOTAL** | **267,379** | **284,620** | **302,744** | **323,802** | **347,030** | **373,041** |
| APPLEBY WSC | 3,656 | 4,108 | 4,553 | 5,026 | 5,527 | 6,050 |
| CARO WSC | 2,593 | 2,913 | 3,228 | 3,564 | 3,919 | 4,290 |
| CUSHING | 924 | 1,037 | 1,150 | 1,270 | 1,396 | 1,528 |
| D & M WSC | 6,238 | 7,009 | 7,767 | 8,574 | 9,430 | 10,322 |
| ETOILE WSC | 2,238 | 2,514 | 2,786 | 3,075 | 3,382 | 3,702 |
| GARRISON | 1,124 | 1,263 | 1,399 | 1,545 | 1,698 | 1,859 |
| LILLY GROVE SUD | 2,649 | 2,975 | 3,298 | 3,641 | 4,004 | 4,383 |
| MELROSE WSC | 2,828 | 3,178 | 3,521 | 3,887 | 4,275 | 4,680 |
| NACOGDOCHES | 37,580 | 42,218 | 46,790 | 51,655 | 56,802 | 62,183 |
| SWIFT WSC | 2,773 | 3,116 | 3,453 | 3,812 | 4,192 | 4,589 |

# Region I Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| WODEN WSC | 2,783 | 3,127 | 3,466 | 3,825 | 4,206 | 4,605 |
| COUNTY-OTHER | 6,750 | 7,582 | 8,404 | 9,281 | 10,204 | 11,173 |
| **NECHES BASIN TOTAL** | **72,136** | **81,040** | **89,815** | **99,155** | **109,035** | **119,364** |
| **NACOGDOCHES COUNTY TOTAL** | **72,136** | **81,040** | **89,815** | **99,155** | **109,035** | **119,364** |
| BROOKELAND FWSD | 896 | 901 | 902 | 902 | 902 | 902 |
| MAURICEVILLE SUD | 390 | 390 | 390 | 390 | 390 | 390 |
| NEWTON | 2,478 | 2,478 | 2,478 | 2,478 | 2,478 | 2,478 |
| SOUTH NEWTON WSC | 2,485 | 2,485 | 2,485 | 2,485 | 2,485 | 2,485 |
| COUNTY-OTHER | 8,196 | 8,191 | 8,190 | 8,190 | 8,190 | 8,190 |
| **SABINE BASIN TOTAL** | **14,445** | **14,445** | **14,445** | **14,445** | **14,445** | **14,445** |
| **NEWTON COUNTY TOTAL** | **14,445** | **14,445** | **14,445** | **14,445** | **14,445** | **14,445** |
| BRIDGE CITY | 1,350 | 1,411 | 1,454 | 1,483 | 1,505 | 1,522 |
| KELLY G BREWER | 268 | 280 | 289 | 294 | 299 | 302 |
| MAURICEVILLE SUD | 701 | 733 | 755 | 770 | 782 | 790 |
| ORANGE COUNTY WCID 1 | 12,541 | 13,108 | 13,507 | 13,778 | 13,985 | 14,134 |
| ORANGEFIELD WSC | 1,897 | 1,982 | 2,043 | 2,084 | 2,115 | 2,138 |
| PORT ARTHUR | 5 | 5 | 5 | 5 | 5 | 5 |
| COUNTY-OTHER | 10,665 | 11,150 | 11,489 | 11,719 | 11,894 | 12,021 |
| **NECHES BASIN TOTAL** | **27,427** | **28,669** | **29,542** | **30,133** | **30,585** | **30,912** |
| BRIDGE CITY | 900 | 941 | 969 | 989 | 1,004 | 1,014 |
| COUNTY-OTHER | 98 | 102 | 106 | 108 | 109 | 110 |
| **NECHES-TRINITY BASIN TOTAL** | **998** | **1,043** | **1,075** | **1,097** | **1,113** | **1,124** |
| BRIDGE CITY | 6,741 | 7,045 | 7,260 | 7,405 | 7,517 | 7,598 |
| KELLY G BREWER | 231 | 241 | 249 | 254 | 258 | 260 |
| MAURICEVILLE SUD | 8,407 | 8,787 | 9,056 | 9,237 | 9,375 | 9,476 |
| ORANGE | 19,667 | 20,556 | 21,183 | 21,608 | 21,931 | 22,166 |
| ORANGE COUNTY WCID 2 | 3,632 | 3,797 | 3,912 | 3,991 | 4,051 | 4,094 |
| ORANGEFIELD WSC | 2,968 | 3,102 | 3,197 | 3,261 | 3,310 | 3,344 |
| PINEHURST | 2,226 | 2,326 | 2,397 | 2,445 | 2,481 | 2,509 |
| SOUTH NEWTON WSC | 1,398 | 1,461 | 1,506 | 1,536 | 1,559 | 1,576 |
| COUNTY-OTHER | 12,632 | 13,206 | 13,607 | 13,881 | 14,089 | 14,239 |
| **SABINE BASIN TOTAL** | **57,902** | **60,521** | **62,367** | **63,618** | **64,571** | **65,262** |
| **ORANGE COUNTY TOTAL** | **86,327** | **90,233** | **92,984** | **94,848** | **96,269** | **97,298** |
| COUNTY-OTHER | 55 | 58 | 60 | 62 | 63 | 64 |
| **CYPRESS BASIN TOTAL** | **55** | **58** | **60** | **62** | **63** | **64** |
| BECKVILLE | 994 | 1,113 | 1,186 | 1,254 | 1,305 | 1,345 |
| CARTHAGE | 6,925 | 7,066 | 7,152 | 7,232 | 7,292 | 7,339 |
| GILL WSC | 817 | 841 | 857 | 871 | 882 | 891 |
| MINDEN BRACHFIELD WSC | 58 | 65 | 71 | 78 | 85 | 93 |
| PANOLA-BETHANY WSC | 92 | 111 | 134 | 169 | 192 | 211 |

# Region I Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| TATUM | 324 | 387 | 425 | 460 | 487 | 507 |
| COUNTY-OTHER | 15,846 | 16,737 | 17,269 | 17,747 | 18,106 | 18,382 |
| **SABINE BASIN TOTAL** | **25,056** | **26,320** | **27,094** | **27,811** | **28,349** | **28,768** |
| **PANOLA COUNTY TOTAL** | **25,111** | **26,378** | **27,154** | **27,873** | **28,412** | **28,832** |
| CHESTER WSC | 224 | 230 | 235 | 239 | 242 | 245 |
| CORRIGAN | 1,871 | 2,091 | 2,263 | 2,410 | 2,530 | 2,627 |
| DAMASCUS-STRYKER WSC | 1,557 | 1,739 | 1,883 | 2,005 | 2,105 | 2,185 |
| LAKE LIVINGSTON WSC | 1,000 | 1,124 | 1,246 | 1,378 | 1,515 | 1,660 |
| MOSCOW WSC | 356 | 398 | 430 | 459 | 482 | 500 |
| SODA WSC | 131 | 146 | 159 | 169 | 178 | 184 |
| COUNTY-OTHER | 3,820 | 4,280 | 4,618 | 4,877 | 5,060 | 5,173 |
| **NECHES BASIN TOTAL** | **8,959** | **10,008** | **10,834** | **11,537** | **12,112** | **12,574** |
| **POLK COUNTY TOTAL** | **8,959** | **10,008** | **10,834** | **11,537** | **12,112** | **12,574** |
| EBENEZER WSC | 838 | 934 | 1,027 | 1,127 | 1,231 | 1,339 |
| GASTON WSC | 1,661 | 1,851 | 2,036 | 2,235 | 2,442 | 2,656 |
| GOODSPRINGS WSC | 2,869 | 3,198 | 3,518 | 3,861 | 4,218 | 4,588 |
| HENDERSON | 12,718 | 14,177 | 15,592 | 17,115 | 18,697 | 20,337 |
| JACOBS WSC | 82 | 91 | 101 | 110 | 121 | 131 |
| MINDEN BRACHFIELD WSC | 1,027 | 1,145 | 1,260 | 1,382 | 1,510 | 1,643 |
| MT ENTERPRISE WSC | 1,864 | 2,078 | 2,285 | 2,508 | 2,740 | 2,981 |
| NEW LONDON | 1,380 | 1,537 | 1,690 | 1,855 | 2,027 | 2,205 |
| OVERTON | 282 | 314 | 346 | 379 | 414 | 451 |
| SOUTH RUSK COUNTY WSC | 1,888 | 2,104 | 2,314 | 2,541 | 2,775 | 3,019 |
| WRIGHT CITY WSC | 497 | 554 | 610 | 669 | 731 | 795 |
| COUNTY-OTHER | 4,914 | 5,498 | 6,054 | 6,646 | 7,251 | 7,868 |
| **NECHES BASIN TOTAL** | **30,020** | **33,481** | **36,833** | **40,428** | **44,157** | **48,013** |
| CHALK HILL SUD | 3,807 | 4,243 | 4,668 | 5,123 | 5,597 | 6,088 |
| CROSS ROADS SUD | 3,134 | 3,494 | 3,844 | 4,218 | 4,609 | 5,013 |
| CRYSTAL FARMS WSC | 1,043 | 1,163 | 1,279 | 1,404 | 1,534 | 1,668 |
| ELDERVILLE WSC | 1,902 | 2,094 | 2,301 | 2,534 | 2,790 | 3,073 |
| HENDERSON | 2,210 | 2,463 | 2,710 | 2,974 | 3,249 | 3,534 |
| JACOBS WSC | 2,265 | 2,525 | 2,777 | 3,049 | 3,330 | 3,623 |
| KILGORE | 3,323 | 3,705 | 4,075 | 4,472 | 4,887 | 5,314 |
| MINDEN BRACHFIELD WSC | 461 | 514 | 565 | 620 | 678 | 737 |
| NEW LONDON | 1,111 | 1,238 | 1,361 | 1,494 | 1,632 | 1,775 |
| NEW PROSPECT WSC | 1,156 | 1,289 | 1,418 | 1,557 | 1,700 | 1,850 |
| OVERTON | 2,329 | 2,596 | 2,854 | 3,134 | 3,423 | 3,723 |
| SOUTHERN UTILITIES | 419 | 452 | 487 | 527 | 570 | 618 |
| TATUM | 1,212 | 1,351 | 1,486 | 1,630 | 1,781 | 1,937 |
| WEST GREGG SUD | 188 | 210 | 231 | 253 | 277 | 301 |

# Region I Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | 4,692 | 5,249 | 5,780 | 6,346 | 6,924 | 7,513 |
| **SABINE BASIN TOTAL** | **29,252** | **32,586** | **35,836** | **39,335** | **42,981** | **46,767** |
| **RUSK COUNTY TOTAL** | **59,272** | **66,067** | **72,669** | **79,763** | **87,138** | **94,780** |
| BROOKELAND FWSD | 570 | 574 | 575 | 575 | 575 | 575 |
| G M WSC | 800 | 801 | 801 | 801 | 801 | 801 |
| PINELAND | 968 | 970 | 970 | 970 | 970 | 970 |
| COUNTY-OTHER | 64 | 64 | 64 | 64 | 64 | 64 |
| **NECHES BASIN TOTAL** | **2,402** | **2,409** | **2,410** | **2,410** | **2,410** | **2,410** |
| BROOKELAND FWSD | 81 | 82 | 82 | 82 | 82 | 82 |
| G M WSC | 5,950 | 5,954 | 5,955 | 5,955 | 5,955 | 5,955 |
| HEMPHILL | 1,294 | 1,304 | 1,304 | 1,304 | 1,304 | 1,304 |
| COUNTY-OTHER | 1,490 | 1,500 | 1,498 | 1,498 | 1,498 | 1,498 |
| **SABINE BASIN TOTAL** | **8,815** | **8,840** | **8,839** | **8,839** | **8,839** | **8,839** |
| **SABINE COUNTY TOTAL** | **11,217** | **11,249** | **11,249** | **11,249** | **11,249** | **11,249** |
| SAN AUGUSTINE | 2,121 | 2,121 | 2,121 | 2,121 | 2,121 | 2,121 |
| SAN AUGUSTINE RURAL WSC | 1,196 | 1,196 | 1,196 | 1,196 | 1,196 | 1,196 |
| COUNTY-OTHER | 4,824 | 4,824 | 4,824 | 4,824 | 4,824 | 4,824 |
| **NECHES BASIN TOTAL** | **8,141** | **8,141** | **8,141** | **8,141** | **8,141** | **8,141** |
| G M WSC | 563 | 563 | 563 | 563 | 563 | 563 |
| SAN AUGUSTINE RURAL WSC | 69 | 69 | 69 | 69 | 69 | 69 |
| COUNTY-OTHER | 144 | 144 | 144 | 144 | 144 | 144 |
| **SABINE BASIN TOTAL** | **776** | **776** | **776** | **776** | **776** | **776** |
| **SAN AUGUSTINE COUNTY TOTAL** | **8,917** | **8,917** | **8,917** | **8,917** | **8,917** | **8,917** |
| CHOICE WSC | 292 | 314 | 333 | 352 | 369 | 385 |
| SAND HILLS WSC | 869 | 934 | 992 | 1,047 | 1,098 | 1,145 |
| TIMPSON | 44 | 47 | 50 | 53 | 56 | 58 |
| COUNTY-OTHER | 1,703 | 1,832 | 1,945 | 2,053 | 2,153 | 2,248 |
| **NECHES BASIN TOTAL** | **2,908** | **3,127** | **3,320** | **3,505** | **3,676** | **3,836** |
| CENTER | 5,589 | 6,011 | 6,383 | 6,736 | 7,066 | 7,370 |
| CHOICE WSC | 851 | 914 | 972 | 1,025 | 1,075 | 1,121 |
| EAST LAMAR WSC | 853 | 918 | 975 | 1,029 | 1,079 | 1,125 |
| FIVE WAY WSC | 1,512 | 1,627 | 1,727 | 1,822 | 1,912 | 1,994 |
| FLAT FORK WSC | 1,161 | 1,248 | 1,326 | 1,399 | 1,467 | 1,530 |
| HUXLEY | 2,210 | 2,376 | 2,522 | 2,662 | 2,793 | 2,912 |
| JOAQUIN | 1,176 | 1,264 | 1,343 | 1,416 | 1,487 | 1,550 |
| MCCLELLAND WSC | 1,383 | 1,487 | 1,579 | 1,666 | 1,747 | 1,823 |
| SAND HILLS WSC | 856 | 921 | 978 | 1,032 | 1,082 | 1,128 |
| TENAHA | 1,252 | 1,347 | 1,430 | 1,509 | 1,583 | 1,651 |
| TIMPSON | 1,201 | 1,292 | 1,372 | 1,447 | 1,517 | 1,583 |

# Region I Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | 6,509 | 7,000 | 7,435 | 7,847 | 8,231 | 8,590 |
| **SABINE BASIN TOTAL** | **24,553** | **26,405** | **28,042** | **29,590** | **31,039** | **32,377** |
| **SHELBY COUNTY TOTAL** | **27,461** | **29,532** | **31,362** | **33,095** | **34,715** | **36,213** |
| ALGONQUIN WATER RESOURCES OF TEXAS | 859 | 954 | 1,052 | 1,161 | 1,276 | 1,400 |
| ARP | 1,084 | 1,136 | 1,189 | 1,245 | 1,303 | 1,362 |
| BEN WHEELER WSC | 17 | 19 | 20 | 21 | 22 | 23 |
| BULLARD | 3,674 | 4,714 | 5,757 | 6,881 | 8,024 | 9,197 |
| CARROLL WSC | 855 | 950 | 1,048 | 1,156 | 1,270 | 1,394 |
| CRYSTAL SYSTEMS TEXAS | 1,317 | 1,657 | 2,000 | 2,372 | 2,758 | 3,166 |
| DEAN WSC | 4,725 | 4,905 | 5,087 | 5,281 | 5,480 | 5,683 |
| EMERALD BAY MUD | 1,133 | 1,133 | 1,133 | 1,133 | 1,133 | 1,133 |
| JACKSON WSC | 2,322 | 2,561 | 2,802 | 3,062 | 3,325 | 3,595 |
| LINDALE | 2,099 | 2,704 | 3,311 | 3,964 | 4,629 | 5,311 |
| LINDALE RURAL WSC | 3,815 | 4,149 | 4,484 | 4,846 | 5,212 | 5,591 |
| OVERTON | 149 | 189 | 229 | 271 | 315 | 359 |
| R P M WSC | 262 | 297 | 332 | 369 | 408 | 447 |
| SOUTHERN UTILITIES | 35,552 | 37,774 | 39,984 | 42,376 | 44,796 | 47,271 |
| TROUP | 2,101 | 2,317 | 2,536 | 2,770 | 3,009 | 3,254 |
| TYLER | 104,698 | 113,960 | 123,250 | 133,249 | 143,427 | 153,872 |
| WALNUT GROVE WSC | 8,728 | 10,281 | 11,839 | 13,516 | 15,222 | 16,973 |
| WHITEHOUSE | 9,215 | 10,854 | 12,499 | 14,270 | 16,071 | 17,920 |
| WRIGHT CITY WSC | 2,381 | 2,669 | 2,958 | 3,269 | 3,585 | 3,910 |
| COUNTY-OTHER | 4,034 | 5,356 | 6,686 | 8,100 | 9,538 | 10,998 |
| **NECHES BASIN TOTAL** | **189,020** | **208,579** | **228,196** | **249,312** | **270,803** | **292,859** |
| **SMITH COUNTY TOTAL** | **189,020** | **208,579** | **228,196** | **249,312** | **270,803** | **292,859** |
| CENTERVILLE WSC | 855 | 925 | 932 | 905 | 937 | 981 |
| GROVETON | 518 | 561 | 565 | 550 | 569 | 596 |
| PENNINGTON WSC | 549 | 594 | 599 | 581 | 602 | 629 |
| COUNTY-OTHER | 1,826 | 1,974 | 1,988 | 1,933 | 2,045 | 2,140 |
| **NECHES BASIN TOTAL** | **3,748** | **4,054** | **4,084** | **3,969** | **4,153** | **4,346** |
| **TRINITY COUNTY TOTAL** | **3,748** | **4,054** | **4,084** | **3,969** | **4,153** | **4,346** |
| CHESTER WSC | 872 | 899 | 917 | 932 | 944 | 954 |
| COLMESNEIL | 1,045 | 1,045 | 1,045 | 1,045 | 1,045 | 1,045 |
| CYPRESS CREEK WSC | 592 | 595 | 595 | 595 | 595 | 595 |
| LAKE LIVINGSTON WSC | 29 | 33 | 36 | 40 | 44 | 49 |
| MOSCOW WSC | 15 | 16 | 18 | 19 | 20 | 21 |
| TYLER COUNTY WSC | 5,684 | 5,711 | 5,711 | 5,711 | 5,711 | 5,711 |
| WARREN WSC | 1,371 | 1,377 | 1,377 | 1,377 | 1,377 | 1,377 |
| WILDWOOD POA | 598 | 626 | 645 | 658 | 669 | 678 |
| WOODVILLE | 5,809 | 5,825 | 5,825 | 5,825 | 5,825 | 5,825 |

# Region I Water User Group (WUG) Population

| | WUG POPULATION | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | 6,273 | 6,269 | 6,227 | 6,194 | 6,166 | 6,141 |
| **NECHES BASIN TOTAL** | **22,288** | **22,396** | **22,396** | **22,396** | **22,396** | **22,396** |
| **TYLER COUNTY TOTAL** | **22,288** | **22,396** | **22,396** | **22,396** | **22,396** | **22,396** |
| **REGION I TOTAL POPULATION** | **1,151,556** | **1,233,973** | **1,309,681** | **1,388,867** | **1,469,843** | **1,553,652** |

## Attachment 2

## TWDB DB22 Report #2. WUG Water Demand Projections

# Region I Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| BRUSHY CREEK WSC | 181 | 177 | 171 | 167 | 166 | 166 |
| FRANKSTON | 238 | 240 | 238 | 235 | 235 | 235 |
| FRANKSTON RURAL WSC | 171 | 171 | 168 | 166 | 166 | 166 |
| NECHES WSC | 199 | 199 | 196 | 193 | 192 | 192 |
| NORWOOD WSC | 129 | 126 | 124 | 123 | 123 | 123 |
| PALESTINE | 2,512 | 2,548 | 2,542 | 2,522 | 2,519 | 2,519 |
| SLOCUM WSC | 258 | 257 | 252 | 249 | 248 | 248 |
| WALSTON SPRINGS WSC | 263 | 260 | 255 | 250 | 249 | 249 |
| COUNTY-OTHER | 87 | 88 | 87 | 86 | 86 | 86 |
| MINING | 64 | 81 | 85 | 67 | 48 | 34 |
| STEAM ELECTRIC POWER | 1,408 | 1,408 | 1,408 | 1,408 | 1,408 | 1,408 |
| LIVESTOCK | 474 | 474 | 474 | 474 | 474 | 474 |
| IRRIGATION | 288 | 288 | 288 | 288 | 288 | 288 |
| **NECHES BASIN TOTAL** | **6,272** | **6,317** | **6,288** | **6,228** | **6,202** | **6,188** |
| ANDERSON COUNTY CEDAR CREEK WSC | 101 | 100 | 98 | 96 | 96 | 96 |
| B B S WSC | 131 | 130 | 127 | 124 | 124 | 124 |
| B C Y WSC | 220 | 212 | 206 | 202 | 202 | 202 |
| BRUSHY CREEK WSC | 107 | 104 | 101 | 98 | 98 | 98 |
| ELKHART | 249 | 251 | 249 | 246 | 246 | 246 |
| FOUR PINES WSC | 336 | 335 | 331 | 326 | 325 | 325 |
| NORWOOD WSC | 9 | 9 | 9 | 9 | 9 | 9 |
| PALESTINE | 2,384 | 2,418 | 2,411 | 2,393 | 2,390 | 2,390 |
| PLEASANT SPRINGS WSC | 169 | 171 | 169 | 167 | 167 | 167 |
| SLOCUM WSC | 27 | 27 | 27 | 26 | 26 | 26 |
| TDCJ BETO GURNEY & POWLEDGE UNITS | 1,129 | 1,150 | 1,152 | 1,145 | 1,144 | 1,144 |
| TDCJ COFFIELD MICHAEL | 3,116 | 3,195 | 3,214 | 3,205 | 3,203 | 3,203 |
| THE CONSOLIDATED WSC | 129 | 129 | 126 | 124 | 124 | 123 |
| TUCKER WSC | 127 | 126 | 124 | 122 | 121 | 121 |
| WALSTON SPRINGS WSC | 105 | 104 | 102 | 100 | 100 | 100 |
| COUNTY-OTHER | 820 | 832 | 825 | 814 | 811 | 811 |
| MINING | 76 | 96 | 100 | 80 | 57 | 41 |
| LIVESTOCK | 552 | 552 | 552 | 552 | 552 | 552 |
| IRRIGATION | 369 | 369 | 369 | 369 | 369 | 369 |
| **TRINITY BASIN TOTAL** | **10,156** | **10,310** | **10,292** | **10,198** | **10,164** | **10,147** |
| **ANDERSON COUNTY TOTAL** | **16,428** | **16,627** | **16,580** | **16,426** | **16,366** | **16,335** |
| ANGELINA WSC | 251 | 251 | 254 | 265 | 274 | 284 |
| CENTRAL WCID OF ANGELINA COUNTY | 510 | 527 | 555 | 582 | 605 | 626 |
| DIBOLL | 738 | 758 | 776 | 811 | 841 | 870 |
| FOUR WAY SUD | 484 | 502 | 520 | 538 | 558 | 577 |
| HUDSON WSC | 644 | 689 | 727 | 762 | 793 | 820 |
| HUNTINGTON | 254 | 259 | 264 | 271 | 281 | 291 |
| LUFKIN | 7,253 | 7,545 | 7,792 | 8,073 | 8,382 | 8,668 |
| M & M WSC | 283 | 286 | 290 | 300 | 310 | 321 |
| POLLOK-REDTOWN WSC | 162 | 166 | 170 | 176 | 184 | 191 |
| REDLAND WSC | 203 | 201 | 210 | 219 | 227 | 235 |
| UPPER JASPER COUNTY WATER AUTHORITY | 11 | 11 | 10 | 10 | 10 | 10 |
| WOODLAWN WSC | 163 | 165 | 168 | 173 | 180 | 186 |

# Region I Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| ZAVALLA | 85 | 87 | 89 | 91 | 95 | 98 |
| COUNTY-OTHER | 641 | 653 | 668 | 697 | 722 | 746 |
| MANUFACTURING | 3,658 | 3,878 | 3,878 | 3,878 | 3,878 | 3,878 |
| MINING | 486 | 585 | 410 | 312 | 237 | 180 |
| STEAM ELECTRIC POWER | 3,520 | 3,520 | 3,520 | 3,520 | 3,520 | 3,520 |
| LIVESTOCK | 1,028 | 1,028 | 1,028 | 1,028 | 1,028 | 1,028 |
| IRRIGATION | 779 | 779 | 779 | 779 | 779 | 779 |
| **NECHES BASIN TOTAL** | **21,153** | **21,890** | **22,108** | **22,485** | **22,904** | **23,308** |
| **ANGELINA COUNTY TOTAL** | **21,153** | **21,890** | **22,108** | **22,485** | **22,904** | **23,308** |
| AFTON GROVE WSC | 189 | 202 | 215 | 234 | 254 | 277 |
| ALTO | 236 | 253 | 270 | 293 | 319 | 347 |
| ALTO RURAL WSC | 637 | 677 | 734 | 801 | 873 | 951 |
| BLACKJACK WSC | 138 | 147 | 158 | 171 | 186 | 203 |
| BULLARD | 11 | 12 | 13 | 15 | 16 | 17 |
| CRAFT TURNEY WSC | 485 | 503 | 524 | 562 | 610 | 665 |
| GUM CREEK WSC | 129 | 134 | 142 | 153 | 167 | 181 |
| JACKSONVILLE | 3,045 | 3,247 | 3,457 | 3,745 | 4,076 | 4,440 |
| NEW SUMMERFIELD | 158 | 169 | 180 | 195 | 212 | 231 |
| NORTH CHEROKEE WSC | 601 | 640 | 680 | 736 | 801 | 872 |
| POLLOK-REDTOWN WSC | 14 | 14 | 15 | 15 | 16 | 17 |
| RUSK | 1,041 | 1,112 | 1,186 | 1,286 | 1,400 | 1,525 |
| RUSK RURAL WSC | 301 | 316 | 332 | 358 | 388 | 423 |
| SOUTH RUSK COUNTY WSC | 6 | 7 | 7 | 8 | 8 | 9 |
| SOUTHERN UTILITIES | 712 | 749 | 791 | 847 | 914 | 991 |
| TROUP | 15 | 16 | 17 | 19 | 20 | 22 |
| WELLS | 141 | 150 | 159 | 172 | 187 | 204 |
| WEST JACKSONVILLE WSC | 165 | 175 | 187 | 203 | 221 | 241 |
| WRIGHT CITY WSC | 69 | 73 | 77 | 83 | 91 | 99 |
| COUNTY-OTHER | 238 | 260 | 281 | 311 | 344 | 380 |
| MANUFACTURING | 115 | 129 | 129 | 129 | 129 | 129 |
| MINING | 295 | 304 | 267 | 204 | 141 | 97 |
| STEAM ELECTRIC POWER | 3,211 | 3,211 | 3,211 | 3,211 | 3,211 | 3,211 |
| LIVESTOCK | 1,874 | 1,874 | 1,874 | 1,874 | 1,874 | 1,874 |
| IRRIGATION | 451 | 451 | 451 | 451 | 451 | 451 |
| **NECHES BASIN TOTAL** | **14,277** | **14,825** | **15,357** | **16,076** | **16,909** | **17,857** |
| **CHEROKEE COUNTY TOTAL** | **14,277** | **14,825** | **15,357** | **16,076** | **16,909** | **17,857** |
| HARDIN COUNTY WCID 1 | 131 | 134 | 136 | 138 | 141 | 143 |
| KOUNTZE | 255 | 246 | 238 | 234 | 234 | 234 |
| LUMBERTON MUD | 2,610 | 2,805 | 2,929 | 3,032 | 3,137 | 3,222 |
| NORTH HARDIN WSC | 543 | 561 | 586 | 604 | 619 | 630 |
| SILSBEE | 944 | 931 | 918 | 913 | 919 | 925 |
| SOUR LAKE | 279 | 285 | 288 | 292 | 297 | 301 |
| WEST HARDIN WSC | 235 | 236 | 237 | 237 | 238 | 238 |
| WILDWOOD POA | 156 | 160 | 162 | 164 | 166 | 168 |
| COUNTY-OTHER | 699 | 686 | 674 | 678 | 681 | 687 |
| MANUFACTURING | 40 | 45 | 45 | 45 | 45 | 45 |

# Region I Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| MINING | 12 | 12 | 12 | 12 | 12 | 12 |
| STEAM ELECTRIC POWER | 1 | 1 | 1 | 1 | 1 | 1 |
| LIVESTOCK | 196 | 196 | 196 | 196 | 196 | 196 |
| IRRIGATION | 989 | 989 | 989 | 989 | 989 | 989 |
| **NECHES BASIN TOTAL** | **7,090** | **7,287** | **7,411** | **7,535** | **7,675** | **7,791** |
| LAKE LIVINGSTON WSC | 7 | 8 | 8 | 9 | 10 | 11 |
| WEST HARDIN WSC | 3 | 3 | 3 | 3 | 3 | 3 |
| COUNTY-OTHER | 11 | 10 | 10 | 10 | 10 | 10 |
| LIVESTOCK | 2 | 2 | 2 | 2 | 2 | 2 |
| **TRINITY BASIN TOTAL** | **23** | **23** | **23** | **24** | **25** | **26** |
| **HARDIN COUNTY TOTAL** | **7,113** | **7,310** | **7,434** | **7,559** | **7,700** | **7,817** |
| ATHENS | 56 | 59 | 61 | 65 | 68 | 72 |
| BERRYVILLE | 118 | 124 | 129 | 138 | 147 | 157 |
| BETHEL ASH WSC | 321 | 350 | 376 | 414 | 450 | 486 |
| BROWNSBORO | 218 | 259 | 295 | 343 | 386 | 428 |
| BRUSHY CREEK WSC | 79 | 80 | 81 | 84 | 89 | 93 |
| CHANDLER | 627 | 746 | 846 | 984 | 1,107 | 1,226 |
| EDOM WSC | 22 | 23 | 24 | 26 | 27 | 30 |
| FRANKSTON | 8 | 12 | 16 | 20 | 24 | 27 |
| LEAGUEVILLE WSC | 215 | 221 | 233 | 250 | 313 | 397 |
| MOORE STATION WSC | 183 | 189 | 200 | 215 | 269 | 342 |
| MURCHISON | 94 | 91 | 89 | 88 | 88 | 89 |
| R P M WSC | 69 | 79 | 88 | 101 | 112 | 123 |
| VIRGINIA HILL WSC | 166 | 182 | 195 | 217 | 237 | 257 |
| COUNTY-OTHER | 700 | 613 | 538 | 482 | 367 | 226 |
| MINING | 77 | 86 | 77 | 59 | 40 | 28 |
| LIVESTOCK | 1,006 | 1,006 | 1,006 | 1,006 | 1,006 | 1,006 |
| IRRIGATION | 303 | 303 | 303 | 303 | 303 | 303 |
| **NECHES BASIN TOTAL** | **4,262** | **4,423** | **4,557** | **4,795** | **5,033** | **5,290** |
| **HENDERSON COUNTY TOTAL** | **4,262** | **4,423** | **4,557** | **4,795** | **5,033** | **5,290** |
| GRAPELAND | 83 | 81 | 79 | 77 | 77 | 77 |
| PENNINGTON WSC | 29 | 28 | 28 | 27 | 27 | 27 |
| THE CONSOLIDATED WSC | 325 | 315 | 305 | 300 | 299 | 299 |
| COUNTY-OTHER | 126 | 120 | 118 | 118 | 118 | 118 |
| MANUFACTURING | 7 | 10 | 10 | 10 | 10 | 10 |
| MINING | 113 | 89 | 66 | 42 | 18 | 8 |
| LIVESTOCK | 441 | 482 | 525 | 572 | 623 | 688 |
| IRRIGATION | 387 | 387 | 387 | 387 | 387 | 387 |
| **NECHES BASIN TOTAL** | **1,511** | **1,512** | **1,518** | **1,533** | **1,559** | **1,614** |
| CROCKETT | 1,280 | 1,253 | 1,225 | 1,211 | 1,208 | 1,208 |
| GRAPELAND | 128 | 124 | 121 | 120 | 119 | 119 |
| LOVELADY | 132 | 130 | 128 | 127 | 126 | 126 |
| PENNINGTON WSC | 53 | 51 | 49 | 49 | 48 | 48 |
| TDCJ EASTHAM UNIT | 1,098 | 1,088 | 1,079 | 1,075 | 1,074 | 1,074 |
| THE CONSOLIDATED WSC | 885 | 859 | 834 | 820 | 817 | 817 |
| COUNTY-OTHER | 25 | 24 | 23 | 23 | 23 | 23 |
| MANUFACTURING | 162 | 222 | 222 | 222 | 222 | 222 |

# Region I Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| MINING | 209 | 165 | 121 | 77 | 33 | 14 |
| LIVESTOCK | 1,123 | 1,225 | 1,335 | 1,455 | 1,585 | 1,751 |
| IRRIGATION | 1,750 | 1,750 | 1,750 | 1,750 | 1,750 | 1,750 |
| **TRINITY BASIN TOTAL** | **6,845** | **6,891** | **6,887** | **6,929** | **7,005** | **7,152** |
| **HOUSTON COUNTY TOTAL** | **8,356** | **8,403** | **8,405** | **8,462** | **8,564** | **8,766** |
| BROOKELAND FWSD | 39 | 38 | 37 | 36 | 36 | 36 |
| JASPER | 1,963 | 1,963 | 1,937 | 1,918 | 1,915 | 1,915 |
| RAYBURN COUNTRY MUD | 178 | 174 | 170 | 167 | 167 | 167 |
| RURAL WSC | 107 | 105 | 102 | 101 | 100 | 100 |
| SOUTH JASPER COUNTY WSC | 31 | 30 | 28 | 28 | 28 | 28 |
| UPPER JASPER COUNTY WATER AUTHORITY | 145 | 143 | 140 | 139 | 139 | 139 |
| COUNTY-OTHER | 877 | 861 | 836 | 821 | 817 | 817 |
| MANUFACTURING | 45,841 | 57,200 | 57,200 | 57,200 | 57,200 | 57,200 |
| MINING | 70 | 56 | 42 | 27 | 13 | 7 |
| LIVESTOCK | 6,354 | 6,354 | 6,354 | 6,354 | 6,354 | 6,354 |
| IRRIGATION | 94 | 94 | 94 | 94 | 94 | 94 |
| **NECHES BASIN TOTAL** | **55,699** | **67,018** | **66,940** | **66,885** | **66,863** | **66,857** |
| JASPER COUNTY WCID 1 | 204 | 192 | 188 | 188 | 188 | 188 |
| KIRBYVILLE | 402 | 401 | 395 | 391 | 390 | 390 |
| MAURICEVILLE SUD | 30 | 30 | 30 | 30 | 30 | 30 |
| SOUTH JASPER COUNTY WSC | 88 | 84 | 82 | 82 | 82 | 82 |
| UPPER JASPER COUNTY WATER AUTHORITY | 55 | 55 | 54 | 53 | 53 | 53 |
| COUNTY-OTHER | 821 | 806 | 784 | 769 | 766 | 766 |
| MANUFACTURING | 132 | 164 | 164 | 164 | 164 | 164 |
| MINING | 78 | 62 | 46 | 31 | 15 | 7 |
| LIVESTOCK | 3,646 | 3,646 | 3,646 | 3,646 | 3,646 | 3,646 |
| IRRIGATION | 57 | 57 | 57 | 57 | 57 | 57 |
| **SABINE BASIN TOTAL** | **5,513** | **5,497** | **5,446** | **5,411** | **5,391** | **5,383** |
| **JASPER COUNTY TOTAL** | **61,212** | **72,515** | **72,386** | **72,296** | **72,254** | **72,240** |
| BEAUMONT | 10,049 | 10,480 | 10,974 | 11,642 | 12,457 | 13,385 |
| BEVIL OAKS | 134 | 135 | 138 | 146 | 156 | 167 |
| CHINA | 3 | 3 | 3 | 3 | 3 | 3 |
| GROVES | 69 | 66 | 64 | 64 | 63 | 63 |
| JEFFERSON COUNTY WCID 10 | 82 | 83 | 85 | 89 | 95 | 102 |
| MEEKER MWD | 108 | 111 | 116 | 122 | 131 | 140 |
| NEDERLAND | 88 | 90 | 93 | 98 | 105 | 112 |
| PORT ARTHUR | 58 | 58 | 57 | 57 | 57 | 57 |
| PORT NECHES | 744 | 754 | 771 | 809 | 864 | 928 |
| COUNTY-OTHER | 162 | 213 | 276 | 351 | 435 | 530 |
| MANUFACTURING | 109,387 | 126,100 | 126,100 | 126,100 | 126,100 | 126,100 |
| MINING | 128 | 143 | 161 | 194 | 217 | 243 |
| LIVESTOCK | 67 | 67 | 67 | 67 | 67 | 67 |
| IRRIGATION | 6,198 | 6,198 | 6,198 | 6,198 | 6,198 | 6,198 |
| **NECHES BASIN TOTAL** | **127,277** | **144,501** | **145,103** | **145,940** | **146,948** | **148,095** |
| BEAUMONT | 20,739 | 21,630 | 22,649 | 24,029 | 25,711 | 27,627 |
| CHINA | 139 | 142 | 147 | 154 | 165 | 177 |

# Region I Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| GROVES | 2,149 | 2,075 | 2,012 | 1,987 | 1,982 | 1,982 |
| JEFFERSON COUNTY WCID 10 | 411 | 416 | 425 | 445 | 475 | 510 |
| MEEKER MWD | 323 | 333 | 346 | 366 | 390 | 420 |
| NEDERLAND | 2,348 | 2,408 | 2,487 | 2,620 | 2,799 | 3,007 |
| PORT ARTHUR | 19,176 | 19,147 | 18,927 | 18,882 | 18,863 | 18,862 |
| PORT NECHES | 687 | 696 | 713 | 748 | 798 | 857 |
| WEST JEFFERSON COUNTY MWD | 741 | 752 | 771 | 809 | 863 | 926 |
| COUNTY-OTHER | 1,914 | 2,520 | 3,265 | 4,152 | 5,151 | 6,272 |
| MANUFACTURING | 93,515 | 107,802 | 107,802 | 107,802 | 107,802 | 107,802 |
| MINING | 66 | 73 | 83 | 100 | 112 | 125 |
| STEAM ELECTRIC POWER | 3,291 | 3,291 | 3,291 | 3,291 | 3,291 | 3,291 |
| LIVESTOCK | 770 | 770 | 770 | 770 | 770 | 770 |
| IRRIGATION | 82,338 | 82,338 | 82,338 | 82,338 | 82,338 | 82,338 |
| **NECHES-TRINITY BASIN TOTAL** | **228,607** | **244,393** | **246,026** | **248,493** | **251,510** | **254,966** |
| **JEFFERSON COUNTY TOTAL** | **355,884** | **388,894** | **391,129** | **394,433** | **398,458** | **403,061** |
| APPLEBY WSC | 658 | 722 | 787 | 862 | 946 | 1,035 |
| CARO WSC | 254 | 272 | 292 | 317 | 347 | 380 |
| CUSHING | 166 | 181 | 197 | 216 | 237 | 259 |
| D & M WSC | 904 | 993 | 1,086 | 1,189 | 1,305 | 1,428 |
| ETOILE WSC | 255 | 275 | 297 | 323 | 354 | 387 |
| GARRISON | 252 | 277 | 302 | 331 | 363 | 397 |
| LILLY GROVE SUD | 369 | 404 | 440 | 481 | 528 | 577 |
| MELROSE WSC | 410 | 447 | 485 | 529 | 581 | 635 |
| NACOGDOCHES | 6,868 | 7,514 | 8,177 | 8,945 | 9,818 | 10,742 |
| SWIFT WSC | 424 | 461 | 499 | 545 | 598 | 654 |
| WODEN WSC | 340 | 368 | 396 | 432 | 473 | 518 |
| COUNTY-OTHER | 686 | 749 | 827 | 909 | 996 | 1,090 |
| MANUFACTURING | 2,508 | 2,529 | 2,529 | 2,529 | 2,529 | 2,529 |
| MINING | 7,000 | 4,500 | 1,643 | 1,299 | 958 | 707 |
| LIVESTOCK | 9,693 | 10,122 | 10,619 | 11,195 | 11,854 | 12,836 |
| IRRIGATION | 266 | 266 | 266 | 266 | 266 | 266 |
| **NECHES BASIN TOTAL** | **31,053** | **30,080** | **28,842** | **30,368** | **32,153** | **34,440** |
| **NACOGDOCHES COUNTY TOTAL** | **31,053** | **30,080** | **28,842** | **30,368** | **32,153** | **34,440** |
| BROOKELAND FWSD | 104 | 101 | 99 | 97 | 97 | 97 |
| MAURICEVILLE SUD | 27 | 26 | 26 | 26 | 26 | 26 |
| NEWTON | 443 | 433 | 425 | 421 | 420 | 420 |
| SOUTH NEWTON WSC | 167 | 167 | 167 | 167 | 167 | 167 |
| COUNTY-OTHER | 886 | 846 | 811 | 803 | 800 | 800 |
| MANUFACTURING | 52 | 56 | 56 | 56 | 56 | 56 |
| MINING | 429 | 373 | 279 | 209 | 146 | 107 |
| STEAM ELECTRIC POWER | 5,778 | 5,778 | 5,778 | 5,778 | 5,778 | 5,778 |
| LIVESTOCK | 168 | 168 | 168 | 168 | 168 | 168 |
| IRRIGATION | 101 | 101 | 101 | 101 | 101 | 101 |
| **SABINE BASIN TOTAL** | **8,155** | **8,049** | **7,910** | **7,826** | **7,759** | **7,720** |
| **NEWTON COUNTY TOTAL** | **8,155** | **8,049** | **7,910** | **7,826** | **7,759** | **7,720** |
| BRIDGE CITY | 120 | 118 | 116 | 117 | 118 | 119 |

# Region I Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| KELLY G BREWER | 41 | 42 | 42 | 43 | 44 | 44 |
| MAURICEVILLE SUD | 49 | 49 | 51 | 52 | 53 | 53 |
| ORANGE COUNTY WCID 1 | 1,553 | 1,569 | 1,576 | 1,595 | 1,614 | 1,631 |
| ORANGEFIELD WSC | 175 | 179 | 182 | 184 | 186 | 188 |
| PORT ARTHUR | 2 | 2 | 2 | 2 | 2 | 2 |
| COUNTY-OTHER | 1,231 | 1,220 | 1,252 | 1,274 | 1,289 | 1,302 |
| MANUFACTURING | 542 | 589 | 589 | 589 | 589 | 589 |
| MINING | 139 | 141 | 141 | 141 | 143 | 147 |
| LIVESTOCK | 83 | 83 | 83 | 83 | 83 | 83 |
| **NECHES BASIN TOTAL** | **3,935** | **3,992** | **4,034** | **4,080** | **4,121** | **4,158** |
| BRIDGE CITY | 80 | 78 | 77 | 78 | 79 | 80 |
| COUNTY-OTHER | 11 | 11 | 12 | 12 | 12 | 12 |
| **NECHES-TRINITY BASIN TOTAL** | **91** | **89** | **89** | **90** | **91** | **92** |
| BRIDGE CITY | 596 | 588 | 577 | 583 | 589 | 596 |
| KELLY G BREWER | 36 | 36 | 37 | 37 | 37 | 38 |
| MAURICEVILLE SUD | 588 | 591 | 608 | 621 | 630 | 637 |
| ORANGE | 2,626 | 2,644 | 2,645 | 2,663 | 2,696 | 2,724 |
| ORANGE COUNTY WCID 2 | 494 | 500 | 504 | 510 | 517 | 522 |
| ORANGEFIELD WSC | 274 | 280 | 284 | 287 | 291 | 294 |
| PINEHURST | 284 | 284 | 285 | 290 | 293 | 296 |
| SOUTH NEWTON WSC | 94 | 98 | 101 | 103 | 105 | 106 |
| COUNTY-OTHER | 1,458 | 1,445 | 1,483 | 1,508 | 1,526 | 1,542 |
| MANUFACTURING | 43,793 | 47,604 | 47,604 | 47,604 | 47,604 | 47,604 |
| MINING | 170 | 173 | 172 | 173 | 176 | 180 |
| STEAM ELECTRIC POWER | 4,298 | 4,298 | 4,298 | 4,298 | 4,298 | 4,298 |
| LIVESTOCK | 172 | 172 | 172 | 172 | 172 | 172 |
| IRRIGATION | 1,824 | 1,824 | 1,824 | 1,824 | 1,824 | 1,824 |
| **SABINE BASIN TOTAL** | **56,707** | **60,537** | **60,594** | **60,673** | **60,758** | **60,833** |
| **ORANGE COUNTY TOTAL** | **60,733** | **64,618** | **64,717** | **64,843** | **64,970** | **65,083** |
| COUNTY-OTHER | 6 | 6 | 6 | 6 | 6 | 6 |
| MINING | 6 | 6 | 5 | 4 | 4 | 4 |
| LIVESTOCK | 27 | 27 | 27 | 27 | 27 | 27 |
| **CYPRESS BASIN TOTAL** | **39** | **39** | **38** | **37** | **37** | **37** |
| BECKVILLE | 136 | 147 | 153 | 160 | 166 | 171 |
| CARTHAGE | 1,650 | 1,651 | 1,644 | 1,648 | 1,659 | 1,669 |
| GILL WSC | 94 | 93 | 91 | 92 | 93 | 94 |
| MINDEN BRACHFIELD WSC | 4 | 4 | 5 | 5 | 6 | 6 |
| PANOLA-BETHANY WSC | 18 | 21 | 25 | 32 | 36 | 40 |
| TATUM | 63 | 73 | 79 | 85 | 89 | 93 |
| COUNTY-OTHER | 1,589 | 1,602 | 1,594 | 1,607 | 1,633 | 1,658 |
| MANUFACTURING | 852 | 1,272 | 1,272 | 1,272 | 1,272 | 1,272 |
| MINING | 5,910 | 5,853 | 5,044 | 4,264 | 3,616 | 3,934 |
| LIVESTOCK | 2,625 | 2,625 | 2,625 | 2,625 | 2,625 | 2,625 |
| IRRIGATION | 574 | 574 | 574 | 574 | 574 | 574 |
| **SABINE BASIN TOTAL** | **13,515** | **13,915** | **13,106** | **12,364** | **11,769** | **12,136** |
| **PANOLA COUNTY TOTAL** | **13,554** | **13,954** | **13,144** | **12,401** | **11,806** | **12,173** |
| CHESTER WSC | 39 | 39 | 39 | 39 | 39 | 40 |

# Region I Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| CORRIGAN | 231 | 248 | 260 | 276 | 288 | 299 |
| DAMASCUS-STRYKER WSC | 194 | 210 | 222 | 234 | 245 | 254 |
| LAKE LIVINGSTON WSC | 68 | 76 | 84 | 93 | 102 | 112 |
| MOSCOW WSC | 52 | 57 | 60 | 64 | 67 | 69 |
| SODA WSC | 11 | 12 | 12 | 13 | 13 | 14 |
| COUNTY-OTHER | 397 | 428 | 449 | 468 | 483 | 494 |
| MANUFACTURING | 433 | 466 | 466 | 466 | 466 | 466 |
| MINING | 123 | 97 | 72 | 46 | 20 | 9 |
| LIVESTOCK | 174 | 174 | 174 | 174 | 174 | 174 |
| IRRIGATION | 230 | 230 | 230 | 230 | 230 | 230 |
| **NECHES BASIN TOTAL** | **1,952** | **2,037** | **2,068** | **2,103** | **2,127** | **2,161** |
| **POLK COUNTY TOTAL** | **1,952** | **2,037** | **2,068** | **2,103** | **2,127** | **2,161** |
| EBENEZER WSC | 130 | 141 | 152 | 165 | 180 | 196 |
| GASTON WSC | 192 | 205 | 220 | 238 | 259 | 282 |
| GOODSPRINGS WSC | 260 | 275 | 292 | 315 | 343 | 372 |
| HENDERSON | 3,187 | 3,491 | 3,795 | 4,140 | 4,516 | 4,911 |
| JACOBS WSC | 10 | 11 | 11 | 12 | 13 | 15 |
| MINDEN BRACHFIELD WSC | 69 | 77 | 85 | 93 | 101 | 110 |
| MT ENTERPRISE WSC | 305 | 330 | 356 | 387 | 422 | 459 |
| NEW LONDON | 482 | 529 | 576 | 629 | 687 | 747 |
| OVERTON | 60 | 65 | 71 | 77 | 84 | 91 |
| SOUTH RUSK COUNTY WSC | 188 | 200 | 213 | 230 | 250 | 272 |
| WRIGHT CITY WSC | 57 | 61 | 66 | 71 | 78 | 84 |
| COUNTY-OTHER | 533 | 568 | 605 | 654 | 711 | 771 |
| MANUFACTURING | 30 | 32 | 32 | 32 | 32 | 32 |
| MINING | 1,555 | 2,084 | 2,013 | 1,937 | 1,873 | 1,868 |
| STEAM ELECTRIC POWER | 4,493 | 4,493 | 4,493 | 4,493 | 4,493 | 4,493 |
| LIVESTOCK | 928 | 941 | 959 | 976 | 994 | 994 |
| IRRIGATION | 155 | 155 | 155 | 155 | 155 | 155 |
| **NECHES BASIN TOTAL** | **12,634** | **13,658** | **14,094** | **14,604** | **15,191** | **15,852** |
| CHALK HILL SUD | 332 | 352 | 375 | 404 | 440 | 478 |
| CROSS ROADS SUD | 259 | 273 | 288 | 310 | 337 | 366 |
| CRYSTAL FARMS WSC | 104 | 111 | 118 | 127 | 139 | 151 |
| ELDERVILLE WSC | 128 | 141 | 155 | 170 | 188 | 207 |
| HENDERSON | 554 | 607 | 659 | 719 | 785 | 853 |
| JACOBS WSC | 273 | 292 | 314 | 340 | 370 | 402 |
| KILGORE | 717 | 783 | 848 | 924 | 1,008 | 1,095 |
| MINDEN BRACHFIELD WSC | 31 | 34 | 38 | 42 | 46 | 50 |
| NEW LONDON | 388 | 426 | 464 | 507 | 553 | 601 |
| NEW PROSPECT WSC | 91 | 96 | 101 | 109 | 118 | 129 |
| OVERTON | 494 | 539 | 583 | 636 | 693 | 754 |
| SOUTHERN UTILITIES | 72 | 75 | 80 | 85 | 92 | 100 |
| TATUM | 234 | 254 | 275 | 300 | 327 | 355 |
| WEST GREGG SUD | 16 | 17 | 18 | 20 | 22 | 23 |
| COUNTY-OTHER | 509 | 543 | 577 | 624 | 679 | 736 |
| MANUFACTURING | 2 | 2 | 2 | 2 | 2 | 2 |

# Region I Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| MINING | 1,435 | 1,923 | 1,857 | 1,787 | 1,728 | 1,724 |
| STEAM ELECTRIC POWER | 40,811 | 40,811 | 40,811 | 40,811 | 40,811 | 40,811 |
| LIVESTOCK | 732 | 742 | 755 | 769 | 783 | 783 |
| IRRIGATION | 121 | 121 | 121 | 121 | 121 | 121 |
| **SABINE BASIN TOTAL** | **47,303** | **48,142** | **48,439** | **48,807** | **49,242** | **49,741** |
| **RUSK COUNTY TOTAL** | **59,937** | **61,800** | **62,533** | **63,411** | **64,433** | **65,593** |
| BROOKELAND FWSD | 67 | 65 | 63 | 62 | 62 | 62 |
| G M WSC | 54 | 54 | 54 | 54 | 54 | 54 |
| PINELAND | 90 | 86 | 82 | 81 | 81 | 81 |
| COUNTY-OTHER | 6 | 5 | 5 | 5 | 5 | 5 |
| MANUFACTURING | 246 | 265 | 265 | 265 | 265 | 265 |
| MINING | 240 | 218 | 192 | 167 | 142 | 124 |
| LIVESTOCK | 20 | 28 | 36 | 46 | 57 | 57 |
| **NECHES BASIN TOTAL** | **723** | **721** | **697** | **680** | **666** | **648** |
| BROOKELAND FWSD | 9 | 9 | 9 | 9 | 9 | 9 |
| G M WSC | 400 | 400 | 400 | 400 | 400 | 400 |
| HEMPHILL | 305 | 302 | 297 | 295 | 294 | 294 |
| COUNTY-OTHER | 128 | 122 | 116 | 115 | 115 | 115 |
| MINING | 1,260 | 1,147 | 1,011 | 879 | 746 | 652 |
| LIVESTOCK | 109 | 148 | 195 | 248 | 306 | 306 |
| **SABINE BASIN TOTAL** | **2,211** | **2,128** | **2,028** | **1,946** | **1,870** | **1,776** |
| **SABINE COUNTY TOTAL** | **2,934** | **2,849** | **2,725** | **2,626** | **2,536** | **2,424** |
| SAN AUGUSTINE | 519 | 508 | 499 | 498 | 498 | 498 |
| SAN AUGUSTINE RURAL WSC | 113 | 108 | 104 | 102 | 102 | 102 |
| COUNTY-OTHER | 467 | 448 | 432 | 423 | 421 | 421 |
| MANUFACTURING | 6 | 6 | 6 | 6 | 6 | 6 |
| MINING | 3,800 | 2,850 | 1,405 | 1,121 | 840 | 629 |
| LIVESTOCK | 1,811 | 2,005 | 2,228 | 2,486 | 2,771 | 2,771 |
| IRRIGATION | 4 | 4 | 4 | 4 | 4 | 4 |
| **NECHES BASIN TOTAL** | **6,720** | **5,929** | **4,678** | **4,640** | **4,642** | **4,431** |
| G M WSC | 38 | 38 | 38 | 38 | 38 | 38 |
| SAN AUGUSTINE RURAL WSC | 7 | 6 | 6 | 6 | 6 | 6 |
| COUNTY-OTHER | 14 | 13 | 13 | 13 | 13 | 13 |
| MINING | 200 | 150 | 74 | 59 | 44 | 33 |
| LIVESTOCK | 193 | 214 | 237 | 265 | 295 | 295 |
| **SABINE BASIN TOTAL** | **452** | **421** | **368** | **381** | **396** | **385** |
| **SAN AUGUSTINE COUNTY TOTAL** | **7,172** | **6,350** | **5,046** | **5,021** | **5,038** | **4,816** |
| CHOICE WSC | 32 | 33 | 34 | 36 | 37 | 39 |
| SAND HILLS WSC | 150 | 156 | 163 | 170 | 178 | 186 |
| TIMPSON | 6 | 7 | 7 | 7 | 7 | 8 |
| COUNTY-OTHER | 186 | 192 | 198 | 206 | 215 | 224 |
| MINING | 919 | 822 | 699 | 554 | 411 | 304 |
| LIVESTOCK | 2,266 | 2,699 | 3,227 | 3,872 | 4,657 | 4,657 |
| IRRIGATION | 3 | 3 | 3 | 3 | 3 | 3 |
| **NECHES BASIN TOTAL** | **3,562** | **3,912** | **4,331** | **4,848** | **5,508** | **5,421** |
| CENTER | 1,842 | 1,952 | 2,050 | 2,152 | 2,255 | 2,351 |

# Region I Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| CHOICE WSC | 95 | 98 | 100 | 104 | 109 | 113 |
| EAST LAMAR WSC | 109 | 113 | 117 | 122 | 127 | 133 |
| FIVE WAY WSC | 163 | 168 | 172 | 179 | 187 | 195 |
| FLAT FORK WSC | 129 | 133 | 136 | 142 | 149 | 155 |
| HUXLEY | 285 | 295 | 304 | 318 | 333 | 347 |
| JOAQUIN | 180 | 187 | 194 | 203 | 213 | 222 |
| MCCLELLAND WSC | 216 | 225 | 234 | 244 | 256 | 267 |
| SAND HILLS WSC | 147 | 154 | 160 | 168 | 176 | 183 |
| TENAHA | 227 | 237 | 247 | 258 | 271 | 282 |
| TIMPSON | 172 | 178 | 185 | 193 | 202 | 210 |
| COUNTY-OTHER | 712 | 735 | 758 | 787 | 823 | 858 |
| MANUFACTURING | 1,696 | 1,696 | 1,696 | 1,696 | 1,696 | 1,696 |
| MINING | 2,364 | 2,116 | 1,797 | 1,426 | 1,056 | 783 |
| LIVESTOCK | 9,592 | 11,429 | 13,664 | 16,391 | 19,716 | 19,716 |
| IRRIGATION | 7 | 7 | 7 | 7 | 7 | 7 |
| **SABINE BASIN TOTAL** | **17,936** | **19,723** | **21,821** | **24,390** | **27,576** | **27,518** |
| **SHELBY COUNTY TOTAL** | **21,498** | **23,635** | **26,152** | **29,238** | **33,084** | **32,939** |
| ALGONQUIN WATER RESOURCES OF TEXAS | 58 | 64 | 71 | 78 | 86 | 94 |
| ARP | 175 | 178 | 182 | 189 | 197 | 206 |
| BEN WHEELER WSC | 1 | 2 | 2 | 2 | 2 | 2 |
| BULLARD | 728 | 920 | 1,115 | 1,329 | 1,547 | 1,773 |
| CARROLL WSC | 99 | 106 | 115 | 125 | 137 | 150 |
| CRYSTAL SYSTEMS TEXAS | 411 | 512 | 616 | 730 | 848 | 973 |
| DEAN WSC | 763 | 772 | 784 | 805 | 833 | 864 |
| EMERALD BAY MUD | 175 | 170 | 167 | 166 | 165 | 165 |
| JACKSON WSC | 212 | 222 | 234 | 252 | 272 | 294 |
| LINDALE | 476 | 604 | 733 | 875 | 1,020 | 1,170 |
| LINDALE RURAL WSC | 298 | 308 | 321 | 341 | 365 | 391 |
| OVERTON | 32 | 39 | 47 | 55 | 64 | 73 |
| R P M WSC | 29 | 31 | 34 | 38 | 41 | 45 |
| SOUTHERN UTILITIES | 6,079 | 6,289 | 6,527 | 6,848 | 7,223 | 7,617 |
| TROUP | 416 | 447 | 481 | 520 | 564 | 610 |
| TYLER | 20,032 | 21,313 | 22,676 | 24,310 | 26,118 | 28,007 |
| WALNUT GROVE WSC | 1,082 | 1,231 | 1,388 | 1,569 | 1,763 | 1,964 |
| WHITEHOUSE | 1,166 | 1,331 | 1,503 | 1,700 | 1,910 | 2,128 |
| WRIGHT CITY WSC | 272 | 295 | 319 | 348 | 380 | 415 |
| COUNTY-OTHER | 475 | 610 | 745 | 894 | 1,049 | 1,209 |
| MANUFACTURING | 2,956 | 3,348 | 3,348 | 3,348 | 3,348 | 3,348 |
| MINING | 134 | 139 | 140 | 109 | 80 | 58 |
| LIVESTOCK | 580 | 580 | 580 | 580 | 580 | 580 |
| IRRIGATION | 448 | 448 | 448 | 448 | 448 | 448 |
| **NECHES BASIN TOTAL** | **37,097** | **39,959** | **42,576** | **45,659** | **49,040** | **52,584** |
| **SMITH COUNTY TOTAL** | **37,097** | **39,959** | **42,576** | **45,659** | **49,040** | **52,584** |
| CENTERVILLE WSC | 106 | 111 | 109 | 105 | 109 | 114 |
| GROVETON | 55 | 57 | 55 | 53 | 55 | 57 |
| PENNINGTON WSC | 52 | 54 | 53 | 50 | 52 | 54 |

# Region I Water User Group (WUG) Demand

| | WUG DEMAND (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| COUNTY-OTHER | 131 | 133 | 134 | 130 | 137 | 144 |
| MINING | 5 | 5 | 5 | 5 | 5 | 5 |
| LIVESTOCK | 202 | 202 | 202 | 202 | 202 | 202 |
| IRRIGATION | 278 | 278 | 278 | 278 | 278 | 278 |
| **NECHES BASIN TOTAL** | **829** | **840** | **836** | **823** | **838** | **854** |
| **TRINITY COUNTY TOTAL** | **829** | **840** | **836** | **823** | **838** | **854** |
| CHESTER WSC | 151 | 151 | 151 | 152 | 154 | 155 |
| COLMESNEIL | 252 | 247 | 243 | 241 | 241 | 241 |
| CYPRESS CREEK WSC | 117 | 115 | 113 | 112 | 112 | 112 |
| LAKE LIVINGSTON WSC | 2 | 2 | 2 | 3 | 3 | 3 |
| MOSCOW WSC | 2 | 2 | 3 | 3 | 3 | 3 |
| TYLER COUNTY WSC | 660 | 638 | 617 | 606 | 604 | 604 |
| WARREN WSC | 185 | 180 | 175 | 173 | 172 | 172 |
| WILDWOOD POA | 116 | 119 | 120 | 122 | 123 | 125 |
| WOODVILLE | 1,241 | 1,218 | 1,196 | 1,184 | 1,182 | 1,182 |
| COUNTY-OTHER | 793 | 764 | 736 | 719 | 714 | 711 |
| MINING | 160 | 198 | 150 | 103 | 55 | 29 |
| STEAM ELECTRIC POWER | 200 | 200 | 200 | 200 | 200 | 200 |
| LIVESTOCK | 249 | 249 | 249 | 249 | 249 | 249 |
| IRRIGATION | 354 | 354 | 354 | 354 | 354 | 354 |
| **NECHES BASIN TOTAL** | **4,482** | **4,437** | **4,309** | **4,221** | **4,166** | **4,140** |
| **TYLER COUNTY TOTAL** | **4,482** | **4,437** | **4,309** | **4,221** | **4,166** | **4,140** |
| **REGION I TOTAL DEMAND** | **738,081** | **793,495** | **798,814** | **811,072** | **826,138** | **839,601** |

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# Attachment 3

## TWDB DB22 Report #3. WUG Category Summary

# Region I Water User Group (WUG) Category Summary*

| MUNICIPAL | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---|---|---|---|---|---|---|
| POPULATION | 999,152 | 1,069,403 | 1,133,698 | 1,201,086 | 1,270,452 | 1,342,338 |
| DEMAND (acre-feet per year) | 174,710 | 181,744 | 188,684 | 197,797 | 208,510 | 220,028 |
| EXISTING SUPPLIES (acre-feet per year) | 208,064 | 213,003 | 216,671 | 220,874 | 226,926 | 233,684 |
| NEEDS (acre-feet per year) | 4,164 | 4,843 | 6,539 | 9,790 | 12,728 | 16,019 |

| COUNTY-OTHER | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---|---|---|---|---|---|---|
| POPULATION | 152,404 | 164,570 | 175,983 | 187,781 | 199,391 | 211,314 |
| DEMAND (acre-feet per year) | 17,339 | 18,126 | 19,138 | 20,469 | 21,958 | 23,583 |
| EXISTING SUPPLIES (acre-feet per year) | 29,845 | 30,848 | 31,911 | 32,670 | 33,038 | 33,442 |
| NEEDS (acre-feet per year) | 160 | 73 | 0 | 253 | 1,434 | 2,739 |

| MANUFACTURING | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---|---|---|---|---|---|---|
| DEMAND (acre-feet per year) | 305,973 | 353,415 | 353,415 | 353,415 | 353,415 | 353,415 |
| EXISTING SUPPLIES (acre-feet per year) | 419,090 | 519,463 | 534,573 | 549,546 | 564,689 | 580,428 |
| NEEDS (acre-feet per year) | 0 | 0 | 0 | 0 | 0 | 0 |

| MINING | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---|---|---|---|---|---|---|
| DEMAND (acre-feet per year) | 27,523 | 24,547 | 18,169 | 15,488 | 12,986 | 12,093 |
| EXISTING SUPPLIES (acre-feet per year) | 22,082 | 21,988 | 21,437 | 20,904 | 20,432 | 20,608 |
| NEEDS (acre-feet per year) | 9,663 | 7,246 | 2,872 | 2,397 | 2,088 | 1,944 |

| STEAM ELECTRIC POWER | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---|---|---|---|---|---|---|
| DEMAND (acre-feet per year) | 67,011 | 67,011 | 67,011 | 67,011 | 67,011 | 67,011 |
| EXISTING SUPPLIES (acre-feet per year) | 88,574 | 88,574 | 88,574 | 88,574 | 88,574 | 88,574 |
| NEEDS (acre-feet per year) | 3,494 | 3,494 | 3,494 | 3,494 | 3,494 | 3,494 |

| LIVESTOCK | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---|---|---|---|---|---|---|
| DEMAND (acre-feet per year) | 47,157 | 50,284 | 54,029 | 58,524 | 63,890 | 65,103 |
| EXISTING SUPPLIES (acre-feet per year) | 26,647 | 26,755 | 26,773 | 26,766 | 26,102 | 25,759 |
| NEEDS (acre-feet per year) | 26,715 | 29,622 | 33,121 | 37,358 | 42,450 | 43,432 |

| IRRIGATION | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
|---|---|---|---|---|---|---|
| DEMAND (acre-feet per year) | 98,368 | 98,368 | 98,368 | 98,368 | 98,368 | 98,368 |
| EXISTING SUPPLIES (acre-feet per year) | 218,387 | 218,404 | 218,417 | 218,430 | 218,410 | 218,421 |
| NEEDS (acre-feet per year) | 577 | 587 | 602 | 618 | 670 | 700 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Category Summary report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Before aggregating the difference between supplies and demands to the WUG category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

# Attachment 4

# TWDB DB22 Report #4. Source Water Availability

# Region I Source Availability

| GROUNDWATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| CARRIZO-WILCOX AQUIFER | ANDERSON | NECHES | FRESH | 23,335 | 23,335 | 23,335 | 23,335 | 23,335 | 23,335 |
| CARRIZO-WILCOX AQUIFER | ANDERSON | TRINITY | FRESH | 5,753 | 5,753 | 5,753 | 5,753 | 5,753 | 5,753 |
| CARRIZO-WILCOX AQUIFER | ANGELINA | NECHES | FRESH | 27,591 | 27,591 | 27,591 | 27,591 | 27,591 | 27,591 |
| CARRIZO-WILCOX AQUIFER | CHEROKEE | NECHES | FRESH | 20,933 | 20,933 | 20,933 | 20,933 | 20,933 | 20,470 |
| CARRIZO-WILCOX AQUIFER | HENDERSON | NECHES | FRESH | 6,036 | 6,036 | 6,036 | 6,036 | 6,036 | 6,036 |
| CARRIZO-WILCOX AQUIFER | HOUSTON | NECHES | FRESH | 22,488 | 22,488 | 22,488 | 22,488 | 22,488 | 22,488 |
| CARRIZO-WILCOX AQUIFER | HOUSTON | TRINITY | FRESH | 3,806 | 3,806 | 3,806 | 3,806 | 3,806 | 3,806 |
| CARRIZO-WILCOX AQUIFER | NACOGDOCHES | NECHES | FRESH | 24,181 | 24,181 | 24,181 | 24,181 | 24,181 | 24,181 |
| CARRIZO-WILCOX AQUIFER | PANOLA | CYPRESS | FRESH | 6 | 6 | 6 | 6 | 6 | 6 |
| CARRIZO-WILCOX AQUIFER | PANOLA | SABINE | FRESH | 8,370 | 8,212 | 8,212 | 8,212 | 8,062 | 8,062 |
| CARRIZO-WILCOX AQUIFER | RUSK | NECHES | FRESH | 11,769 | 11,769 | 11,769 | 11,750 | 11,750 | 11,750 |
| CARRIZO-WILCOX AQUIFER | RUSK | SABINE | FRESH | 9,068 | 9,068 | 9,068 | 9,068 | 9,068 | 9,068 |
| CARRIZO-WILCOX AQUIFER | SABINE | NECHES | FRESH | 356 | 356 | 356 | 356 | 356 | 356 |
| CARRIZO-WILCOX AQUIFER | SABINE | SABINE | FRESH | 3,249 | 3,249 | 3,249 | 3,249 | 3,249 | 3,249 |
| CARRIZO-WILCOX AQUIFER | SAN AUGUSTINE | NECHES | FRESH | 1,149 | 1,149 | 1,149 | 1,149 | 1,149 | 1,149 |
| CARRIZO-WILCOX AQUIFER | SAN AUGUSTINE | SABINE | FRESH | 290 | 290 | 290 | 290 | 290 | 290 |
| CARRIZO-WILCOX AQUIFER | SHELBY | NECHES | FRESH | 2,577 | 2,288 | 2,151 | 2,018 | 2,018 | 2,018 |
| CARRIZO-WILCOX AQUIFER | SHELBY | SABINE | FRESH | 8,317 | 8,154 | 8,154 | 7,705 | 7,269 | 7,081 |
| CARRIZO-WILCOX AQUIFER | SMITH | NECHES | FRESH | 22,705 | 22,705 | 22,705 | 22,705 | 22,705 | 22,693 |
| CARRIZO-WILCOX AQUIFER | TRINITY | NECHES | FRESH | 269 | 269 | 269 | 269 | 269 | 269 |
| GULF COAST AQUIFER SYSTEM | HARDIN | NECHES | FRESH | 34,789 | 34,789 | 34,789 | 34,789 | 34,789 | 34,789 |
| GULF COAST AQUIFER SYSTEM | HARDIN | TRINITY | FRESH | 138 | 138 | 138 | 138 | 138 | 138 |
| GULF COAST AQUIFER SYSTEM | JASPER | NECHES | FRESH | 37,630 | 37,630 | 37,630 | 37,630 | 37,630 | 37,630 |
| GULF COAST AQUIFER SYSTEM | JASPER | SABINE | FRESH | 29,854 | 29,854 | 29,854 | 29,854 | 29,854 | 29,854 |
| GULF COAST AQUIFER SYSTEM | JEFFERSON | NECHES | FRESH | 803 | 803 | 803 | 803 | 803 | 803 |
| GULF COAST AQUIFER SYSTEM | JEFFERSON | NECHES-TRINITY | FRESH | 1,722 | 1,722 | 1,722 | 1,722 | 1,722 | 1,722 |
| GULF COAST AQUIFER SYSTEM | NEWTON | NECHES | FRESH | 176 | 176 | 176 | 176 | 176 | 176 |
| GULF COAST AQUIFER SYSTEM | NEWTON | SABINE | FRESH | 34,043 | 34,043 | 34,043 | 34,043 | 34,043 | 34,043 |
| GULF COAST AQUIFER SYSTEM | ORANGE | NECHES | FRESH | 3,287 | 3,287 | 3,287 | 3,287 | 3,287 | 3,287 |
| GULF COAST AQUIFER SYSTEM | ORANGE | NECHES-TRINITY | FRESH | 256 | 256 | 256 | 256 | 256 | 256 |
| GULF COAST AQUIFER SYSTEM | ORANGE | SABINE | FRESH | 15,821 | 15,821 | 15,821 | 15,821 | 15,821 | 15,821 |
| GULF COAST AQUIFER SYSTEM | POLK | NECHES | FRESH | 14,897 | 14,897 | 14,897 | 14,897 | 14,897 | 14,897 |
| GULF COAST AQUIFER SYSTEM | SABINE | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| GULF COAST AQUIFER SYSTEM | TYLER | NECHES | FRESH | 38,211 | 38,211 | 38,211 | 38,211 | 38,211 | 38,211 |
| OTHER AQUIFER | ANDERSON | TRINITY | FRESH | 298 | 298 | 298 | 298 | 298 | 298 |
| OTHER AQUIFER | ANGELINA | NECHES | FRESH | 812 | 812 | 812 | 812 | 812 | 812 |
| OTHER AQUIFER | CHEROKEE | NECHES | FRESH | 268 | 268 | 268 | 268 | 268 | 268 |
| OTHER AQUIFER | HENDERSON | NECHES | FRESH | 5 | 5 | 5 | 5 | 5 | 5 |
| OTHER AQUIFER | HENDERSON | TRINITY | FRESH | 680 | 680 | 680 | 680 | 680 | 680 |
| OTHER AQUIFER | HOUSTON | NECHES | FRESH | 378 | 378 | 378 | 378 | 378 | 378 |
| OTHER AQUIFER | HOUSTON | TRINITY | FRESH | 888 | 888 | 888 | 888 | 888 | 888 |
| OTHER AQUIFER | NACOGDOCHES | NECHES | FRESH | 1,131 | 1,131 | 1,131 | 1,131 | 1,131 | 1,131 |
| OTHER AQUIFER | POLK | NECHES | FRESH | 1,270 | 1,270 | 1,270 | 1,270 | 1,270 | 1,270 |
| OTHER AQUIFER | RUSK | NECHES | FRESH | 270 | 270 | 270 | 270 | 270 | 270 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

# Region I Source Availability

| GROUNDWATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| OTHER AQUIFER | RUSK | SABINE | FRESH | 469 | 469 | 469 | 469 | 469 | 469 |
| OTHER AQUIFER | SABINE | SABINE | FRESH | 336 | 336 | 336 | 336 | 336 | 336 |
| OTHER AQUIFER | SAN AUGUSTINE | NECHES | FRESH | 1,395 | 1,395 | 1,395 | 1,395 | 1,395 | 1,395 |
| OTHER AQUIFER | SMITH | NECHES | FRESH | 922 | 922 | 922 | 922 | 922 | 922 |
| OTHER AQUIFER | TRINITY | NECHES | FRESH | 700 | 700 | 700 | 700 | 700 | 700 |
| QUEEN CITY AQUIFER | ANDERSON | NECHES | FRESH | 11,828 | 11,828 | 11,828 | 11,828 | 11,828 | 11,828 |
| QUEEN CITY AQUIFER | ANDERSON | TRINITY | FRESH | 7,274 | 7,274 | 7,274 | 7,274 | 7,274 | 7,274 |
| QUEEN CITY AQUIFER | ANGELINA | NECHES | FRESH | 1,093 | 1,093 | 1,093 | 1,093 | 1,093 | 1,093 |
| QUEEN CITY AQUIFER | CHEROKEE | NECHES | FRESH | 23,211 | 23,211 | 23,211 | 23,211 | 23,039 | 22,866 |
| QUEEN CITY AQUIFER | HENDERSON | NECHES | FRESH | 12,067 | 12,067 | 12,067 | 12,067 | 12,067 | 12,067 |
| QUEEN CITY AQUIFER | HOUSTON | NECHES | FRESH | 2,043 | 2,043 | 2,043 | 2,043 | 2,043 | 2,043 |
| QUEEN CITY AQUIFER | HOUSTON | TRINITY | FRESH | 258 | 258 | 258 | 258 | 258 | 258 |
| QUEEN CITY AQUIFER | NACOGDOCHES | NECHES | FRESH | 2,985 | 2,985 | 2,985 | 2,985 | 2,985 | 2,985 |
| QUEEN CITY AQUIFER | RUSK | NECHES | FRESH | 40 | 40 | 40 | 40 | 40 | 40 |
| QUEEN CITY AQUIFER | RUSK | SABINE | FRESH | 18 | 18 | 18 | 18 | 18 | 18 |
| QUEEN CITY AQUIFER | SMITH | NECHES | FRESH | 30,692 | 30,692 | 30,692 | 30,692 | 30,692 | 30,692 |
| QUEEN CITY AQUIFER | TRINITY | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SPARTA AQUIFER | ANDERSON | NECHES | FRESH | 344 | 344 | 344 | 344 | 344 | 344 |
| SPARTA AQUIFER | ANDERSON | TRINITY | FRESH | 272 | 272 | 272 | 272 | 272 | 272 |
| SPARTA AQUIFER | ANGELINA | NECHES | FRESH | 371 | 371 | 371 | 371 | 371 | 371 |
| SPARTA AQUIFER | CHEROKEE | NECHES | FRESH | 359 | 359 | 359 | 359 | 359 | 359 |
| SPARTA AQUIFER | HOUSTON | NECHES | FRESH | 477 | 477 | 477 | 477 | 477 | 477 |
| SPARTA AQUIFER | HOUSTON | TRINITY | FRESH | 977 | 977 | 977 | 977 | 977 | 977 |
| SPARTA AQUIFER | NACOGDOCHES | NECHES | FRESH | 365 | 365 | 365 | 365 | 365 | 365 |
| SPARTA AQUIFER | SABINE | NECHES | FRESH | 37 | 37 | 37 | 37 | 37 | 37 |
| SPARTA AQUIFER | SABINE | SABINE | FRESH | 160 | 160 | 160 | 160 | 160 | 160 |
| SPARTA AQUIFER | SAN AUGUSTINE | NECHES | FRESH | 163 | 163 | 163 | 163 | 163 | 163 |
| SPARTA AQUIFER | SAN AUGUSTINE | SABINE | FRESH | 3 | 3 | 3 | 3 | 3 | 3 |
| SPARTA AQUIFER | TRINITY | NECHES | FRESH | 154 | 154 | 154 | 154 | 154 | 154 |
| YEGUA-JACKSON AQUIFER | ANGELINA | NECHES | FRESH | 16,890 | 16,890 | 16,890 | 16,890 | 16,507 | 16,507 |
| YEGUA-JACKSON AQUIFER | HOUSTON | NECHES | FRESH | 1,324 | 1,324 | 1,324 | 1,324 | 1,324 | 1,324 |
| YEGUA-JACKSON AQUIFER | HOUSTON | TRINITY | FRESH | 4,061 | 4,061 | 4,061 | 4,061 | 4,061 | 4,061 |
| YEGUA-JACKSON AQUIFER | NACOGDOCHES | NECHES | FRESH | 235 | 235 | 235 | 235 | 235 | 235 |
| YEGUA-JACKSON AQUIFER | POLK | NECHES | FRESH | 360 | 360 | 360 | 360 | 360 | 360 |
| YEGUA-JACKSON AQUIFER | SABINE | NECHES | FRESH | 3,724 | 3,724 | 3,724 | 3,724 | 3,724 | 3,724 |
| YEGUA-JACKSON AQUIFER | SABINE | SABINE | FRESH | 575 | 575 | 575 | 575 | 575 | 575 |
| YEGUA-JACKSON AQUIFER | SAN AUGUSTINE | NECHES | FRESH | 2,102 | 2,102 | 2,102 | 2,102 | 2,102 | 2,102 |
| YEGUA-JACKSON AQUIFER | SAN AUGUSTINE | SABINE | FRESH | 9 | 9 | 9 | 9 | 9 | 9 |
| YEGUA-JACKSON AQUIFER | TRINITY | NECHES | FRESH | 700 | 700 | 700 | 700 | 700 | 700 |
| YEGUA-JACKSON AQUIFER | TYLER | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| **GROUNDWATER TOTAL SOURCE AVAILABILITY** | | | | **548,868** | **548,258** | **548,121** | **547,520** | **546,379** | **545,543** |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

# Region I Source Availability

| REUSE SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| DIRECT REUSE | ORANGE | SABINE | FRESH | 15 | 15 | 15 | 15 | 15 | 15 |
| DIRECT REUSE | SABINE | SABINE | FRESH | 20 | 20 | 20 | 20 | 20 | 20 |
| DIRECT REUSE | SHELBY | SABINE | FRESH | 233 | 246 | 259 | 270 | 284 | 299 |
| INDIRECT REUSE | JEFFERSON | NECHES-TRINITY | FRESH | 13,687 | 13,687 | 13,687 | 13,687 | 13,687 | 13,687 |
| | | | REUSE TOTAL SOURCE AVAILABILITY | 13,955 | 13,968 | 13,981 | 13,992 | 14,006 | 14,021 |

| SURFACE WATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| ATHENS LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 5,950 | 5,864 | 5,778 | 5,692 | 5,606 | 5,520 |
| BELLWOOD LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 996 | 996 | 996 | 996 | 996 | 996 |
| CENTER LAKE/RESERVOIR | RESERVOIR | SABINE | FRESH | 1,460 | 1,460 | 1,460 | 1,460 | 1,460 | 1,460 |
| CHEROKEE LAKE/RESERVOIR | RESERVOIR | SABINE | FRESH | 31,456 | 31,309 | 31,162 | 31,015 | 30,867 | 30,720 |
| CYPRESS LIVESTOCK LOCAL SUPPLY | PANOLA | CYPRESS | FRESH | 30 | 30 | 30 | 30 | 30 | 30 |
| HOUSTON COUNTY LAKE/RESERVOIR | RESERVOIR | TRINITY | FRESH | 6,250 | 6,145 | 6,040 | 5,935 | 5,830 | 5,725 |
| JACKSONVILLE LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 6,200 | 6,200 | 6,200 | 6,200 | 6,200 | 6,200 |
| KURTH LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 18,500 | 18,500 | 18,500 | 18,500 | 18,500 | 18,500 |
| LAKE NACONICHE/RESERVOIR | RESERVOIR | NECHES | FRESH | 4,500 | 4,500 | 4,500 | 4,500 | 4,500 | 4,500 |
| MARTIN LAKE/RESERVOIR | RESERVOIR | SABINE | FRESH | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 |
| MURVAUL LAKE/RESERVOIR | RESERVOIR | SABINE | FRESH | 21,367 | 20,686 | 20,006 | 19,325 | 18,644 | 17,963 |
| NACOGDOCHES LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 16,200 | 15,800 | 15,400 | 15,000 | 14,600 | 14,200 |
| NECHES LIVESTOCK LOCAL SUPPLY | ANDERSON | NECHES | FRESH | 333 | 333 | 333 | 333 | 333 | 333 |
| NECHES LIVESTOCK LOCAL SUPPLY | ANGELINA | NECHES | FRESH | 661 | 661 | 661 | 661 | 661 | 661 |
| NECHES LIVESTOCK LOCAL SUPPLY | CHEROKEE | NECHES | FRESH | 1,555 | 1,555 | 1,555 | 1,555 | 1,555 | 1,555 |
| NECHES LIVESTOCK LOCAL SUPPLY | HARDIN | NECHES | FRESH | 155 | 155 | 155 | 155 | 155 | 155 |
| NECHES LIVESTOCK LOCAL SUPPLY | HENDERSON | NECHES | FRESH | 770 | 770 | 770 | 770 | 770 | 770 |
| NECHES LIVESTOCK LOCAL SUPPLY | HOUSTON | NECHES | FRESH | 1,007 | 1,007 | 1,007 | 1,007 | 1,007 | 1,007 |
| NECHES LIVESTOCK LOCAL SUPPLY | JASPER | NECHES | FRESH | 332 | 332 | 332 | 332 | 332 | 332 |
| NECHES LIVESTOCK LOCAL SUPPLY | NACOGDOCHES | NECHES | FRESH | 2,386 | 2,386 | 2,386 | 2,386 | 2,386 | 2,386 |
| NECHES LIVESTOCK LOCAL SUPPLY | ORANGE | NECHES | FRESH | 56 | 56 | 56 | 56 | 56 | 56 |
| NECHES LIVESTOCK LOCAL SUPPLY | POLK | NECHES | FRESH | 396 | 396 | 396 | 396 | 396 | 396 |
| NECHES LIVESTOCK LOCAL SUPPLY | RUSK | NECHES | FRESH | 808 | 808 | 808 | 808 | 808 | 808 |
| NECHES LIVESTOCK LOCAL SUPPLY | SABINE | NECHES | FRESH | 71 | 71 | 71 | 71 | 71 | 71 |
| NECHES LIVESTOCK LOCAL SUPPLY | SAN AUGUSTINE | NECHES | FRESH | 465 | 465 | 465 | 465 | 465 | 465 |
| NECHES LIVESTOCK LOCAL SUPPLY | SHELBY | NECHES | FRESH | 334 | 334 | 334 | 334 | 334 | 334 |
| NECHES LIVESTOCK LOCAL SUPPLY | SMITH | NECHES | FRESH | 605 | 605 | 605 | 605 | 605 | 605 |
| NECHES LIVESTOCK LOCAL SUPPLY | TRINITY | NECHES | FRESH | 449 | 449 | 449 | 449 | 449 | 449 |
| NECHES LIVESTOCK LOCAL SUPPLY | TYLER | NECHES | FRESH | 239 | 239 | 239 | 239 | 239 | 239 |
| NECHES OTHER LOCAL SUPPLY | CHEROKEE | NECHES | FRESH | 19 | 19 | 19 | 19 | 19 | 19 |
| NECHES OTHER LOCAL SUPPLY | JEFFERSON | NECHES | FRESH | 110 | 110 | 110 | 110 | 110 | 110 |
| NECHES OTHER LOCAL SUPPLY | NACOGDOCHES | NECHES | FRESH | 494 | 494 | 494 | 494 | 494 | 494 |
| NECHES OTHER LOCAL SUPPLY | POLK | NECHES | FRESH | 20 | 20 | 20 | 20 | 20 | 20 |
| NECHES OTHER LOCAL SUPPLY | TYLER | NECHES | FRESH | 8 | 8 | 8 | 8 | 8 | 8 |
| NECHES RUN-OF-RIVER | ANDERSON | NECHES | FRESH | 162 | 162 | 162 | 162 | 162 | 162 |
| NECHES RUN-OF-RIVER | ANGELINA | NECHES | FRESH | 14 | 14 | 14 | 14 | 14 | 14 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

# Region I Source Availability

| SURFACE WATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY * | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| NECHES RUN-OF-RIVER | CHEROKEE | NECHES | FRESH | 108 | 108 | 108 | 108 | 108 | 108 |
| NECHES RUN-OF-RIVER | HARDIN | NECHES | FRESH | 57 | 57 | 57 | 57 | 57 | 57 |
| NECHES RUN-OF-RIVER | HOUSTON | NECHES | FRESH | 208 | 208 | 208 | 208 | 208 | 208 |
| NECHES RUN-OF-RIVER | JASPER | NECHES | FRESH | 382,430 | 382,430 | 382,430 | 382,430 | 382,430 | 382,430 |
| NECHES RUN-OF-RIVER | JEFFERSON | NECHES | BRACKISH | 752,152 | 752,152 | 752,152 | 752,152 | 752,152 | 752,152 |
| NECHES RUN-OF-RIVER | JEFFERSON | NECHES | FRESH | 15,933 | 16,732 | 17,670 | 18,877 | 20,307 | 21,588 |
| NECHES RUN-OF-RIVER | NACOGDOCHES | NECHES | FRESH | 69 | 69 | 69 | 69 | 69 | 69 |
| NECHES RUN-OF-RIVER | ORANGE | NECHES | BRACKISH | 17,310 | 17,310 | 17,310 | 17,310 | 17,310 | 17,310 |
| NECHES RUN-OF-RIVER | RUSK | NECHES | FRESH | 82 | 82 | 82 | 82 | 82 | 82 |
| NECHES RUN-OF-RIVER | SABINE | NECHES | FRESH | 178 | 178 | 178 | 178 | 178 | 178 |
| NECHES RUN-OF-RIVER | SHELBY | NECHES | FRESH | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| NECHES RUN-OF-RIVER | SMITH | NECHES | FRESH | 50 | 50 | 50 | 50 | 50 | 50 |
| NECHES RUN-OF-RIVER | TRINITY | NECHES | FRESH | 3 | 3 | 3 | 3 | 3 | 3 |
| NECHES RUN-OF-RIVER | TYLER | NECHES | FRESH | 88 | 88 | 88 | 88 | 88 | 88 |
| NECHES-TRINITY LIVESTOCK LOCAL SUPPLY | JEFFERSON | NECHES-TRINITY | FRESH | 800 | 800 | 800 | 800 | 800 | 800 |
| NECHES-TRINITY OTHER LOCAL SUPPLY | JEFFERSON | NECHES-TRINITY | FRESH | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| NECHES-TRINITY RUN-OF-RIVER | JEFFERSON | NECHES-TRINITY | FRESH | 51,274 | 51,274 | 51,274 | 51,274 | 51,274 | 51,274 |
| PALESTINE LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 197,710 | 196,110 | 194,610 | 193,010 | 191,310 | 189,010 |
| PINKSTON LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 3,800 | 3,800 | 3,800 | 3,800 | 3,800 | 3,800 |
| RUSK CITY LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 40 | 40 | 40 | 40 | 40 | 40 |
| SABINE LIVESTOCK LOCAL SUPPLY | JASPER | SABINE | FRESH | 215 | 215 | 215 | 215 | 215 | 215 |
| SABINE LIVESTOCK LOCAL SUPPLY | NEWTON | SABINE | FRESH | 155 | 155 | 155 | 155 | 155 | 155 |
| SABINE LIVESTOCK LOCAL SUPPLY | ORANGE | SABINE | FRESH | 42 | 42 | 42 | 42 | 42 | 42 |
| SABINE LIVESTOCK LOCAL SUPPLY | PANOLA | SABINE | FRESH | 1,224 | 1,224 | 1,224 | 1,224 | 1,224 | 1,224 |
| SABINE LIVESTOCK LOCAL SUPPLY | RUSK | SABINE | FRESH | 308 | 308 | 308 | 308 | 308 | 308 |
| SABINE LIVESTOCK LOCAL SUPPLY | SABINE | SABINE | FRESH | 634 | 634 | 634 | 634 | 634 | 634 |
| SABINE LIVESTOCK LOCAL SUPPLY | SAN AUGUSTINE | SABINE | FRESH | 71 | 71 | 71 | 71 | 71 | 71 |
| SABINE LIVESTOCK LOCAL SUPPLY | SHELBY | SABINE | FRESH | 2,998 | 2,998 | 2,998 | 2,998 | 2,998 | 2,998 |
| SABINE OTHER LOCAL SUPPLY | NEWTON | SABINE | FRESH | 158 | 158 | 158 | 158 | 158 | 158 |
| SABINE OTHER LOCAL SUPPLY | ORANGE | SABINE | FRESH | 178 | 178 | 178 | 178 | 178 | 178 |
| SABINE OTHER LOCAL SUPPLY | RUSK | SABINE | FRESH | 1,230 | 1,230 | 1,230 | 1,230 | 1,230 | 1,230 |
| SABINE RUN-OF-RIVER | NEWTON | SABINE | FRESH | 133,128 | 133,128 | 133,128 | 133,128 | 133,128 | 133,128 |
| SABINE RUN-OF-RIVER | ORANGE | SABINE | BRACKISH | 267,000 | 267,000 | 267,000 | 267,000 | 267,000 | 267,000 |
| SABINE RUN-OF-RIVER | ORANGE | SABINE | FRESH | 28 | 28 | 28 | 28 | 28 | 28 |
| SABINE RUN-OF-RIVER | PANOLA | SABINE | FRESH | 574 | 574 | 574 | 574 | 574 | 574 |
| SABINE RUN-OF-RIVER | RUSK | SABINE | FRESH | 137 | 137 | 137 | 137 | 137 | 137 |
| SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | RESERVOIR | NECHES | FRESH | 848,000 | 848,000 | 848,000 | 848,000 | 848,000 | 848,000 |
| SAN AUGUSTINE LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 1,285 | 1,285 | 1,285 | 1,285 | 1,285 | 1,285 |
| STRIKER LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 20,340 | 19,635 | 18,890 | 18,150 | 16,715 | 14,690 |
| TIMPSON LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 350 | 350 | 350 | 350 | 350 | 350 |
| TOLEDO BEND LAKE/RESERVOIR | RESERVOIR | SABINE | FRESH | 750,000 | 750,000 | 750,000 | 750,000 | 750,000 | 750,000 |
| TOLEDO BEND LAKE/RESERVOIR | RESERVOIR | SABINE-LOUISIANA | FRESH | 336 | 336 | 336 | 336 | 336 | 336 |
| TRINITY LIVESTOCK LOCAL SUPPLY | ANDERSON | TRINITY | FRESH | 684 | 684 | 684 | 684 | 684 | 684 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

# Region I Source Availability

| SURFACE WATER SOURCE TYPE | | | | SOURCE AVAILABILITY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **SOURCE NAME** | **COUNTY** | **BASIN** | **SALINITY *** | **2020** | **2030** | **2040** | **2050** | **2060** | **2070** |
| TRINITY LIVESTOCK LOCAL SUPPLY | HOUSTON | TRINITY | FRESH | 783 | 783 | 783 | 783 | 783 | 783 |
| TRINITY RUN-OF-RIVER | ANDERSON | TRINITY | FRESH | 1,290 | 1,290 | 1,290 | 1,290 | 1,290 | 1,290 |
| TRINITY RUN-OF-RIVER | HOUSTON | TRINITY | FRESH | 2,522 | 2,522 | 2,522 | 2,522 | 2,522 | 2,522 |
| TYLER LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 34,830 | 34,666 | 34,502 | 34,338 | 34,174 | 34,010 |
| **SURFACE WATER TOTAL SOURCE AVAILABILITY** | | | | **3,642,150** | **3,639,061** | **3,636,172** | **3,633,456** | **3,630,167** | **3,625,540** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **REGION I TOTAL SOURCE AVAILABILITY** | | | | **4,204,973** | **4,201,287** | **4,198,274** | **4,194,968** | **4,190,552** | **4,185,104** |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

# Attachment 5

# TWDB DB22 Report #5. WUG Existing Water Supplies

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| BRUSHY CREEK WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 181 | 177 | 171 | 167 | 166 | 166 |
| FRANKSTON | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 388 | 382 | 378 | 372 | 366 | 360 |
| FRANKSTON RURAL WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 172 | 172 | 168 | 166 | 166 | 166 |
| NECHES WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 200 | 200 | 196 | 194 | 192 | 192 |
| NORWOOD WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 602 | 601 | 600 | 600 | 600 | 600 |
| PALESTINE | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 366 | 404 | 397 | 377 | 373 | 373 |
| PALESTINE | I | PALESTINE LAKE/RESERVOIR | 2,222 | 2,222 | 2,223 | 2,223 | 2,223 | 2,223 |
| SLOCUM WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 258 | 258 | 252 | 250 | 248 | 248 |
| WALSTON SPRINGS WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 299 | 299 | 299 | 299 | 299 | 299 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 1 | 1 | 1 | 1 | 1 | 1 |
| COUNTY-OTHER | I | OTHER AQUIFER \| ANDERSON COUNTY | 25 | 25 | 25 | 25 | 25 | 25 |
| COUNTY-OTHER | I | PALESTINE LAKE/RESERVOIR | 5 | 4 | 4 | 4 | 5 | 5 |
| COUNTY-OTHER | I | QUEEN CITY AQUIFER \| ANDERSON COUNTY | 38 | 38 | 38 | 38 | 38 | 38 |
| COUNTY-OTHER | I | SPARTA AQUIFER \| ANDERSON COUNTY | 28 | 28 | 28 | 28 | 28 | 28 |
| MINING | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 64 | 81 | 85 | 68 | 48 | 35 |
| STEAM ELECTRIC POWER | I | QUEEN CITY AQUIFER \| ANDERSON COUNTY | 1,408 | 1,408 | 1,408 | 1,408 | 1,408 | 1,408 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 14 | 14 | 14 | 14 | 14 | 14 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 333 | 333 | 333 | 333 | 333 | 333 |
| LIVESTOCK | I | QUEEN CITY AQUIFER \| ANDERSON COUNTY | 301 | 301 | 301 | 301 | 301 | 301 |
| IRRIGATION | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 124 | 124 | 124 | 124 | 124 | 124 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 162 | 162 | 162 | 162 | 162 | 162 |
| IRRIGATION | I | QUEEN CITY AQUIFER \| ANDERSON COUNTY | 149 | 149 | 149 | 149 | 149 | 149 |
| | | **NECHES BASIN TOTAL** | **7,340** | **7,383** | **7,356** | **7,303** | **7,269** | **7,250** |
| ANDERSON COUNTY CEDAR CREEK WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 101 | 100 | 98 | 96 | 96 | 96 |
| B B S WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 131 | 130 | 127 | 124 | 124 | 124 |
| B C Y WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 220 | 212 | 206 | 202 | 202 | 202 |
| BRUSHY CREEK WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 107 | 104 | 101 | 98 | 98 | 98 |
| ELKHART | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 428 | 428 | 428 | 428 | 428 | 428 |
| FOUR PINES WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 549 | 549 | 549 | 549 | 549 | 549 |
| NORWOOD WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 42 | 43 | 44 | 44 | 44 | 44 |
| PALESTINE | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 348 | 383 | 376 | 357 | 354 | 354 |
| PALESTINE | I | PALESTINE LAKE/RESERVOIR | 2,109 | 2,109 | 2,108 | 2,108 | 2,108 | 2,108 |
| PLEASANT SPRINGS WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 417 | 416 | 413 | 411 | 411 | 411 |
| SLOCUM WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 28 | 28 | 28 | 26 | 26 | 26 |
| TDCJ BETO GURNEY & POWLEDGE UNITS | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 1,130 | 1,150 | 1,152 | 1,146 | 1,144 | 1,144 |
| TDCJ COFFIELD MICHAEL | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 3,116 | 3,196 | 3,214 | 3,206 | 3,204 | 3,204 |
| THE CONSOLIDATED WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 254 | 254 | 254 | 254 | 254 | 254 |
| THE CONSOLIDATED WSC | I | HOUSTON COUNTY LAKE/RESERVOIR | 5 | 4 | 3 | 3 | 2 | 2 |
| TUCKER WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 128 | 126 | 124 | 122 | 122 | 122 |
| WALSTON SPRINGS WSC | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 117 | 116 | 113 | 111 | 111 | 111 |
| COUNTY-OTHER | I | OTHER AQUIFER \| ANDERSON COUNTY | 235 | 235 | 235 | 235 | 235 | 235 |
| COUNTY-OTHER | I | PALESTINE LAKE/RESERVOIR | 42 | 43 | 43 | 43 | 42 | 42 |
| COUNTY-OTHER | I | QUEEN CITY AQUIFER \| ANDERSON COUNTY | 362 | 362 | 362 | 362 | 362 | 362 |
| COUNTY-OTHER | I | SPARTA AQUIFER \| ANDERSON COUNTY | 263 | 263 | 263 | 263 | 263 | 263 |
| MINING | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 100 | 100 | 100 | 100 | 100 | 100 |
| MINING | I | OTHER AQUIFER \| ANDERSON COUNTY | 29 | 29 | 29 | 29 | 29 | 29 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 18 | 18 | 18 | 18 | 18 | 18 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 684 | 684 | 684 | 684 | 684 | 684 |
| LIVESTOCK | I | OTHER AQUIFER \| ANDERSON COUNTY | 9 | 9 | 9 | 9 | 9 | 9 |
| LIVESTOCK | I | QUEEN CITY AQUIFER \| ANDERSON COUNTY | 64 | 64 | 64 | 64 | 64 | 64 |
| IRRIGATION | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 161 | 161 | 161 | 161 | 161 | 161 |
| IRRIGATION | I | QUEEN CITY AQUIFER \| ANDERSON COUNTY | 138 | 138 | 138 | 138 | 138 | 138 |
| IRRIGATION | I | TRINITY RUN-OF-RIVER | 1,060 | 1,060 | 1,060 | 1,060 | 1,060 | 1,060 |
| | | **TRINITY BASIN TOTAL** | **12,395** | **12,514** | **12,504** | **12,451** | **12,442** | **12,442** |
| | | **ANDERSON COUNTY TOTAL** | **19,735** | **19,897** | **19,860** | **19,754** | **19,711** | **19,692** |
| ANGELINA WSC | I | OTHER AQUIFER \| ANGELINA COUNTY | 523 | 523 | 523 | 523 | 523 | 523 |
| CENTRAL WCID OF ANGELINA COUNTY | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 877 | 877 | 877 | 877 | 877 | 877 |
| DIBOLL | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 1,806 | 1,806 | 1,806 | 1,806 | 1,806 | 1,806 |
| DIBOLL | I | YEGUA-JACKSON AQUIFER \| ANGELINA COUNTY | 908 | 908 | 908 | 908 | 908 | 908 |
| FOUR WAY SUD | I | YEGUA-JACKSON AQUIFER \| ANGELINA COUNTY | 1,216 | 1,216 | 1,216 | 1,216 | 1,216 | 1,216 |
| HUDSON WSC | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 1,157 | 1,157 | 1,157 | 1,157 | 1,157 | 1,157 |
| HUNTINGTON | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 448 | 448 | 448 | 448 | 448 | 448 |
| HUNTINGTON | I | YEGUA-JACKSON AQUIFER \| ANGELINA COUNTY | 609 | 609 | 609 | 609 | 609 | 609 |
| LUFKIN | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 4,352 | 4,527 | 4,675 | 4,844 | 5,029 | 4,186 |
| LUFKIN | I | KURTH LAKE/RESERVOIR | 2,901 | 3,018 | 3,117 | 3,229 | 3,353 | 4,482 |
| M & M WSC | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 283 | 286 | 290 | 300 | 310 | 321 |
| POLLOK-REDTOWN WSC | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 162 | 166 | 170 | 176 | 184 | 191 |
| REDLAND WSC | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 778 | 778 | 778 | 778 | 778 | 778 |
| UPPER JASPER COUNTY WATER AUTHORITY | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 11 | 11 | 10 | 10 | 10 | 10 |
| WOODLAWN WSC | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 163 | 165 | 168 | 173 | 180 | 186 |
| ZAVALLA | I | YEGUA-JACKSON AQUIFER \| ANGELINA COUNTY | 85 | 87 | 89 | 91 | 95 | 98 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 1,733 | 1,733 | 1,733 | 1,733 | 1,733 | 1,733 |
| COUNTY-OTHER | I | OTHER AQUIFER \| ANGELINA COUNTY | 175 | 175 | 175 | 175 | 175 | 175 |
| COUNTY-OTHER | I | SPARTA AQUIFER \| ANGELINA COUNTY | 175 | 175 | 175 | 175 | 175 | 175 |
| COUNTY-OTHER | I | YEGUA-JACKSON AQUIFER \| ANGELINA COUNTY | 275 | 275 | 275 | 275 | 275 | 275 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 1,964 | 2,157 | 2,352 | 2,526 | 2,711 | 2,911 |
| MANUFACTURING | I | KURTH LAKE/RESERVOIR | 1,220 | 1,349 | 1,479 | 1,595 | 1,719 | 1,851 |
| MANUFACTURING | I | OTHER AQUIFER \| ANGELINA COUNTY | 101 | 101 | 101 | 101 | 101 | 101 |
| MANUFACTURING | I | YEGUA-JACKSON AQUIFER \| ANGELINA COUNTY | 1,242 | 1,242 | 1,242 | 1,242 | 1,242 | 1,242 |
| MINING | I | OTHER AQUIFER \| ANGELINA COUNTY | 13 | 13 | 13 | 13 | 13 | 13 |
| STEAM ELECTRIC POWER | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 10,081 | 10,081 | 10,081 | 10,081 | 10,081 | 10,081 |
| STEAM ELECTRIC POWER | I | KURTH LAKE/RESERVOIR | 6,721 | 6,721 | 6,721 | 6,721 | 6,721 | 6,721 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| ANGELINA COUNTY | 308 | 308 | 308 | 308 | 308 | 308 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 661 | 661 | 661 | 661 | 661 | 661 |
| LIVESTOCK | I | SPARTA AQUIFER \| ANGELINA COUNTY | 13 | 13 | 13 | 13 | 13 | 13 |
| LIVESTOCK | I | YEGUA-JACKSON AQUIFER \| ANGELINA COUNTY | 50 | 50 | 50 | 50 | 50 | 50 |
| IRRIGATION | I | KURTH LAKE/RESERVOIR | 481 | 481 | 481 | 481 | 481 | 481 |
| IRRIGATION | I | YEGUA-JACKSON AQUIFER \| ANGELINA COUNTY | 331 | 331 | 331 | 331 | 331 | 331 |
| | | **NECHES BASIN TOTAL** | **41,823** | **42,448** | **43,032** | **43,626** | **44,273** | **44,918** |
| | | **ANGELINA COUNTY TOTAL** | **41,823** | **42,448** | **43,032** | **43,626** | **44,273** | **44,918** |
| AFTON GROVE WSC | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 189 | 202 | 215 | 234 | 254 | 277 |
| ALTO | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 508 | 508 | 508 | 508 | 508 | 508 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| ALTO RURAL WSC | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 736 | 736 | 736 | 736 | 736 | 736 |
| BLACKJACK WSC | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 138 | 147 | 158 | 171 | 186 | 203 |
| BULLARD | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 16 | 16 | 16 | 16 | 16 | 16 |
| BULLARD | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 10 | 9 | 8 | 7 | 6 | 6 |
| CRAFT TURNEY WSC | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 146 | 151 | 157 | 169 | 183 | 200 |
| CRAFT TURNEY WSC | I | JACKSONVILLE LAKE/RESERVOIR | 339 | 352 | 367 | 393 | 427 | 465 |
| GUM CREEK WSC | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 129 | 134 | 142 | 153 | 167 | 181 |
| JACKSONVILLE | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 914 | 974 | 1,037 | 1,124 | 1,223 | 1,332 |
| JACKSONVILLE | I | JACKSONVILLE LAKE/RESERVOIR | 2,131 | 2,273 | 2,420 | 2,621 | 2,853 | 3,108 |
| NEW SUMMERFIELD | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 253 | 253 | 253 | 253 | 253 | 253 |
| NORTH CHEROKEE WSC | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 185 | 196 | 208 | 225 | 244 | 266 |
| NORTH CHEROKEE WSC | I | JACKSONVILLE LAKE/RESERVOIR | 417 | 444 | 473 | 512 | 557 | 607 |
| POLLOK-REDTOWN WSC | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 14 | 14 | 15 | 15 | 16 | 17 |
| RUSK | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 1,362 | 1,362 | 1,362 | 1,362 | 1,362 | 1,485 |
| RUSK | I | RUSK CITY LAKE/RESERVOIR | 40 | 40 | 40 | 40 | 40 | 40 |
| RUSK RURAL WSC | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 557 | 557 | 557 | 557 | 557 | 557 |
| SOUTH RUSK COUNTY WSC | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 6 | 7 | 7 | 8 | 8 | 9 |
| SOUTHERN UTILITIES | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 436 | 466 | 496 | 538 | 585 | 637 |
| TROUP | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 15 | 16 | 17 | 19 | 20 | 22 |
| WELLS | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 382 | 382 | 382 | 382 | 382 | 382 |
| WEST JACKSONVILLE WSC | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 165 | 175 | 187 | 203 | 221 | 241 |
| WRIGHT CITY WSC | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 102 | 102 | 102 | 102 | 102 | 99 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 587 | 591 | 597 | 605 | 614 | 623 |
| COUNTY-OTHER | I | JACKSONVILLE LAKE/RESERVOIR | 199 | 211 | 223 | 241 | 262 | 286 |
| COUNTY-OTHER | I | OTHER AQUIFER \| CHEROKEE COUNTY | 196 | 196 | 196 | 196 | 196 | 196 |
| COUNTY-OTHER | I | QUEEN CITY AQUIFER \| CHEROKEE COUNTY | 676 | 676 | 676 | 676 | 676 | 676 |
| COUNTY-OTHER | I | SPARTA AQUIFER \| CHEROKEE COUNTY | 156 | 156 | 156 | 156 | 156 | 156 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 134 | 143 | 151 | 158 | 169 | 181 |
| MANUFACTURING | I | JACKSONVILLE LAKE/RESERVOIR | 289 | 309 | 328 | 344 | 371 | 400 |
| MANUFACTURING | I | QUEEN CITY AQUIFER \| CHEROKEE COUNTY | 1 | 1 | 1 | 1 | 1 | 1 |
| MINING | I | LOCAL SURFACE WATER SUPPLY | 19 | 19 | 19 | 19 | 19 | 19 |
| MINING | I | OTHER AQUIFER \| CHEROKEE COUNTY | 38 | 38 | 38 | 38 | 38 | 38 |
| STEAM ELECTRIC POWER | I | STRIKER LAKE/RESERVOIR | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 119 | 119 | 119 | 119 | 119 | 119 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 1,555 | 1,555 | 1,555 | 1,555 | 1,555 | 1,555 |
| LIVESTOCK | I | OTHER AQUIFER \| CHEROKEE COUNTY | 33 | 33 | 33 | 33 | 33 | 33 |
| LIVESTOCK | I | QUEEN CITY AQUIFER \| CHEROKEE COUNTY | 176 | 176 | 176 | 176 | 176 | 176 |
| IRRIGATION | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 115 | 115 | 115 | 115 | 115 | 115 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 108 | 108 | 108 | 108 | 108 | 108 |
| IRRIGATION | I | OTHER AQUIFER \| CHEROKEE COUNTY | 1 | 1 | 1 | 1 | 1 | 1 |
| IRRIGATION | I | PALESTINE LAKE/RESERVOIR | 41 | 36 | 32 | 28 | 25 | 25 |
| IRRIGATION | I | QUEEN CITY AQUIFER \| CHEROKEE COUNTY | 206 | 206 | 206 | 206 | 206 | 206 |
| IRRIGATION | I | SPARTA AQUIFER \| CHEROKEE COUNTY | 1 | 1 | 1 | 1 | 1 | 1 |
| | | **NECHES BASIN TOTAL** | **18,840** | **19,206** | **19,594** | **20,124** | **20,747** | **21,562** |
| | | **CHEROKEE COUNTY TOTAL** | **18,840** | **19,206** | **19,594** | **20,124** | **20,747** | **21,562** |
| HARDIN COUNTY WCID 1 | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 1,041 | 1,041 | 1,041 | 1,041 | 1,041 | 1,041 |
| KOUNTZE | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 1,041 | 1,041 | 1,041 | 1,041 | 1,041 | 1,041 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| LUMBERTON MUD | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 2,610 | 2,805 | 2,929 | 3,032 | 3,137 | 3,222 |
| NORTH HARDIN WSC | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 1,906 | 1,906 | 1,906 | 1,906 | 1,906 | 1,906 |
| SILSBEE | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 1,617 | 1,617 | 1,617 | 1,617 | 1,617 | 1,617 |
| SOUR LAKE | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 934 | 934 | 934 | 934 | 934 | 934 |
| WEST HARDIN WSC | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 771 | 768 | 766 | 763 | 761 | 758 |
| WILDWOOD POA | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 156 | 160 | 162 | 164 | 166 | 168 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 703 | 689 | 677 | 681 | 684 | 690 |
| MANUFACTURING | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 46 | 51 | 51 | 51 | 51 | 51 |
| MINING | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 12 | 12 | 12 | 12 | 12 | 12 |
| STEAM ELECTRIC POWER | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 1 | 1 | 1 | 1 | 1 | 1 |
| LIVESTOCK | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 69 | 69 | 69 | 69 | 69 | 69 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 155 | 155 | 155 | 155 | 155 | 155 |
| IRRIGATION | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 932 | 932 | 932 | 932 | 932 | 932 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 57 | 57 | 57 | 57 | 57 | 57 |
| | | **NECHES BASIN TOTAL** | **12,051** | **12,238** | **12,350** | **12,456** | **12,564** | **12,654** |
| LAKE LIVINGSTON WSC | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 10 | 11 | 12 | 12 | 13 | 13 |
| WEST HARDIN WSC | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 4 | 4 | 4 | 4 | 4 | 4 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 18 | 18 | 18 | 18 | 18 | 18 |
| LIVESTOCK | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 2 | 2 | 2 | 2 | 2 | 2 |
| | | **TRINITY BASIN TOTAL** | **34** | **35** | **36** | **36** | **37** | **37** |
| | | **HARDIN COUNTY TOTAL** | **12,085** | **12,273** | **12,386** | **12,492** | **12,601** | **12,691** |
| ATHENS | I | ATHENS LAKE/RESERVOIR | 33 | 37 | 38 | 40 | 34 | 29 |
| ATHENS | C | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 23 | 23 | 21 | 21 | 13 | 10 |
| BERRYVILLE | I | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 118 | 124 | 128 | 137 | 147 | 156 |
| BETHEL ASH WSC | I | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 659 | 637 | 625 | 620 | 616 | 616 |
| BROWNSBORO | I | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 218 | 260 | 295 | 343 | 386 | 428 |
| BRUSHY CREEK WSC | I | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 79 | 80 | 81 | 84 | 89 | 93 |
| CHANDLER | I | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 877 | 877 | 877 | 877 | 877 | 877 |
| EDOM WSC | D | CARRIZO-WILCOX AQUIFER \| VAN ZANDT COUNTY | 20 | 20 | 20 | 21 | 20 | 21 |
| FRANKSTON | I | CARRIZO-WILCOX AQUIFER \| ANDERSON COUNTY | 15 | 21 | 25 | 31 | 37 | 43 |
| LEAGUEVILLE WSC | I | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 215 | 221 | 233 | 250 | 313 | 397 |
| MOORE STATION WSC | I | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 183 | 189 | 200 | 215 | 269 | 342 |
| MURCHISON | I | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 94 | 91 | 89 | 88 | 88 | 89 |
| R P M WSC | D | CARRIZO-WILCOX AQUIFER \| VAN ZANDT COUNTY | 38 | 37 | 37 | 38 | 38 | 39 |
| R P M WSC | D | QUEEN CITY AQUIFER \| VAN ZANDT COUNTY | 36 | 35 | 35 | 36 | 36 | 36 |
| VIRGINIA HILL WSC | C | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 156 | 156 | 156 | 156 | 155 | 152 |
| VIRGINIA HILL WSC | I | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 108 | 108 | 108 | 108 | 107 | 105 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| HENDERSON COUNTY | 1 | 1 | 1 | 1 | 1 | 1 |
| COUNTY-OTHER | I | OTHER AQUIFER \| HENDERSON COUNTY | 539 | 539 | 539 | 539 | 539 | 539 |
| MINING | | NO WATER SUPPLY ASSOCIATED WITH WUG | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | I | ATHENS LAKE/RESERVOIR | 3,023 | 3,007 | 2,890 | 2,735 | 1,912 | 1,396 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 770 | 770 | 770 | 770 | 770 | 770 |
| IRRIGATION | I | ATHENS LAKE/RESERVOIR | 170 | 169 | 163 | 154 | 108 | 78 |
| IRRIGATION | I | PALESTINE LAKE/RESERVOIR | 82 | 73 | 64 | 57 | 51 | 51 |
| | | **NECHES BASIN TOTAL** | **7,457** | **7,475** | **7,395** | **7,321** | **6,606** | **6,268** |
| | | **HENDERSON COUNTY TOTAL** | **7,457** | **7,475** | **7,395** | **7,321** | **6,606** | **6,268** |
| GRAPELAND | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 240 | 239 | 241 | 241 | 242 | 242 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| GRAPELAND | I | HOUSTON COUNTY LAKE/RESERVOIR | 5 | 4 | 4 | 4 | 4 | 4 |
| PENNINGTON WSC | I | HOUSTON COUNTY LAKE/RESERVOIR | 13 | 13 | 13 | 13 | 13 | 13 |
| PENNINGTON WSC | I | YEGUA-JACKSON AQUIFER \| HOUSTON COUNTY | 71 | 71 | 73 | 71 | 72 | 72 |
| THE CONSOLIDATED WSC | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 755 | 755 | 755 | 755 | 755 | 755 |
| THE CONSOLIDATED WSC | I | HOUSTON COUNTY LAKE/RESERVOIR | 14 | 9 | 8 | 7 | 5 | 4 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 86 | 86 | 87 | 87 | 87 | 87 |
| COUNTY-OTHER | I | HOUSTON COUNTY LAKE/RESERVOIR | 4 | 3 | 3 | 3 | 3 | 3 |
| COUNTY-OTHER | I | OTHER AQUIFER \| HOUSTON COUNTY | 87 | 87 | 88 | 88 | 88 | 88 |
| COUNTY-OTHER | I | SPARTA AQUIFER \| HOUSTON COUNTY | 25 | 25 | 25 | 25 | 25 | 25 |
| COUNTY-OTHER | I | YEGUA-JACKSON AQUIFER \| HOUSTON COUNTY | 42 | 42 | 42 | 42 | 42 | 42 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 24 | 24 | 24 | 24 | 24 | 24 |
| MINING | I | OTHER AQUIFER \| HOUSTON COUNTY | 113 | 89 | 65 | 42 | 18 | 8 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 4 | 4 | 4 | 4 | 4 | 4 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 1,007 | 1,007 | 1,007 | 1,007 | 1,007 | 1,007 |
| LIVESTOCK | I | OTHER AQUIFER \| HOUSTON COUNTY | 14 | 14 | 14 | 14 | 14 | 14 |
| LIVESTOCK | I | QUEEN CITY AQUIFER \| HOUSTON COUNTY | 14 | 14 | 14 | 14 | 14 | 14 |
| LIVESTOCK | I | SPARTA AQUIFER \| HOUSTON COUNTY | 29 | 29 | 29 | 29 | 29 | 29 |
| IRRIGATION | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 7 | 7 | 7 | 7 | 7 | 7 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 38 | 38 | 38 | 38 | 38 | 38 |
| IRRIGATION | I | OTHER AQUIFER \| HOUSTON COUNTY | 10 | 10 | 10 | 10 | 10 | 10 |
| IRRIGATION | I | QUEEN CITY AQUIFER \| HOUSTON COUNTY | 9 | 9 | 9 | 9 | 9 | 9 |
| IRRIGATION | I | SPARTA AQUIFER \| HOUSTON COUNTY | 5 | 5 | 5 | 5 | 5 | 5 |
| IRRIGATION | I | TRINITY RUN-OF-RIVER | 457 | 457 | 457 | 457 | 457 | 457 |
| | | **NECHES BASIN TOTAL** | **3,073** | **3,041** | **3,022** | **2,996** | **2,972** | **2,961** |
| CROCKETT | I | HOUSTON COUNTY LAKE/RESERVOIR | 155 | 126 | 126 | 126 | 126 | 126 |
| CROCKETT | I | YEGUA-JACKSON AQUIFER \| HOUSTON COUNTY | 209 | 209 | 209 | 209 | 209 | 209 |
| GRAPELAND | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 369 | 370 | 368 | 368 | 367 | 367 |
| GRAPELAND | I | HOUSTON COUNTY LAKE/RESERVOIR | 7 | 6 | 6 | 6 | 6 | 6 |
| LOVELADY | I | HOUSTON COUNTY LAKE/RESERVOIR | 3 | 2 | 2 | 2 | 2 | 2 |
| LOVELADY | I | YEGUA-JACKSON AQUIFER \| HOUSTON COUNTY | 201 | 201 | 201 | 201 | 201 | 201 |
| PENNINGTON WSC | I | HOUSTON COUNTY LAKE/RESERVOIR | 24 | 24 | 24 | 24 | 24 | 24 |
| PENNINGTON WSC | I | YEGUA-JACKSON AQUIFER \| HOUSTON COUNTY | 130 | 130 | 128 | 130 | 129 | 129 |
| TDCJ EASTHAM UNIT | I | HOUSTON COUNTY LAKE/RESERVOIR | 37 | 37 | 37 | 37 | 37 | 37 |
| TDCJ EASTHAM UNIT | I | YEGUA-JACKSON AQUIFER \| HOUSTON COUNTY | 201 | 201 | 201 | 201 | 201 | 201 |
| THE CONSOLIDATED WSC | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 1,329 | 1,329 | 1,329 | 1,329 | 1,329 | 1,329 |
| THE CONSOLIDATED WSC | I | HOUSTON COUNTY LAKE/RESERVOIR | 36 | 25 | 22 | 19 | 14 | 11 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 18 | 18 | 17 | 17 | 17 | 17 |
| COUNTY-OTHER | I | HOUSTON COUNTY LAKE/RESERVOIR | 1 | 1 | 1 | 1 | 1 | 1 |
| COUNTY-OTHER | I | OTHER AQUIFER \| HOUSTON COUNTY | 18 | 18 | 17 | 17 | 17 | 17 |
| COUNTY-OTHER | I | SPARTA AQUIFER \| HOUSTON COUNTY | 5 | 5 | 5 | 5 | 5 | 5 |
| COUNTY-OTHER | I | YEGUA-JACKSON AQUIFER \| HOUSTON COUNTY | 8 | 8 | 8 | 8 | 8 | 8 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 18 | 18 | 18 | 18 | 18 | 18 |
| MANUFACTURING | I | HOUSTON COUNTY LAKE/RESERVOIR | 301 | 331 | 360 | 385 | 417 | 451 |
| MINING | I | OTHER AQUIFER \| HOUSTON COUNTY | 209 | 165 | 122 | 77 | 33 | 14 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 244 | 351 | 466 | 591 | 726 | 899 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 783 | 783 | 783 | 783 | 783 | 783 |
| LIVESTOCK | I | OTHER AQUIFER \| HOUSTON COUNTY | 55 | 55 | 55 | 55 | 55 | 55 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| LIVESTOCK | I | QUEEN CITY AQUIFER \| HOUSTON COUNTY | 13 | 13 | 13 | 13 | 13 | 13 |
| LIVESTOCK | I | SPARTA AQUIFER \| HOUSTON COUNTY | 75 | 75 | 75 | 75 | 75 | 75 |
| IRRIGATION | I | CARRIZO-WILCOX AQUIFER \| HOUSTON COUNTY | 31 | 31 | 31 | 31 | 31 | 31 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 170 | 170 | 170 | 170 | 170 | 170 |
| IRRIGATION | I | OTHER AQUIFER \| HOUSTON COUNTY | 46 | 46 | 46 | 46 | 46 | 46 |
| IRRIGATION | I | QUEEN CITY AQUIFER \| HOUSTON COUNTY | 41 | 41 | 41 | 41 | 41 | 41 |
| IRRIGATION | I | SPARTA AQUIFER \| HOUSTON COUNTY | 20 | 20 | 20 | 20 | 20 | 20 |
| IRRIGATION | I | TRINITY RUN-OF-RIVER | 2,065 | 2,065 | 2,065 | 2,065 | 2,065 | 2,065 |
| | | **TRINITY BASIN TOTAL** | **6,822** | **6,874** | **6,966** | **7,070** | **7,186** | **7,371** |
| | | **HOUSTON COUNTY TOTAL** | **9,895** | **9,915** | **9,988** | **10,066** | **10,158** | **10,332** |
| BROOKELAND FWSD | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 39 | 38 | 37 | 36 | 36 | 36 |
| JASPER | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 4,790 | 4,790 | 4,790 | 4,790 | 4,790 | 4,790 |
| RAYBURN COUNTRY MUD | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 178 | 174 | 170 | 167 | 167 | 167 |
| RURAL WSC | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 107 | 105 | 102 | 101 | 100 | 100 |
| SOUTH JASPER COUNTY WSC | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 31 | 30 | 28 | 28 | 28 | 28 |
| UPPER JASPER COUNTY WATER AUTHORITY | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 145 | 143 | 140 | 139 | 139 | 139 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 1,385 | 1,333 | 1,242 | 1,190 | 1,178 | 1,178 |
| MANUFACTURING | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 31,230 | 31,231 | 31,231 | 31,231 | 31,231 | 31,231 |
| MANUFACTURING | I | NECHES RUN-OF-RIVER | 546 | 546 | 546 | 546 | 546 | 546 |
| MANUFACTURING | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 59,828 | 59,828 | 59,828 | 59,828 | 59,828 | 59,828 |
| MINING | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 70 | 56 | 42 | 27 | 13 | 8 |
| LIVESTOCK | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 115 | 115 | 115 | 115 | 115 | 115 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 332 | 332 | 332 | 332 | 332 | 332 |
| IRRIGATION | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 94 | 94 | 94 | 94 | 94 | 94 |
| | | **NECHES BASIN TOTAL** | **98,890** | **98,815** | **98,697** | **98,624** | **98,597** | **98,592** |
| JASPER COUNTY WCID 1 | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 1,073 | 1,073 | 1,073 | 1,073 | 1,073 | 1,073 |
| KIRBYVILLE | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 584 | 584 | 584 | 584 | 584 | 584 |
| MAURICEVILLE SUD | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 73 | 73 | 71 | 70 | 68 | 68 |
| SOUTH JASPER COUNTY WSC | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 88 | 84 | 82 | 82 | 82 | 82 |
| UPPER JASPER COUNTY WATER AUTHORITY | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 55 | 55 | 54 | 53 | 53 | 53 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 1,159 | 1,183 | 1,233 | 1,259 | 1,265 | 1,265 |
| MANUFACTURING | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 90 | 89 | 89 | 89 | 89 | 89 |
| MANUFACTURING | I | NECHES RUN-OF-RIVER | 2 | 2 | 2 | 2 | 2 | 2 |
| MANUFACTURING | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 172 | 172 | 172 | 172 | 172 | 172 |
| MINING | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 78 | 62 | 46 | 31 | 15 | 8 |
| LIVESTOCK | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 134 | 134 | 134 | 134 | 134 | 134 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 215 | 215 | 215 | 215 | 215 | 215 |
| IRRIGATION | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 57 | 57 | 57 | 57 | 57 | 57 |
| | | **SABINE BASIN TOTAL** | **3,780** | **3,783** | **3,812** | **3,821** | **3,809** | **3,802** |
| | | **JASPER COUNTY TOTAL** | **102,670** | **102,598** | **102,509** | **102,445** | **102,406** | **102,394** |
| BEAUMONT | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 3,211 | 3,211 | 3,211 | 3,211 | 3,211 | 3,211 |
| BEAUMONT | I | NECHES RUN-OF-RIVER | 4,363 | 4,405 | 4,479 | 4,772 | 5,291 | 5,763 |
| BEAUMONT | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2,585 | 2,975 | 3,035 | 2,669 | 2,229 | 1,835 |
| BEVIL OAKS | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 135 | 137 | 139 | 147 | 157 | 169 |
| CHINA | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 4 | 4 | 4 | 4 | 4 | 4 |
| GROVES | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 70 | 67 | 65 | 64 | 64 | 64 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| JEFFERSON COUNTY WCID 10 | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 82 | 83 | 85 | 89 | 95 | 102 |
| MEEKER MWD | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 127 | 128 | 128 | 128 | 133 | 139 |
| MEEKER MWD | I | NECHES RUN-OF-RIVER | 1 | 1 | 1 | 1 | 1 | 2 |
| NEDERLAND | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 88 | 90 | 93 | 98 | 105 | 112 |
| PORT ARTHUR | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 60 | 60 | 59 | 59 | 59 | 59 |
| PORT NECHES | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 744 | 754 | 771 | 809 | 864 | 928 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 2 | 2 | 2 | 2 | 1 | 1 |
| COUNTY-OTHER | I | NECHES RUN-OF-RIVER | 159 | 209 | 262 | 283 | 266 | 250 |
| COUNTY-OTHER | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 22 | 26 | 32 | 39 | 47 | 56 |
| MANUFACTURING | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 10 | 10 | 10 | 10 | 10 | 10 |
| MANUFACTURING | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 80 | 80 | 80 | 80 | 80 | 80 |
| MANUFACTURING | I | NECHES RUN-OF-RIVER | 121,326 | 126,064 | 126,079 | 126,100 | 126,123 | 126,146 |
| MANUFACTURING | I | SABINE RUN-OF-RIVER | 582 | 582 | 582 | 582 | 582 | 582 |
| MANUFACTURING | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 4,324 | 51,094 | 58,470 | 65,828 | 73,187 | 80,841 |
| MINING | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 18 | 33 | 51 | 84 | 107 | 133 |
| MINING | I | LOCAL SURFACE WATER SUPPLY | 110 | 110 | 110 | 110 | 110 | 110 |
| LIVESTOCK | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 16 | 16 | 16 | 16 | 16 | 16 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 64 | 64 | 64 | 64 | 64 | 64 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 9,800 | 9,800 | 9,800 | 9,800 | 9,800 | 9,800 |
| IRRIGATION | I | NECHES-TRINITY INDIRECT REUSE | 958 | 958 | 958 | 958 | 958 | 958 |
| IRRIGATION | I | NECHES-TRINITY RUN-OF-RIVER | 3,546 | 3,546 | 3,546 | 3,546 | 3,546 | 3,546 |
| | | **NECHES BASIN TOTAL** | **152,487** | **204,509** | **212,132** | **219,553** | **227,110** | **234,981** |
| BEAUMONT | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 6,289 | 6,289 | 6,289 | 6,289 | 6,289 | 6,289 |
| BEAUMONT | I | NECHES RUN-OF-RIVER | 9,005 | 9,091 | 9,244 | 9,849 | 10,920 | 11,896 |
| BEAUMONT | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 5,335 | 6,139 | 6,263 | 5,509 | 4,601 | 3,788 |
| CHINA | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 140 | 143 | 147 | 155 | 164 | 177 |
| GROVES | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2,168 | 2,093 | 2,029 | 2,005 | 1,999 | 1,999 |
| JEFFERSON COUNTY WCID 10 | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 411 | 416 | 425 | 445 | 475 | 510 |
| MEEKER MWD | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 381 | 380 | 380 | 380 | 395 | 415 |
| MEEKER MWD | I | NECHES RUN-OF-RIVER | 3 | 3 | 4 | 4 | 4 | 4 |
| NEDERLAND | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2,348 | 2,408 | 2,487 | 2,620 | 2,799 | 3,007 |
| PORT ARTHUR | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 19,745 | 19,715 | 19,489 | 19,442 | 19,423 | 19,422 |
| PORT NECHES | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 687 | 696 | 713 | 748 | 798 | 857 |
| WEST JEFFERSON COUNTY MWD | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 741 | 752 | 772 | 809 | 863 | 927 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 48 | 48 | 48 | 48 | 49 | 49 |
| COUNTY-OTHER | I | NECHES RUN-OF-RIVER | 1,875 | 2,469 | 3,097 | 3,345 | 3,155 | 2,961 |
| COUNTY-OTHER | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 308 | 369 | 444 | 533 | 634 | 746 |
| MANUFACTURING | I | GULF COAST AQUIFER SYSTEM \| HARDIN COUNTY | 10 | 10 | 10 | 10 | 10 | 10 |
| MANUFACTURING | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 1 | 1 | 1 | 1 | 1 | 1 |
| MANUFACTURING | I | NECHES RUN-OF-RIVER | 111,992 | 116,365 | 116,380 | 116,399 | 116,423 | 116,442 |
| MANUFACTURING | I | SABINE RUN-OF-RIVER | 538 | 538 | 538 | 538 | 538 | 538 |
| MANUFACTURING | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 3,934 | 47,104 | 53,915 | 60,707 | 67,499 | 74,564 |
| MINING | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 32 | 39 | 49 | 66 | 78 | 91 |
| MINING | I | NECHES-TRINITY RUN-OF-RIVER | 34 | 34 | 34 | 34 | 34 | 34 |
| STEAM ELECTRIC POWER | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 900 | 900 | 900 | 900 | 900 | 900 |
| LIVESTOCK | I | GULF COAST AQUIFER SYSTEM \| JEFFERSON COUNTY | 190 | 190 | 190 | 190 | 190 | 190 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 736 | 736 | 736 | 736 | 736 | 736 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 130,200 | 130,200 | 130,200 | 130,200 | 130,200 | 130,200 |
| IRRIGATION | I | NECHES-TRINITY INDIRECT REUSE | 12,729 | 12,729 | 12,729 | 12,729 | 12,729 | 12,729 |
| IRRIGATION | I | NECHES-TRINITY RUN-OF-RIVER | 47,108 | 47,108 | 47,108 | 47,108 | 47,108 | 47,108 |
| | | **NECHES-TRINITY BASIN TOTAL** | **357,888** | **406,965** | **414,621** | **421,799** | **429,014** | **436,590** |
| | | **JEFFERSON COUNTY TOTAL** | **510,375** | **611,474** | **626,753** | **641,352** | **656,124** | **671,571** |
| APPLEBY WSC | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 873 | 873 | 874 | 874 | 881 | 971 |
| APPLEBY WSC | I | NACOGDOCHES LAKE/RESERVOIR | 67 | 67 | 66 | 66 | 65 | 65 |
| CARO WSC | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 254 | 272 | 292 | 317 | 347 | 380 |
| CUSHING | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 229 | 229 | 229 | 229 | 229 | 229 |
| D & M WSC | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 1,008 | 1,009 | 1,011 | 1,012 | 1,013 | 1,015 |
| D & M WSC | I | NACOGDOCHES LAKE/RESERVOIR | 186 | 185 | 183 | 182 | 181 | 179 |
| ETOILE WSC | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 255 | 275 | 297 | 323 | 354 | 387 |
| GARRISON | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 565 | 565 | 565 | 565 | 565 | 565 |
| LILLY GROVE SUD | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 761 | 761 | 761 | 761 | 761 | 761 |
| MELROSE WSC | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 781 | 782 | 782 | 782 | 782 | 782 |
| MELROSE WSC | I | NACOGDOCHES LAKE/RESERVOIR | 27 | 26 | 26 | 26 | 26 | 26 |
| NACOGDOCHES | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 1,965 | 2,188 | 2,425 | 2,702 | 3,022 | 3,370 |
| NACOGDOCHES | I | NACOGDOCHES LAKE/RESERVOIR | 4,903 | 5,326 | 5,752 | 6,243 | 6,796 | 7,372 |
| SWIFT WSC | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 666 | 666 | 666 | 666 | 666 | 666 |
| WODEN WSC | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 770 | 770 | 770 | 770 | 770 | 770 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 655 | 764 | 897 | 1,040 | 1,190 | 1,351 |
| COUNTY-OTHER | I | NACOGDOCHES LAKE/RESERVOIR | 48 | 48 | 48 | 48 | 48 | 48 |
| COUNTY-OTHER | I | OTHER AQUIFER \| NACOGDOCHES COUNTY | 79 | 79 | 79 | 79 | 79 | 79 |
| COUNTY-OTHER | I | QUEEN CITY AQUIFER \| NACOGDOCHES COUNTY | 221 | 221 | 221 | 221 | 221 | 221 |
| COUNTY-OTHER | I | SPARTA AQUIFER \| NACOGDOCHES COUNTY | 156 | 156 | 156 | 156 | 156 | 156 |
| COUNTY-OTHER | I | YEGUA-JACKSON AQUIFER \| NACOGDOCHES COUNTY | 26 | 26 | 26 | 26 | 26 | 26 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 1,254 | 1,265 | 1,265 | 1,265 | 1,265 | 1,265 |
| MANUFACTURING | I | NACOGDOCHES LAKE/RESERVOIR | 1,254 | 1,265 | 1,265 | 1,265 | 1,265 | 1,265 |
| MANUFACTURING | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| MINING | I | LOCAL SURFACE WATER SUPPLY | 494 | 494 | 494 | 494 | 494 | 494 |
| MINING | I | OTHER AQUIFER \| NACOGDOCHES COUNTY | 1,031 | 1,031 | 1,031 | 1,031 | 1,031 | 1,031 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 229 | 229 | 229 | 229 | 229 | 229 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 2,386 | 2,386 | 2,386 | 2,386 | 2,386 | 2,386 |
| LIVESTOCK | I | OTHER AQUIFER \| NACOGDOCHES COUNTY | 21 | 21 | 21 | 21 | 21 | 21 |
| LIVESTOCK | I | QUEEN CITY AQUIFER \| NACOGDOCHES COUNTY | 84 | 84 | 84 | 84 | 84 | 84 |
| IRRIGATION | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 373 | 373 | 373 | 373 | 373 | 373 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 67 | 67 | 67 | 67 | 67 | 67 |
| | | **NECHES BASIN TOTAL** | **31,688** | **32,503** | **33,341** | **34,303** | **35,393** | **36,634** |
| | | **NACOGDOCHES COUNTY TOTAL** | **31,688** | **32,503** | **33,341** | **34,303** | **35,393** | **36,634** |
| BROOKELAND FWSD | I | GULF COAST AQUIFER SYSTEM \| NEWTON COUNTY | 68 | 65 | 64 | 62 | 62 | 61 |
| MAURICEVILLE SUD | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 68 | 65 | 64 | 62 | 62 | 61 |
| NEWTON | I | GULF COAST AQUIFER SYSTEM \| NEWTON COUNTY | 483 | 483 | 483 | 483 | 483 | 483 |
| SOUTH NEWTON WSC | I | GULF COAST AQUIFER SYSTEM \| NEWTON COUNTY | 321 | 321 | 321 | 321 | 321 | 321 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| NEWTON COUNTY | 1,425 | 1,425 | 1,425 | 1,425 | 1,425 | 1,425 |
| MANUFACTURING | I | GULF COAST AQUIFER SYSTEM \| NEWTON COUNTY | 433 | 509 | 586 | 656 | 723 | 796 |
| MANUFACTURING | I | SABINE RUN-OF-RIVER | 135 | 135 | 135 | 135 | 135 | 135 |
| MINING | I | GULF COAST AQUIFER SYSTEM \| NEWTON COUNTY | 156 | 156 | 156 | 156 | 156 | 156 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| MINING | I | LOCAL SURFACE WATER SUPPLY | 158 | 158 | 158 | 158 | 158 | 158 |
| STEAM ELECTRIC POWER | I | SABINE RUN-OF-RIVER | 13,442 | 13,442 | 13,442 | 13,442 | 13,442 | 13,442 |
| LIVESTOCK | I | GULF COAST AQUIFER SYSTEM \| NEWTON COUNTY | 104 | 104 | 104 | 104 | 104 | 104 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 155 | 155 | 155 | 155 | 155 | 155 |
| IRRIGATION | I | GULF COAST AQUIFER SYSTEM \| NEWTON COUNTY | 330 | 330 | 330 | 330 | 330 | 330 |
| IRRIGATION | I | SABINE RUN-OF-RIVER | 50 | 50 | 50 | 50 | 50 | 50 |
| | | **SABINE BASIN TOTAL** | **17,328** | **17,398** | **17,473** | **17,539** | **17,606** | **17,677** |
| | | **NEWTON COUNTY TOTAL** | **17,328** | **17,398** | **17,473** | **17,539** | **17,606** | **17,677** |
| BRIDGE CITY | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 126 | 126 | 126 | 126 | 126 | 125 |
| KELLY G BREWER | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 41 | 42 | 42 | 43 | 44 | 44 |
| MAURICEVILLE SUD | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 121 | 121 | 120 | 120 | 121 | 122 |
| ORANGE COUNTY WCID 1 | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 1,553 | 1,569 | 1,576 | 1,595 | 1,614 | 1,631 |
| ORANGEFIELD WSC | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 188 | 192 | 195 | 197 | 199 | 201 |
| PORT ARTHUR | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2 | 2 | 2 | 2 | 2 | 2 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 1,305 | 1,305 | 1,305 | 1,305 | 1,305 | 1,305 |
| MANUFACTURING | I | SABINE RUN-OF-RIVER | 684 | 684 | 684 | 684 | 684 | 684 |
| MANUFACTURING | I | TOLEDO BEND LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 149 | 149 | 149 | 149 | 149 | 147 |
| LIVESTOCK | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 74 | 74 | 74 | 74 | 74 | 74 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 32 | 32 | 32 | 32 | 32 | 32 |
| | | **NECHES BASIN TOTAL** | **4,275** | **4,296** | **4,305** | **4,327** | **4,350** | **4,367** |
| BRIDGE CITY | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 84 | 84 | 84 | 84 | 84 | 84 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 12 | 12 | 13 | 12 | 12 | 12 |
| | | **NECHES-TRINITY BASIN TOTAL** | **96** | **96** | **97** | **96** | **96** | **96** |
| BRIDGE CITY | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 626 | 628 | 627 | 627 | 627 | 627 |
| KELLY G BREWER | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 36 | 36 | 37 | 37 | 37 | 38 |
| MAURICEVILLE SUD | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 1,425 | 1,428 | 1,432 | 1,436 | 1,436 | 1,436 |
| ORANGE | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 2,626 | 2,644 | 2,645 | 2,663 | 2,696 | 2,724 |
| ORANGE COUNTY WCID 2 | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 494 | 500 | 504 | 510 | 517 | 522 |
| ORANGEFIELD WSC | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 293 | 299 | 304 | 308 | 311 | 315 |
| PINEHURST | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 284 | 284 | 285 | 290 | 293 | 296 |
| SOUTH NEWTON WSC | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 100 | 104 | 107 | 109 | 111 | 112 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 1,545 | 1,545 | 1,545 | 1,544 | 1,545 | 1,545 |
| MANUFACTURING | I | SABINE RUN-OF-RIVER | 55,276 | 55,276 | 55,276 | 55,276 | 55,276 | 55,276 |
| MANUFACTURING | I | TOLEDO BEND LAKE/RESERVOIR | 31 | 31 | 31 | 31 | 31 | 31 |
| MINING | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 0 | 0 | 0 | 0 | 0 | 2 |
| MINING | I | LOCAL SURFACE WATER SUPPLY | 178 | 178 | 178 | 178 | 178 | 178 |
| STEAM ELECTRIC POWER | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 1,310 | 1,310 | 1,310 | 1,310 | 1,310 | 1,310 |
| STEAM ELECTRIC POWER | I | SABINE RUN-OF-RIVER | 4,481 | 4,481 | 4,481 | 4,481 | 4,481 | 4,481 |
| LIVESTOCK | I | GULF COAST AQUIFER SYSTEM \| ORANGE COUNTY | 154 | 154 | 154 | 154 | 154 | 154 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 66 | 66 | 66 | 66 | 66 | 66 |
| IRRIGATION | I | DIRECT REUSE | 15 | 15 | 15 | 15 | 15 | 15 |
| IRRIGATION | I | SABINE RUN-OF-RIVER | 1,283 | 1,283 | 1,283 | 1,283 | 1,283 | 1,283 |
| | | **SABINE BASIN TOTAL** | **70,223** | **70,262** | **70,280** | **70,318** | **70,367** | **70,411** |
| | | **ORANGE COUNTY TOTAL** | **74,594** | **74,654** | **74,682** | **74,741** | **74,813** | **74,874** |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| PANOLA COUNTY | 6 | 6 | 6 | 6 | 6 | 6 |
| MINING | I | MURVAUL LAKE/RESERVOIR | 4 | 4 | 3 | 2 | 2 | 2 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| MINING | I | TOLEDO BEND LAKE/RESERVOIR | 4 | 4 | 4 | 4 | 6 | 6 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 27 | 27 | 27 | 27 | 27 | 27 |
| | | **CYPRESS BASIN TOTAL** | **41** | **41** | **40** | **39** | **41** | **41** |
| BECKVILLE | I | CARRIZO-WILCOX AQUIFER \| PANOLA COUNTY | 581 | 581 | 581 | 581 | 581 | 581 |
| CARTHAGE | I | CARRIZO-WILCOX AQUIFER \| PANOLA COUNTY | 49 | 49 | 49 | 49 | 49 | 49 |
| CARTHAGE | I | MURVAUL LAKE/RESERVOIR | 1,601 | 1,602 | 1,595 | 1,599 | 1,610 | 1,621 |
| GILL WSC | D | CARRIZO-WILCOX AQUIFER \| HARRISON COUNTY | 126 | 126 | 126 | 126 | 126 | 126 |
| GILL WSC | D | O' THE PINES LAKE/RESERVOIR | 33 | 33 | 33 | 33 | 33 | 33 |
| MINDEN BRACHFIELD WSC | I | CARRIZO-WILCOX AQUIFER \| PANOLA COUNTY | 4 | 4 | 5 | 5 | 6 | 6 |
| PANOLA-BETHANY WSC | I | CARRIZO-WILCOX AQUIFER \| PANOLA COUNTY | 19 | 19 | 19 | 19 | 19 | 19 |
| TATUM | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 65 | 75 | 81 | 87 | 92 | 96 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| PANOLA COUNTY | 1,503 | 1,503 | 1,503 | 1,503 | 1,503 | 1,503 |
| COUNTY-OTHER | I | MURVAUL LAKE/RESERVOIR | 291 | 291 | 291 | 291 | 291 | 291 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| PANOLA COUNTY | 266 | 267 | 268 | 269 | 271 | 273 |
| MANUFACTURING | I | MURVAUL LAKE/RESERVOIR | 879 | 917 | 955 | 987 | 1,052 | 1,081 |
| MANUFACTURING | I | SABINE RUN-OF-RIVER | 114 | 114 | 114 | 114 | 114 | 114 |
| MINING | I | CARRIZO-WILCOX AQUIFER \| PANOLA COUNTY | 1,489 | 1,489 | 1,489 | 1,489 | 1,489 | 1,489 |
| MINING | I | MURVAUL LAKE/RESERVOIR | 3,546 | 3,511 | 3,026 | 2,559 | 2,170 | 2,361 |
| MINING | I | SABINE RUN-OF-RIVER | 168 | 168 | 168 | 168 | 168 | 168 |
| MINING | I | TOLEDO BEND LAKE/RESERVOIR | 3,896 | 4,196 | 4,496 | 4,496 | 5,494 | 5,494 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| PANOLA COUNTY | 416 | 416 | 416 | 416 | 416 | 416 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 1,227 | 1,227 | 1,227 | 1,227 | 1,227 | 1,227 |
| IRRIGATION | I | CARRIZO-WILCOX AQUIFER \| PANOLA COUNTY | 450 | 450 | 450 | 450 | 450 | 450 |
| IRRIGATION | I | SABINE RUN-OF-RIVER | 152 | 152 | 152 | 152 | 152 | 152 |
| | | **SABINE BASIN TOTAL** | **16,875** | **17,190** | **17,044** | **16,620** | **17,313** | **17,550** |
| | | **PANOLA COUNTY TOTAL** | **16,916** | **17,231** | **17,084** | **16,659** | **17,354** | **17,591** |
| CHESTER WSC | I | GULF COAST AQUIFER SYSTEM \| POLK COUNTY | 39 | 39 | 39 | 39 | 39 | 40 |
| CORRIGAN | I | OTHER AQUIFER \| POLK COUNTY | 231 | 248 | 260 | 276 | 288 | 299 |
| DAMASCUS-STRYKER WSC | I | GULF COAST AQUIFER SYSTEM \| POLK COUNTY | 194 | 210 | 222 | 234 | 245 | 254 |
| LAKE LIVINGSTON WSC | I | GULF COAST AQUIFER SYSTEM \| POLK COUNTY | 68 | 76 | 84 | 93 | 102 | 112 |
| MOSCOW WSC | I | GULF COAST AQUIFER SYSTEM \| POLK COUNTY | 71 | 71 | 71 | 71 | 71 | 71 |
| SODA WSC | H | GULF COAST AQUIFER SYSTEM \| POLK COUNTY | 11 | 12 | 12 | 13 | 13 | 14 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| POLK COUNTY | 583 | 637 | 680 | 722 | 763 | 797 |
| COUNTY-OTHER | I | OTHER AQUIFER \| POLK COUNTY | 160 | 160 | 160 | 160 | 160 | 160 |
| MANUFACTURING | I | GULF COAST AQUIFER SYSTEM \| POLK COUNTY | 166 | 249 | 336 | 416 | 486 | 562 |
| MANUFACTURING | I | OTHER AQUIFER \| POLK COUNTY | 447 | 447 | 447 | 447 | 447 | 447 |
| MINING | I | GULF COAST AQUIFER SYSTEM \| POLK COUNTY | 83 | 83 | 83 | 83 | 83 | 83 |
| MINING | I | LOCAL SURFACE WATER SUPPLY | 20 | 20 | 20 | 20 | 20 | 20 |
| MINING | I | OTHER AQUIFER \| POLK COUNTY | 83 | 83 | 83 | 83 | 83 | 83 |
| LIVESTOCK | I | GULF COAST AQUIFER SYSTEM \| POLK COUNTY | 231 | 231 | 231 | 231 | 231 | 231 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 396 | 396 | 396 | 396 | 396 | 396 |
| LIVESTOCK | I | OTHER AQUIFER \| POLK COUNTY | 1 | 1 | 1 | 1 | 1 | 1 |
| LIVESTOCK | I | YEGUA-JACKSON AQUIFER \| POLK COUNTY | 6 | 6 | 6 | 6 | 6 | 6 |
| IRRIGATION | I | GULF COAST AQUIFER SYSTEM \| POLK COUNTY | 769 | 769 | 769 | 769 | 769 | 769 |
| | | **NECHES BASIN TOTAL** | **3,559** | **3,738** | **3,900** | **4,060** | **4,203** | **4,345** |
| | | **POLK COUNTY TOTAL** | **3,559** | **3,738** | **3,900** | **4,060** | **4,203** | **4,345** |
| EBENEZER WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 130 | 141 | 152 | 165 | 180 | 196 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| GASTON WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 192 | 205 | 220 | 238 | 259 | 282 |
| GOODSPRINGS WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 260 | 275 | 292 | 315 | 343 | 372 |
| HENDERSON | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 2,466 | 2,466 | 2,466 | 2,466 | 2,466 | 2,466 |
| HENDERSON | D | FORK LAKE/RESERVOIR | 3,470 | 3,469 | 3,470 | 3,470 | 3,470 | 3,470 |
| HENDERSON | I | STRIKER LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| JACOBS WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 10 | 11 | 11 | 12 | 13 | 15 |
| MINDEN BRACHFIELD WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 70 | 78 | 86 | 94 | 102 | 110 |
| MT ENTERPRISE WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 306 | 330 | 356 | 388 | 422 | 460 |
| NEW LONDON | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 482 | 530 | 576 | 630 | 688 | 748 |
| OVERTON | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 74 | 73 | 74 | 73 | 73 | 73 |
| SOUTH RUSK COUNTY WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 188 | 200 | 213 | 230 | 250 | 272 |
| WRIGHT CITY WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 84 | 84 | 84 | 84 | 84 | 85 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 2,446 | 2,446 | 2,446 | 2,446 | 2,446 | 2,446 |
| COUNTY-OTHER | I | OTHER AQUIFER \| RUSK COUNTY | 4 | 4 | 4 | 4 | 4 | 4 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 333 | 357 | 377 | 395 | 422 | 450 |
| MANUFACTURING | I | NECHES RUN-OF-RIVER | 1 | 1 | 1 | 1 | 1 | 1 |
| MINING | I | LOCAL SURFACE WATER SUPPLY | 210 | 0 | 0 | 0 | 0 | 0 |
| MINING | I | OTHER AQUIFER \| RUSK COUNTY | 270 | 270 | 270 | 270 | 270 | 270 |
| STEAM ELECTRIC POWER | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 127 | 127 | 127 | 127 | 127 | 127 |
| STEAM ELECTRIC POWER | I | MARTIN LAKE/RESERVOIR | 2,479 | 2,479 | 2,479 | 2,479 | 2,479 | 2,479 |
| STEAM ELECTRIC POWER | I | TOLEDO BEND LAKE/RESERVOIR | 1,777 | 1,777 | 1,777 | 1,777 | 1,777 | 1,777 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 156 | 156 | 156 | 156 | 156 | 156 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 808 | 808 | 808 | 808 | 808 | 808 |
| IRRIGATION | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 215 | 215 | 215 | 215 | 215 | 215 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 80 | 80 | 80 | 80 | 80 | 80 |
| | | **NECHES BASIN TOTAL** | **16,638** | **16,582** | **16,740** | **16,923** | **17,135** | **17,362** |
| CHALK HILL SUD | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 1,043 | 1,043 | 1,043 | 1,043 | 1,043 | 1,043 |
| CROSS ROADS SUD | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 397 | 398 | 399 | 399 | 398 | 397 |
| CROSS ROADS SUD | D | FORK LAKE/RESERVOIR | 248 | 248 | 249 | 249 | 248 | 248 |
| CRYSTAL FARMS WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 104 | 111 | 118 | 127 | 139 | 151 |
| ELDERVILLE WSC | I | CHEROKEE LAKE/RESERVOIR | 95 | 96 | 96 | 96 | 95 | 94 |
| ELDERVILLE WSC | D | FORK LAKE/RESERVOIR | 97 | 97 | 97 | 97 | 97 | 96 |
| HENDERSON | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 400 | 400 | 400 | 400 | 400 | 400 |
| HENDERSON | D | FORK LAKE/RESERVOIR | 603 | 604 | 603 | 603 | 603 | 603 |
| HENDERSON | I | SABINE RUN-OF-RIVER | 10 | 10 | 10 | 10 | 10 | 10 |
| HENDERSON | I | STRIKER LAKE/RESERVOIR | 0 | 0 | 0 | 0 | 0 | 0 |
| JACOBS WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 273 | 292 | 314 | 340 | 370 | 402 |
| KILGORE | D | CARRIZO-WILCOX AQUIFER \| GREGG COUNTY | 365 | 370 | 370 | 369 | 366 | 361 |
| KILGORE | D | FORK LAKE/RESERVOIR | 506 | 841 | 841 | 839 | 832 | 821 |
| MINDEN BRACHFIELD WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 32 | 34 | 38 | 42 | 46 | 50 |
| NEW LONDON | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 388 | 426 | 464 | 508 | 554 | 602 |
| NEW PROSPECT WSC | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 92 | 96 | 102 | 110 | 118 | 130 |
| OVERTON | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 604 | 605 | 604 | 605 | 605 | 605 |
| SOUTHERN UTILITIES | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 44 | 47 | 50 | 54 | 59 | 64 |
| SOUTHERN UTILITIES | D | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 72 | 77 | 82 | 80 | 60 | 46 |
| SOUTHERN UTILITIES | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 53 | 54 | 56 | 59 | 71 | 83 |
| SOUTHERN UTILITIES | I | PALESTINE LAKE/RESERVOIR | 2 | 2 | 2 | 2 | 2 | 2 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| SOUTHERN UTILITIES | I | TYLER LAKE/RESERVOIR | 2 | 2 | 2 | 2 | 2 | 2 |
| TATUM | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 358 | 348 | 342 | 336 | 336 | 367 |
| WEST GREGG SUD | D | CARRIZO-WILCOX AQUIFER \| GREGG COUNTY | 27 | 28 | 28 | 27 | 27 | 27 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 1,800 | 1,800 | 1,800 | 1,800 | 1,800 | 1,800 |
| COUNTY-OTHER | I | OTHER AQUIFER \| RUSK COUNTY | 81 | 81 | 81 | 81 | 81 | 81 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 13 | 14 | 15 | 15 | 16 | 18 |
| MANUFACTURING | D | FORK LAKE/RESERVOIR | 1 | 1 | 1 | 1 | 1 | 1 |
| MINING | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 201 | 201 | 201 | 201 | 201 | 201 |
| MINING | I | LOCAL SURFACE WATER SUPPLY | 1,020 | 1,230 | 1,230 | 1,230 | 1,230 | 1,230 |
| MINING | I | OTHER AQUIFER \| RUSK COUNTY | 214 | 214 | 214 | 214 | 214 | 214 |
| STEAM ELECTRIC POWER | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 1,152 | 1,152 | 1,152 | 1,152 | 1,152 | 1,152 |
| STEAM ELECTRIC POWER | I | MARTIN LAKE/RESERVOIR | 22,521 | 22,521 | 22,521 | 22,521 | 22,521 | 22,521 |
| STEAM ELECTRIC POWER | I | TOLEDO BEND LAKE/RESERVOIR | 16,145 | 16,145 | 16,145 | 16,145 | 16,145 | 16,145 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 224 | 232 | 241 | 252 | 262 | 262 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 308 | 308 | 308 | 308 | 308 | 308 |
| IRRIGATION | I | OTHER AQUIFER \| RUSK COUNTY | 170 | 170 | 170 | 170 | 170 | 170 |
| IRRIGATION | I | SABINE RUN-OF-RIVER | 127 | 127 | 127 | 127 | 127 | 127 |
| | | **SABINE BASIN TOTAL** | **49,792** | **50,425** | **50,516** | **50,614** | **50,709** | **50,834** |
| | | **RUSK COUNTY TOTAL** | **66,430** | **67,007** | **67,256** | **67,537** | **67,844** | **68,196** |
| BROOKELAND FWSD | I | CARRIZO-WILCOX AQUIFER \| SABINE COUNTY | 67 | 65 | 63 | 62 | 62 | 62 |
| G M WSC | I | TOLEDO BEND LAKE/RESERVOIR | 57 | 57 | 57 | 57 | 57 | 57 |
| PINELAND | I | CARRIZO-WILCOX AQUIFER \| SABINE COUNTY | 90 | 86 | 82 | 81 | 81 | 81 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| RUSK COUNTY | 85 | 85 | 85 | 85 | 85 | 85 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| SABINE COUNTY | 10 | 10 | 10 | 10 | 10 | 10 |
| COUNTY-OTHER | I | TOLEDO BEND LAKE/RESERVOIR | 29 | 28 | 29 | 29 | 29 | 29 |
| COUNTY-OTHER | I | YEGUA-JACKSON AQUIFER \| SABINE COUNTY | 59 | 59 | 59 | 59 | 59 | 59 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| SABINE COUNTY | 45 | 45 | 45 | 45 | 45 | 45 |
| MANUFACTURING | I | DIRECT REUSE | 20 | 20 | 20 | 20 | 20 | 20 |
| MANUFACTURING | I | NECHES RUN-OF-RIVER | 178 | 178 | 178 | 178 | 178 | 178 |
| MANUFACTURING | I | YEGUA-JACKSON AQUIFER \| SABINE COUNTY | 600 | 600 | 600 | 600 | 600 | 600 |
| MINING | I | TOLEDO BEND LAKE/RESERVOIR | 320 | 319 | 319 | 319 | 320 | 320 |
| MINING | I | YEGUA-JACKSON AQUIFER \| SABINE COUNTY | 44 | 44 | 44 | 44 | 44 | 44 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| SABINE COUNTY | 8 | 8 | 8 | 8 | 8 | 8 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 71 | 71 | 71 | 71 | 71 | 71 |
| LIVESTOCK | I | SPARTA AQUIFER \| SABINE COUNTY | 3 | 3 | 3 | 3 | 3 | 3 |
| | | **NECHES BASIN TOTAL** | **1,686** | **1,678** | **1,673** | **1,671** | **1,672** | **1,672** |
| BROOKELAND FWSD | I | CARRIZO-WILCOX AQUIFER \| SABINE COUNTY | 9 | 9 | 9 | 9 | 9 | 9 |
| G M WSC | I | CARRIZO-WILCOX AQUIFER \| SABINE COUNTY | 270 | 270 | 270 | 270 | 270 | 270 |
| G M WSC | I | TOLEDO BEND LAKE/RESERVOIR | 420 | 420 | 420 | 420 | 420 | 420 |
| HEMPHILL | I | TOLEDO BEND LAKE/RESERVOIR | 743 | 743 | 743 | 743 | 743 | 743 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| SABINE COUNTY | 85 | 85 | 85 | 85 | 85 | 85 |
| COUNTY-OTHER | I | OTHER AQUIFER \| SABINE COUNTY | 3 | 3 | 3 | 3 | 3 | 3 |
| COUNTY-OTHER | I | TOLEDO BEND LAKE/RESERVOIR | 450 | 451 | 450 | 450 | 450 | 450 |
| MINING | I | OTHER AQUIFER \| SABINE COUNTY | 234 | 234 | 234 | 234 | 234 | 234 |
| MINING | I | TOLEDO BEND LAKE/RESERVOIR | 1,680 | 1,681 | 1,681 | 1,681 | 1,680 | 1,680 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| SABINE COUNTY | 3 | 3 | 3 | 3 | 3 | 3 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 634 | 634 | 634 | 634 | 634 | 634 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| LIVESTOCK | I | SPARTA AQUIFER \| SABINE COUNTY | 3 | 3 | 3 | 3 | 3 | 3 |
| LIVESTOCK | I | YEGUA-JACKSON AQUIFER \| SABINE COUNTY | 10 | 10 | 10 | 10 | 10 | 10 |
| | | **SABINE BASIN TOTAL** | **4,544** | **4,546** | **4,545** | **4,545** | **4,544** | **4,544** |
| | | **SABINE COUNTY TOTAL** | **6,230** | **6,224** | **6,218** | **6,216** | **6,216** | **6,216** |
| SAN AUGUSTINE | I | SAN AUGUSTINE LAKE/RESERVOIR | 519 | 517 | 517 | 517 | 517 | 517 |
| SAN AUGUSTINE RURAL WSC | I | CARRIZO-WILCOX AQUIFER \| SAN AUGUSTINE COUNTY | 113 | 108 | 104 | 102 | 102 | 102 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| NACOGDOCHES COUNTY | 1 | 1 | 1 | 1 | 1 | 1 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| SAN AUGUSTINE COUNTY | 428 | 428 | 428 | 428 | 428 | 428 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| JASPER COUNTY | 2 | 2 | 2 | 2 | 2 | 2 |
| COUNTY-OTHER | I | OTHER AQUIFER \| SAN AUGUSTINE COUNTY | 156 | 156 | 156 | 156 | 156 | 156 |
| COUNTY-OTHER | I | SAN AUGUSTINE LAKE/RESERVOIR | 98 | 100 | 100 | 100 | 100 | 100 |
| COUNTY-OTHER | I | SPARTA AQUIFER \| SAN AUGUSTINE COUNTY | 79 | 79 | 79 | 79 | 79 | 79 |
| COUNTY-OTHER | I | YEGUA-JACKSON AQUIFER \| SABINE COUNTY | 4 | 4 | 4 | 4 | 4 | 4 |
| COUNTY-OTHER | I | YEGUA-JACKSON AQUIFER \| SAN AUGUSTINE COUNTY | 231 | 231 | 231 | 231 | 231 | 231 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| SAN AUGUSTINE COUNTY | 17 | 17 | 17 | 17 | 17 | 17 |
| MINING | I | OTHER AQUIFER \| SAN AUGUSTINE COUNTY | 1,230 | 1,230 | 1,230 | 1,230 | 1,230 | 1,230 |
| MINING | I | SAN AUGUSTINE LAKE/RESERVOIR | 468 | 518 | 594 | 609 | 624 | 635 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| SAN AUGUSTINE COUNTY | 26 | 26 | 26 | 26 | 26 | 26 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 465 | 465 | 465 | 465 | 465 | 465 |
| LIVESTOCK | I | SPARTA AQUIFER \| SAN AUGUSTINE COUNTY | 12 | 12 | 12 | 12 | 12 | 12 |
| IRRIGATION | I | CARRIZO-WILCOX AQUIFER \| SAN AUGUSTINE COUNTY | 62 | 62 | 62 | 62 | 62 | 62 |
| | | **NECHES BASIN TOTAL** | **3,911** | **3,956** | **4,028** | **4,041** | **4,056** | **4,067** |
| G M WSC | I | CARRIZO-WILCOX AQUIFER \| SAN AUGUSTINE COUNTY | 26 | 26 | 26 | 26 | 26 | 26 |
| G M WSC | I | TOLEDO BEND LAKE/RESERVOIR | 40 | 40 | 40 | 40 | 40 | 40 |
| SAN AUGUSTINE RURAL WSC | I | CARRIZO-WILCOX AQUIFER \| SAN AUGUSTINE COUNTY | 7 | 6 | 6 | 6 | 6 | 6 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| SAN AUGUSTINE COUNTY | 88 | 88 | 88 | 88 | 88 | 88 |
| MINING | I | SAN AUGUSTINE LAKE/RESERVOIR | 200 | 150 | 74 | 59 | 44 | 33 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| SAN AUGUSTINE COUNTY | 16 | 25 | 36 | 48 | 62 | 62 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 71 | 71 | 71 | 71 | 71 | 71 |
| LIVESTOCK | I | OTHER AQUIFER \| SAN AUGUSTINE COUNTY | 9 | 9 | 9 | 9 | 9 | 9 |
| LIVESTOCK | I | YEGUA-JACKSON AQUIFER \| SAN AUGUSTINE COUNTY | 9 | 9 | 9 | 9 | 9 | 9 |
| | | **SABINE BASIN TOTAL** | **466** | **424** | **359** | **356** | **355** | **344** |
| | | **SAN AUGUSTINE COUNTY TOTAL** | **4,377** | **4,380** | **4,387** | **4,397** | **4,411** | **4,411** |
| CHOICE WSC | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 32 | 33 | 34 | 36 | 37 | 39 |
| SAND HILLS WSC | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 150 | 156 | 163 | 170 | 178 | 186 |
| TIMPSON | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 7 | 7 | 7 | 8 | 8 | 8 |
| COUNTY-OTHER | I | PINKSTON LAKE/RESERVOIR | 152 | 157 | 161 | 168 | 175 | 183 |
| COUNTY-OTHER | I | TIMPSON LAKE/RESERVOIR | 350 | 350 | 350 | 350 | 350 | 350 |
| MINING | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 483 | 483 | 483 | 483 | 483 | 482 |
| MINING | I | TOLEDO BEND LAKE/RESERVOIR | 448 | 364 | 280 | 280 | 0 | 0 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 108 | 108 | 108 | 108 | 108 | 108 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 334 | 334 | 334 | 334 | 334 | 334 |
| IRRIGATION | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 16 | 16 | 16 | 16 | 16 | 16 |
| | | **NECHES BASIN TOTAL** | **2,080** | **2,008** | **1,936** | **1,953** | **1,689** | **1,706** |
| CENTER | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 8 | 8 | 8 | 8 | 8 | 178 |
| CENTER | I | CENTER LAKE/RESERVOIR | 511 | 509 | 508 | 507 | 506 | 505 |
| CENTER | I | PINKSTON LAKE/RESERVOIR | 1,609 | 1,324 | 1,322 | 1,320 | 1,317 | 1,315 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| CHOICE WSC | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 95 | 98 | 100 | 104 | 109 | 113 |
| EAST LAMAR WSC | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 109 | 113 | 117 | 122 | 127 | 133 |
| FIVE WAY WSC | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 163 | 168 | 172 | 179 | 187 | 195 |
| FLAT FORK WSC | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 129 | 133 | 136 | 142 | 149 | 155 |
| HUXLEY | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 285 | 295 | 304 | 318 | 333 | 347 |
| JOAQUIN | I | TOLEDO BEND LAKE/RESERVOIR | 183 | 188 | 193 | 201 | 208 | 215 |
| MCCLELLAND WSC | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 216 | 225 | 234 | 244 | 256 | 267 |
| SAND HILLS WSC | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 147 | 154 | 160 | 168 | 176 | 183 |
| TENAHA | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 442 | 442 | 442 | 442 | 442 | 442 |
| TIMPSON | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 558 | 558 | 558 | 558 | 558 | 558 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 718 | 742 | 765 | 794 | 830 | 866 |
| COUNTY-OTHER | I | CENTER LAKE/RESERVOIR | 30 | 31 | 32 | 33 | 35 | 36 |
| COUNTY-OTHER | I | TOLEDO BEND LAKE/RESERVOIR | 180 | 175 | 170 | 162 | 155 | 148 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 175 | 175 | 175 | 175 | 175 | 175 |
| MANUFACTURING | I | CENTER LAKE/RESERVOIR | 820 | 929 | 929 | 929 | 929 | 929 |
| MANUFACTURING | I | DIRECT REUSE | 151 | 164 | 177 | 188 | 202 | 217 |
| MANUFACTURING | I | PINKSTON LAKE/RESERVOIR | 2,136 | 2,419 | 2,419 | 2,419 | 2,419 | 2,419 |
| MINING | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 1,242 | 1,242 | 1,242 | 1,242 | 1,242 | 1,243 |
| MINING | I | TOLEDO BEND LAKE/RESERVOIR | 1,152 | 936 | 720 | 720 | 0 | 0 |
| LIVESTOCK | I | CARRIZO-WILCOX AQUIFER \| SHELBY COUNTY | 458 | 458 | 458 | 458 | 458 | 458 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 2,998 | 2,998 | 2,998 | 2,998 | 2,998 | 2,998 |
| IRRIGATION | I | DIRECT REUSE | 82 | 82 | 82 | 82 | 82 | 82 |
| | | **SABINE BASIN TOTAL** | **14,597** | **14,566** | **14,421** | **14,513** | **13,901** | **14,177** |
| | | **SHELBY COUNTY TOTAL** | **16,677** | **16,574** | **16,357** | **16,466** | **15,590** | **15,883** |
| ALGONQUIN WATER RESOURCES OF TEXAS | D | CARRIZO-WILCOX AQUIFER \| WOOD COUNTY | 202 | 201 | 202 | 202 | 202 | 202 |
| ARP | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 175 | 178 | 182 | 189 | 197 | 206 |
| BEN WHEELER WSC | D | CARRIZO-WILCOX AQUIFER \| VAN ZANDT COUNTY | 2 | 4 | 4 | 3 | 3 | 3 |
| BULLARD | I | CARRIZO-WILCOX AQUIFER \| CHEROKEE COUNTY | 16 | 16 | 16 | 16 | 16 | 16 |
| BULLARD | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 587 | 588 | 589 | 590 | 591 | 591 |
| CARROLL WSC | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 99 | 106 | 115 | 125 | 137 | 150 |
| CRYSTAL SYSTEMS TEXAS | D | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 165 | 158 | 138 | 105 | 50 | 0 |
| CRYSTAL SYSTEMS TEXAS | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 83 | 67 | 46 | 20 | 0 | 0 |
| DEAN WSC | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 765 | 774 | 786 | 808 | 836 | 867 |
| EMERALD BAY MUD | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 175 | 170 | 167 | 166 | 165 | 165 |
| JACKSON WSC | D | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 212 | 222 | 234 | 252 | 272 | 294 |
| LINDALE | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 424 | 424 | 424 | 424 | 424 | 424 |
| LINDALE RURAL WSC | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 221 | 229 | 239 | 253 | 271 | 290 |
| OVERTON | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 33 | 40 | 48 | 56 | 65 | 74 |
| R P M WSC | D | CARRIZO-WILCOX AQUIFER \| VAN ZANDT COUNTY | 16 | 15 | 15 | 14 | 14 | 14 |
| R P M WSC | D | QUEEN CITY AQUIFER \| VAN ZANDT COUNTY | 15 | 14 | 14 | 13 | 14 | 14 |
| SOUTHERN UTILITIES | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 4,471 | 4,539 | 4,609 | 4,794 | 5,570 | 6,263 |
| SOUTHERN UTILITIES | I | PALESTINE LAKE/RESERVOIR | 128 | 132 | 136 | 143 | 150 | 158 |
| SOUTHERN UTILITIES | I | TYLER LAKE/RESERVOIR | 145 | 150 | 155 | 162 | 170 | 179 |
| TROUP | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 416 | 447 | 481 | 520 | 564 | 610 |
| TYLER | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 2,228 | 2,370 | 2,522 | 2,703 | 2,905 | 3,115 |
| TYLER | I | PALESTINE LAKE/RESERVOIR | 8,353 | 8,888 | 9,456 | 10,138 | 10,892 | 11,679 |
| TYLER | I | TYLER LAKE/RESERVOIR | 9,468 | 10,073 | 10,718 | 11,490 | 12,344 | 13,237 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| WALNUT GROVE WSC | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 593 | 593 | 593 | 593 | 593 | 593 |
| WALNUT GROVE WSC | I | JACKSONVILLE LAKE/RESERVOIR | 13 | 13 | 13 | 13 | 13 | 13 |
| WALNUT GROVE WSC | I | PALESTINE LAKE/RESERVOIR | 623 | 623 | 623 | 623 | 623 | 623 |
| WALNUT GROVE WSC | I | TYLER LAKE/RESERVOIR | 706 | 706 | 706 | 706 | 706 | 706 |
| WHITEHOUSE | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 502 | 667 | 839 | 1,036 | 1,246 | 1,464 |
| WHITEHOUSE | I | PALESTINE LAKE/RESERVOIR | 311 | 311 | 311 | 311 | 311 | 311 |
| WHITEHOUSE | I | TYLER LAKE/RESERVOIR | 353 | 353 | 353 | 353 | 353 | 353 |
| WRIGHT CITY WSC | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 403 | 403 | 403 | 403 | 403 | 415 |
| COUNTY-OTHER | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 26 | 26 | 26 | 26 | 26 | 26 |
| COUNTY-OTHER | I | PALESTINE LAKE/RESERVOIR | 100 | 100 | 100 | 100 | 100 | 100 |
| COUNTY-OTHER | I | QUEEN CITY AQUIFER \| SMITH COUNTY | 584 | 761 | 941 | 1,143 | 1,356 | 1,577 |
| COUNTY-OTHER | I | TYLER LAKE/RESERVOIR | 113 | 113 | 113 | 113 | 113 | 113 |
| MANUFACTURING | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 616 | 648 | 678 | 704 | 740 | 779 |
| MANUFACTURING | I | OTHER AQUIFER \| SMITH COUNTY | 209 | 209 | 209 | 209 | 209 | 209 |
| MANUFACTURING | I | PALESTINE LAKE/RESERVOIR | 1,380 | 1,499 | 1,614 | 1,711 | 1,844 | 1,988 |
| MANUFACTURING | I | TYLER LAKE/RESERVOIR | 1,451 | 1,586 | 1,716 | 1,826 | 1,977 | 2,140 |
| MINING | I | OTHER AQUIFER \| SMITH COUNTY | 26 | 26 | 26 | 26 | 26 | 26 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 605 | 605 | 605 | 605 | 605 | 605 |
| LIVESTOCK | I | QUEEN CITY AQUIFER \| SMITH COUNTY | 510 | 510 | 510 | 510 | 510 | 510 |
| IRRIGATION | I | BELLWOOD LAKE/RESERVOIR | 400 | 400 | 400 | 400 | 400 | 400 |
| IRRIGATION | I | CARRIZO-WILCOX AQUIFER \| SMITH COUNTY | 225 | 225 | 225 | 225 | 225 | 0 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 50 | 50 | 50 | 50 | 50 | 50 |
| IRRIGATION | I | PALESTINE LAKE/RESERVOIR | 487 | 478 | 469 | 462 | 456 | 456 |
| IRRIGATION | I | QUEEN CITY AQUIFER \| SMITH COUNTY | 324 | 365 | 406 | 446 | 487 | 753 |
| | | **NECHES BASIN TOTAL** | **39,009** | **41,075** | **43,225** | **45,780** | **49,224** | **52,761** |
| | | **SMITH COUNTY TOTAL** | **39,009** | **41,075** | **43,225** | **45,780** | **49,224** | **52,761** |
| CENTERVILLE WSC | I | YEGUA-JACKSON AQUIFER \| TRINITY COUNTY | 106 | 111 | 109 | 105 | 109 | 114 |
| GROVETON | H | LIVINGSTON-WALLISVILLE LAKE/RESERVOIR SYSTEM | 282 | 283 | 282 | 283 | 284 | 283 |
| GROVETON | H | YEGUA-JACKSON AQUIFER \| TRINITY COUNTY | 27 | 28 | 27 | 26 | 27 | 28 |
| PENNINGTON WSC | I | YEGUA-JACKSON AQUIFER \| TRINITY COUNTY | 52 | 54 | 53 | 50 | 52 | 54 |
| COUNTY-OTHER | H | LIVINGSTON-WALLISVILLE LAKE/RESERVOIR SYSTEM | 250 | 250 | 250 | 250 | 250 | 250 |
| COUNTY-OTHER | I | YEGUA-JACKSON AQUIFER \| TRINITY COUNTY | 10 | 10 | 10 | 10 | 10 | 10 |
| MINING | H | YEGUA-JACKSON AQUIFER \| TRINITY COUNTY | 5 | 5 | 5 | 5 | 5 | 5 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 449 | 449 | 449 | 449 | 449 | 449 |
| LIVESTOCK | I | YEGUA-JACKSON AQUIFER \| TRINITY COUNTY | 29 | 29 | 29 | 29 | 29 | 29 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 3 | 3 | 3 | 3 | 3 | 3 |
| IRRIGATION | I | YEGUA-JACKSON AQUIFER \| TRINITY COUNTY | 300 | 300 | 300 | 300 | 300 | 300 |
| | | **NECHES BASIN TOTAL** | **1,513** | **1,522** | **1,517** | **1,510** | **1,518** | **1,525** |
| | | **TRINITY COUNTY TOTAL** | **1,513** | **1,522** | **1,517** | **1,510** | **1,518** | **1,525** |
| CHESTER WSC | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 355 | 355 | 355 | 355 | 355 | 355 |
| COLMESNEIL | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 355 | 355 | 355 | 355 | 355 | 355 |
| CYPRESS CREEK WSC | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 117 | 115 | 113 | 112 | 112 | 112 |
| LAKE LIVINGSTON WSC | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 5 | 5 | 5 | 5 | 5 | 5 |
| MOSCOW WSC | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 2 | 2 | 3 | 3 | 3 | 3 |
| TYLER COUNTY WSC | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 448 | 448 | 448 | 448 | 448 | 448 |
| WARREN WSC | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 448 | 448 | 448 | 448 | 448 | 448 |
| WILDWOOD POA | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 116 | 119 | 120 | 122 | 123 | 125 |

# Region I Water User Group (WUG) Existing Water Supply

| WUG NAME | SOURCE REGION | SOURCE DESCRIPTION | EXISTING SUPPLY (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| WOODVILLE | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 1,159 | 1,159 | 1,159 | 1,159 | 1,159 | 1,159 |
| WOODVILLE | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 4,762 | 4,762 | 4,762 | 4,762 | 4,762 | 4,762 |
| COUNTY-OTHER | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 1,494 | 1,448 | 1,404 | 1,380 | 1,376 | 1,376 |
| MINING | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 229 | 229 | 229 | 229 | 229 | 229 |
| MINING | I | LOCAL SURFACE WATER SUPPLY | 8 | 8 | 8 | 8 | 8 | 8 |
| STEAM ELECTRIC POWER | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 191 | 191 | 191 | 191 | 191 | 191 |
| STEAM ELECTRIC POWER | I | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 838 | 838 | 838 | 838 | 838 | 838 |
| LIVESTOCK | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 75 | 75 | 75 | 75 | 75 | 75 |
| LIVESTOCK | I | LOCAL SURFACE WATER SUPPLY | 239 | 239 | 239 | 239 | 239 | 239 |
| IRRIGATION | I | GULF COAST AQUIFER SYSTEM \| TYLER COUNTY | 559 | 559 | 559 | 559 | 559 | 559 |
| IRRIGATION | I | NECHES RUN-OF-RIVER | 88 | 88 | 88 | 88 | 88 | 88 |
| **NECHES BASIN TOTAL** | | | **11,488** | **11,443** | **11,399** | **11,376** | **11,373** | **11,375** |
| **TYLER COUNTY TOTAL** | | | **11,488** | **11,443** | **11,399** | **11,376** | **11,373** | **11,375** |
| **REGION I TOTAL EXISTING WATER SUPPLY** | | | **1,012,689** | **1,119,035** | **1,138,356** | **1,157,764** | **1,178,171** | **1,200,916** |

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## Attachment 6

## TWDB DB22 Report #6. WUG Identified Water Needs/Surpluses

# Region I Water User Group (WUG) Needs/Surplus*

| | (NEEDS)/SURPLUS (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| **ANDERSON COUNTY - NECHES BASIN** | | | | | | |
| BRUSHY CREEK WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| FRANKSTON | 150 | 142 | 140 | 137 | 131 | 125 |
| FRANKSTON RURAL WSC | 1 | 1 | 0 | 0 | 0 | 0 |
| NECHES WSC | 1 | 1 | 0 | 1 | 0 | 0 |
| NORWOOD WSC | 473 | 475 | 476 | 477 | 477 | 477 |
| PALESTINE | 76 | 78 | 78 | 78 | 77 | 77 |
| SLOCUM WSC | 0 | 1 | 0 | 1 | 0 | 0 |
| WALSTON SPRINGS WSC | 36 | 39 | 44 | 49 | 50 | 50 |
| COUNTY-OTHER | 10 | 8 | 9 | 10 | 11 | 11 |
| MINING | 0 | 0 | 0 | 1 | 0 | 1 |
| STEAM ELECTRIC POWER | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | 174 | 174 | 174 | 174 | 174 | 174 |
| IRRIGATION | 147 | 147 | 147 | 147 | 147 | 147 |
| **ANDERSON COUNTY - TRINITY BASIN** | | | | | | |
| ANDERSON COUNTY CEDAR CREEK WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| B B S WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| B C Y WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| BRUSHY CREEK WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| ELKHART | 179 | 177 | 179 | 182 | 182 | 182 |
| FOUR PINES WSC | 213 | 214 | 218 | 223 | 224 | 224 |
| NORWOOD WSC | 33 | 34 | 35 | 35 | 35 | 35 |
| PALESTINE | 73 | 74 | 73 | 72 | 72 | 72 |
| PLEASANT SPRINGS WSC | 248 | 245 | 244 | 244 | 244 | 244 |
| SLOCUM WSC | 1 | 1 | 1 | 0 | 0 | 0 |
| TDCJ BETO GURNEY & POWLEDGE UNITS | 1 | 0 | 0 | 1 | 0 | 0 |
| TDCJ COFFIELD MICHAEL | 0 | 1 | 0 | 1 | 1 | 1 |
| THE CONSOLIDATED WSC | 130 | 129 | 131 | 133 | 132 | 133 |
| TUCKER WSC | 1 | 0 | 0 | 0 | 1 | 1 |
| WALSTON SPRINGS WSC | 12 | 12 | 11 | 11 | 11 | 11 |
| COUNTY-OTHER | 82 | 71 | 78 | 89 | 91 | 91 |
| MINING | 53 | 33 | 29 | 49 | 72 | 88 |
| LIVESTOCK | 223 | 223 | 223 | 223 | 223 | 223 |
| IRRIGATION | 990 | 990 | 990 | 990 | 990 | 990 |
| **ANGELINA COUNTY - NECHES BASIN** | | | | | | |
| ANGELINA WSC | 272 | 272 | 269 | 258 | 249 | 239 |
| CENTRAL WCID OF ANGELINA COUNTY | 367 | 350 | 322 | 295 | 272 | 251 |
| DIBOLL | 1,976 | 1,956 | 1,938 | 1,903 | 1,873 | 1,844 |
| FOUR WAY SUD | 732 | 714 | 696 | 678 | 658 | 639 |
| HUDSON WSC | 513 | 468 | 430 | 395 | 364 | 337 |
| HUNTINGTON | 803 | 798 | 793 | 786 | 776 | 766 |
| LUFKIN | 0 | 0 | 0 | 0 | 0 | 0 |
| M & M WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| POLLOK-REDTOWN WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| REDLAND WSC | 575 | 577 | 568 | 559 | 551 | 543 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

## Region I Water User Group (WUG) Needs/Surplus*

| | | | | | | |
|---|---|---|---|---|---|---|
| UPPER JASPER COUNTY WATER AUTHORITY | 0 | 0 | 0 | 0 | 0 | 0 |
| WOODLAWN WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| ZAVALLA | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 1,717 | 1,705 | 1,690 | 1,661 | 1,636 | 1,612 |
| MANUFACTURING | 869 | 971 | 1,296 | 1,586 | 1,895 | 2,227 |
| MINING | (473) | (572) | (397) | (299) | (224) | (167) |
| STEAM ELECTRIC POWER | 13,282 | 13,282 | 13,282 | 13,282 | 13,282 | 13,282 |
| LIVESTOCK | 4 | 4 | 4 | 4 | 4 | 4 |
| IRRIGATION | 33 | 33 | 33 | 33 | 33 | 33 |
| **CHEROKEE COUNTY - NECHES BASIN** | | | | | | |
| AFTON GROVE WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| ALTO | 272 | 255 | 238 | 215 | 189 | 161 |
| ALTO RURAL WSC | 99 | 59 | 2 | (65) | (137) | (215) |
| BLACKJACK WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| BULLARD | 15 | 13 | 11 | 8 | 6 | 5 |
| CRAFT TURNEY WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| GUM CREEK WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| JACKSONVILLE | 0 | 0 | 0 | 0 | 0 | 0 |
| NEW SUMMERFIELD | 95 | 84 | 73 | 58 | 41 | 22 |
| NORTH CHEROKEE WSC | 1 | 0 | 1 | 1 | 0 | 1 |
| POLLOK-REDTOWN WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| RUSK | 361 | 290 | 216 | 116 | 2 | 0 |
| RUSK RURAL WSC | 256 | 241 | 225 | 199 | 169 | 134 |
| SOUTH RUSK COUNTY WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| SOUTHERN UTILITIES | (276) | (283) | (295) | (309) | (329) | (354) |
| TROUP | 0 | 0 | 0 | 0 | 0 | 0 |
| WELLS | 241 | 232 | 223 | 210 | 195 | 178 |
| WEST JACKSONVILLE WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| WRIGHT CITY WSC | 33 | 29 | 25 | 19 | 11 | 0 |
| COUNTY-OTHER | 1,576 | 1,570 | 1,567 | 1,563 | 1,560 | 1,557 |
| MANUFACTURING | 309 | 324 | 351 | 374 | 412 | 453 |
| MINING | (238) | (247) | (210) | (147) | (84) | (40) |
| STEAM ELECTRIC POWER | 1,789 | 1,789 | 1,789 | 1,789 | 1,789 | 1,789 |
| LIVESTOCK | 9 | 9 | 9 | 9 | 9 | 9 |
| IRRIGATION | 21 | 16 | 12 | 8 | 5 | 5 |
| **HARDIN COUNTY - NECHES BASIN** | | | | | | |
| HARDIN COUNTY WCID 1 | 910 | 907 | 905 | 903 | 900 | 898 |
| KOUNTZE | 786 | 795 | 803 | 807 | 807 | 807 |
| LUMBERTON MUD | 0 | 0 | 0 | 0 | 0 | 0 |
| NORTH HARDIN WSC | 1,363 | 1,345 | 1,320 | 1,302 | 1,287 | 1,276 |
| SILSBEE | 673 | 686 | 699 | 704 | 698 | 692 |
| SOUR LAKE | 655 | 649 | 646 | 642 | 637 | 633 |
| WEST HARDIN WSC | 536 | 532 | 529 | 526 | 523 | 520 |
| WILDWOOD POA | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 4 | 3 | 3 | 3 | 3 | 3 |
| MANUFACTURING | 6 | 6 | 6 | 6 | 6 | 6 |
| MINING | 0 | 0 | 0 | 0 | 0 | 0 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

# Region I Water User Group (WUG) Needs/Surplus*

| | | | | | | |
|---|---|---|---|---|---|---|
| STEAM ELECTRIC POWER | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | 28 | 28 | 28 | 28 | 28 | 28 |
| IRRIGATION | 0 | 0 | 0 | 0 | 0 | 0 |
| **HARDIN COUNTY - TRINITY BASIN** | | | | | | |
| LAKE LIVINGSTON WSC | 3 | 3 | 4 | 3 | 3 | 2 |
| WEST HARDIN WSC | 1 | 1 | 1 | 1 | 1 | 1 |
| COUNTY-OTHER | 7 | 8 | 8 | 8 | 8 | 8 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| **HENDERSON COUNTY - NECHES BASIN** | | | | | | |
| ATHENS | 0 | 1 | (2) | (4) | (21) | (33) |
| BERRYVILLE | 0 | 0 | (1) | (1) | 0 | (1) |
| BETHEL ASH WSC | 338 | 287 | 249 | 206 | 166 | 130 |
| BROWNSBORO | 0 | 1 | 0 | 0 | 0 | 0 |
| BRUSHY CREEK WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| CHANDLER | 250 | 131 | 31 | (107) | (230) | (349) |
| EDOM WSC | (2) | (3) | (4) | (5) | (7) | (9) |
| FRANKSTON | 7 | 9 | 9 | 11 | 13 | 16 |
| LEAGUEVILLE WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| MOORE STATION WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| MURCHISON | 0 | 0 | 0 | 0 | 0 | 0 |
| R P M WSC | 5 | (7) | (16) | (27) | (38) | (48) |
| VIRGINIA HILL WSC | 98 | 82 | 69 | 47 | 25 | 0 |
| COUNTY-OTHER | (160) | (73) | 2 | 58 | 173 | 314 |
| MINING | (77) | (86) | (77) | (59) | (40) | (28) |
| LIVESTOCK | 2,787 | 2,771 | 2,654 | 2,499 | 1,676 | 1,160 |
| IRRIGATION | (51) | (61) | (76) | (92) | (144) | (174) |
| **HOUSTON COUNTY - NECHES BASIN** | | | | | | |
| GRAPELAND | 162 | 162 | 166 | 168 | 169 | 169 |
| PENNINGTON WSC | 55 | 56 | 58 | 57 | 58 | 58 |
| THE CONSOLIDATED WSC | 444 | 449 | 458 | 462 | 461 | 460 |
| COUNTY-OTHER | 118 | 123 | 127 | 127 | 127 | 127 |
| MANUFACTURING | 17 | 14 | 14 | 14 | 14 | 14 |
| MINING | 0 | 0 | (1) | 0 | 0 | 0 |
| LIVESTOCK | 627 | 586 | 543 | 496 | 445 | 380 |
| IRRIGATION | 139 | 139 | 139 | 139 | 139 | 139 |
| **HOUSTON COUNTY - TRINITY BASIN** | | | | | | |
| CROCKETT | (916) | (918) | (890) | (876) | (873) | (873) |
| GRAPELAND | 248 | 252 | 253 | 254 | 254 | 254 |
| LOVELADY | 72 | 73 | 75 | 76 | 77 | 77 |
| PENNINGTON WSC | 101 | 103 | 103 | 105 | 105 | 105 |
| TDCJ EASTHAM UNIT | (860) | (850) | (841) | (837) | (836) | (836) |
| THE CONSOLIDATED WSC | 480 | 495 | 517 | 528 | 526 | 523 |
| COUNTY-OTHER | 25 | 26 | 25 | 25 | 25 | 25 |
| MANUFACTURING | 157 | 127 | 156 | 181 | 213 | 247 |
| MINING | 0 | 0 | 1 | 0 | 0 | 0 |
| LIVESTOCK | 47 | 52 | 57 | 62 | 67 | 74 |
| IRRIGATION | 623 | 623 | 623 | 623 | 623 | 623 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

# Region I Water User Group (WUG) Needs/Surplus*

| | | | | | | |
|---|---|---|---|---|---|---|
| **JASPER COUNTY - NECHES BASIN** | | | | | | |
| BROOKELAND FWSD | 0 | 0 | 0 | 0 | 0 | 0 |
| JASPER | 2,827 | 2,827 | 2,853 | 2,872 | 2,875 | 2,875 |
| RAYBURN COUNTRY MUD | 0 | 0 | 0 | 0 | 0 | 0 |
| RURAL WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| SOUTH JASPER COUNTY WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| UPPER JASPER COUNTY WATER AUTHORITY | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 508 | 472 | 406 | 369 | 361 | 361 |
| MANUFACTURING | 45,763 | 34,405 | 34,405 | 34,405 | 34,405 | 34,405 |
| MINING | 0 | 0 | 0 | 0 | 0 | 1 |
| LIVESTOCK | (5,907) | (5,907) | (5,907) | (5,907) | (5,907) | (5,907) |
| IRRIGATION | 0 | 0 | 0 | 0 | 0 | 0 |
| **JASPER COUNTY - SABINE BASIN** | | | | | | |
| JASPER COUNTY WCID 1 | 869 | 881 | 885 | 885 | 885 | 885 |
| KIRBYVILLE | 182 | 183 | 189 | 193 | 194 | 194 |
| MAURICEVILLE SUD | 43 | 43 | 41 | 40 | 38 | 38 |
| SOUTH JASPER COUNTY WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| UPPER JASPER COUNTY WATER AUTHORITY | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 338 | 377 | 449 | 490 | 499 | 499 |
| MANUFACTURING | 132 | 99 | 99 | 99 | 99 | 99 |
| MINING | 0 | 0 | 0 | 0 | 0 | 1 |
| LIVESTOCK | (3,297) | (3,297) | (3,297) | (3,297) | (3,297) | (3,297) |
| IRRIGATION | 0 | 0 | 0 | 0 | 0 | 0 |
| **JEFFERSON COUNTY - NECHES BASIN** | | | | | | |
| BEAUMONT | 110 | 111 | (249) | (990) | (1,726) | (2,576) |
| BEVIL OAKS | 1 | 2 | 1 | 1 | 1 | 2 |
| CHINA | 1 | 1 | 1 | 1 | 1 | 1 |
| GROVES | 1 | 1 | 1 | 0 | 1 | 1 |
| JEFFERSON COUNTY WCID 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| MEEKER MWD | 20 | 18 | 13 | 7 | 3 | 1 |
| NEDERLAND | 0 | 0 | 0 | 0 | 0 | 0 |
| PORT ARTHUR | 2 | 2 | 2 | 2 | 2 | 2 |
| PORT NECHES | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 21 | 24 | 20 | (27) | (121) | (223) |
| MANUFACTURING | 16,935 | 51,730 | 59,121 | 66,500 | 73,882 | 81,559 |
| MINING | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | 13 | 13 | 13 | 13 | 13 | 13 |
| IRRIGATION | 8,106 | 8,106 | 8,106 | 8,106 | 8,106 | 8,106 |
| **JEFFERSON COUNTY - NECHES-TRINITY BASIN** | | | | | | |
| BEAUMONT | (110) | (111) | (853) | (2,382) | (3,901) | (5,654) |
| CHINA | 1 | 1 | 0 | 1 | (1) | 0 |
| GROVES | 19 | 18 | 17 | 18 | 17 | 17 |
| JEFFERSON COUNTY WCID 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| MEEKER MWD | 61 | 50 | 38 | 18 | 9 | (1) |
| NEDERLAND | 0 | 0 | 0 | 0 | 0 | 0 |
| PORT ARTHUR | 569 | 568 | 562 | 560 | 560 | 560 |
| PORT NECHES | 0 | 0 | 0 | 0 | 0 | 0 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

## Region I Water User Group (WUG) Needs/Surplus*

| | | | | | | |
|---|---|---|---|---|---|---|
| WEST JEFFERSON COUNTY MWD | 0 | 0 | 1 | 0 | 0 | 1 |
| COUNTY-OTHER | 317 | 366 | 324 | (226) | (1,313) | (2,516) |
| MANUFACTURING | 22,960 | 56,216 | 63,042 | 69,853 | 76,669 | 83,753 |
| MINING | 0 | 0 | 0 | 0 | 0 | 0 |
| STEAM ELECTRIC POWER | (2,391) | (2,391) | (2,391) | (2,391) | (2,391) | (2,391) |
| LIVESTOCK | 156 | 156 | 156 | 156 | 156 | 156 |
| IRRIGATION | 107,699 | 107,699 | 107,699 | 107,699 | 107,699 | 107,699 |
| **NACOGDOCHES COUNTY - NECHES BASIN** | | | | | | |
| APPLEBY WSC | 282 | 218 | 153 | 78 | 0 | 1 |
| CARO WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| CUSHING | 63 | 48 | 32 | 13 | (8) | (30) |
| D & M WSC | 290 | 201 | 108 | 5 | (111) | (234) |
| ETOILE WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| GARRISON | 313 | 288 | 263 | 234 | 202 | 168 |
| LILLY GROVE SUD | 392 | 357 | 321 | 280 | 233 | 184 |
| MELROSE WSC | 398 | 361 | 323 | 279 | 227 | 173 |
| NACOGDOCHES | 0 | 0 | 0 | 0 | 0 | 0 |
| SWIFT WSC | 242 | 205 | 167 | 121 | 68 | 12 |
| WODEN WSC | 430 | 402 | 374 | 338 | 297 | 252 |
| COUNTY-OTHER | 499 | 545 | 600 | 661 | 724 | 791 |
| MANUFACTURING | 10,000 | 10,001 | 10,001 | 10,001 | 10,001 | 10,001 |
| MINING | (5,475) | (2,975) | (118) | 226 | 567 | 818 |
| LIVESTOCK | (6,973) | (7,402) | (7,899) | (8,475) | (9,134) | (10,116) |
| IRRIGATION | 174 | 174 | 174 | 174 | 174 | 174 |
| **NEWTON COUNTY - SABINE BASIN** | | | | | | |
| BROOKELAND FWSD | (36) | (36) | (35) | (35) | (35) | (36) |
| MAURICEVILLE SUD | 41 | 39 | 38 | 36 | 36 | 35 |
| NEWTON | 40 | 50 | 58 | 62 | 63 | 63 |
| SOUTH NEWTON WSC | 154 | 154 | 154 | 154 | 154 | 154 |
| COUNTY-OTHER | 539 | 579 | 614 | 622 | 625 | 625 |
| MANUFACTURING | 516 | 588 | 665 | 735 | 802 | 875 |
| MINING | (115) | (59) | 35 | 105 | 168 | 207 |
| STEAM ELECTRIC POWER | 7,664 | 7,664 | 7,664 | 7,664 | 7,664 | 7,664 |
| LIVESTOCK | 91 | 91 | 91 | 91 | 91 | 91 |
| IRRIGATION | 279 | 279 | 279 | 279 | 279 | 279 |
| **ORANGE COUNTY - NECHES BASIN** | | | | | | |
| BRIDGE CITY | 6 | 8 | 10 | 9 | 8 | 6 |
| KELLY G BREWER | 0 | 0 | 0 | 0 | 0 | 0 |
| MAURICEVILLE SUD | 72 | 72 | 69 | 68 | 68 | 69 |
| ORANGE COUNTY WCID 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| ORANGEFIELD WSC | 13 | 13 | 13 | 13 | 13 | 13 |
| PORT ARTHUR | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 74 | 85 | 53 | 31 | 16 | 3 |
| MANUFACTURING | 142 | 95 | 95 | 95 | 95 | 95 |
| MINING | 10 | 8 | 8 | 8 | 6 | 0 |
| LIVESTOCK | 23 | 23 | 23 | 23 | 23 | 23 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

# Region I Water User Group (WUG) Needs/Surplus*

| | | | | | | |
|---|---|---|---|---|---|---|
| **ORANGE COUNTY - NECHES-TRINITY BASIN** | | | | | | |
| BRIDGE CITY | 4 | 6 | 7 | 6 | 5 | 4 |
| COUNTY-OTHER | 1 | 1 | 1 | 0 | 0 | 0 |
| **ORANGE COUNTY - SABINE BASIN** | | | | | | |
| BRIDGE CITY | 30 | 40 | 50 | 44 | 38 | 31 |
| KELLY G BREWER | 0 | 0 | 0 | 0 | 0 | 0 |
| MAURICEVILLE SUD | 837 | 837 | 824 | 815 | 806 | 799 |
| ORANGE | 0 | 0 | 0 | 0 | 0 | 0 |
| ORANGE COUNTY WCID 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| ORANGEFIELD WSC | 19 | 19 | 20 | 21 | 20 | 21 |
| PINEHURST | 0 | 0 | 0 | 0 | 0 | 0 |
| SOUTH NEWTON WSC | 6 | 6 | 6 | 6 | 6 | 6 |
| COUNTY-OTHER | 87 | 100 | 62 | 36 | 19 | 3 |
| MANUFACTURING | 11,514 | 7,703 | 7,703 | 7,703 | 7,703 | 7,703 |
| MINING | 8 | 5 | 6 | 5 | 2 | 0 |
| STEAM ELECTRIC POWER | 1,493 | 1,493 | 1,493 | 1,493 | 1,493 | 1,493 |
| LIVESTOCK | 48 | 48 | 48 | 48 | 48 | 48 |
| IRRIGATION | (526) | (526) | (526) | (526) | (526) | (526) |
| **PANOLA COUNTY - CYPRESS BASIN** | | | | | | |
| COUNTY-OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| MINING | 2 | 2 | 2 | 2 | 4 | 4 |
| LIVESTOCK | 0 | 0 | 0 | 0 | 0 | 0 |
| **PANOLA COUNTY - SABINE BASIN** | | | | | | |
| BECKVILLE | 445 | 434 | 428 | 421 | 415 | 410 |
| CARTHAGE | 0 | 0 | 0 | 0 | 0 | 1 |
| GILL WSC | 65 | 66 | 68 | 67 | 66 | 65 |
| MINDEN BRACHFIELD WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| PANOLA-BETHANY WSC | 1 | (2) | (6) | (13) | (17) | (21) |
| TATUM | 2 | 2 | 2 | 2 | 3 | 3 |
| COUNTY-OTHER | 205 | 192 | 200 | 187 | 161 | 136 |
| MANUFACTURING | 407 | 26 | 65 | 98 | 165 | 196 |
| MINING | 3,189 | 3,511 | 4,135 | 4,448 | 5,705 | 5,578 |
| LIVESTOCK | (982) | (982) | (982) | (982) | (982) | (982) |
| IRRIGATION | 28 | 28 | 28 | 28 | 28 | 28 |
| **POLK COUNTY - NECHES BASIN** | | | | | | |
| CHESTER WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| CORRIGAN | 0 | 0 | 0 | 0 | 0 | 0 |
| DAMASCUS-STRYKER WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| LAKE LIVINGSTON WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| MOSCOW WSC | 19 | 14 | 11 | 7 | 4 | 2 |
| SODA WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 346 | 369 | 391 | 414 | 440 | 463 |
| MANUFACTURING | 180 | 230 | 317 | 397 | 467 | 543 |
| MINING | 63 | 89 | 114 | 140 | 166 | 177 |
| LIVESTOCK | 460 | 460 | 460 | 460 | 460 | 460 |
| IRRIGATION | 539 | 539 | 539 | 539 | 539 | 539 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

# Region I Water User Group (WUG) Needs/Surplus*

| | | | | | | |
|---|---|---|---|---|---|---|
| **RUSK COUNTY - NECHES BASIN** | | | | | | |
| EBENEZER WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| GASTON WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| GOODSPRINGS WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| HENDERSON | 2,749 | 2,444 | 2,141 | 1,796 | 1,420 | 1,025 |
| JACOBS WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| MINDEN BRACHFIELD WSC | 1 | 1 | 1 | 1 | 1 | 0 |
| MT ENTERPRISE WSC | 1 | 0 | 0 | 1 | 0 | 1 |
| NEW LONDON | 0 | 1 | 0 | 1 | 1 | 1 |
| OVERTON | 14 | 8 | 3 | (4) | (11) | (18) |
| SOUTH RUSK COUNTY WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| WRIGHT CITY WSC | 27 | 23 | 18 | 13 | 6 | 1 |
| COUNTY-OTHER | 1,917 | 1,882 | 1,845 | 1,796 | 1,739 | 1,679 |
| MANUFACTURING | 304 | 326 | 346 | 364 | 391 | 419 |
| MINING | (1,075) | (1,814) | (1,743) | (1,667) | (1,603) | (1,598) |
| STEAM ELECTRIC POWER | (110) | (110) | (110) | (110) | (110) | (110) |
| LIVESTOCK | 36 | 23 | 5 | (12) | (30) | (30) |
| IRRIGATION | 140 | 140 | 140 | 140 | 140 | 140 |
| **RUSK COUNTY - SABINE BASIN** | | | | | | |
| CHALK HILL SUD | 711 | 691 | 668 | 639 | 603 | 565 |
| CROSS ROADS SUD | 386 | 373 | 360 | 338 | 309 | 279 |
| CRYSTAL FARMS WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| ELDERVILLE WSC | 64 | 52 | 38 | 23 | 4 | (17) |
| HENDERSON | 459 | 407 | 354 | 294 | 228 | 160 |
| JACOBS WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| KILGORE | 154 | 428 | 363 | 284 | 190 | 87 |
| MINDEN BRACHFIELD WSC | 1 | 0 | 0 | 0 | 0 | 0 |
| NEW LONDON | 0 | 0 | 0 | 1 | 1 | 1 |
| NEW PROSPECT WSC | 1 | 0 | 1 | 1 | 0 | 1 |
| OVERTON | 110 | 66 | 21 | (31) | (88) | (149) |
| SOUTHERN UTILITIES | 101 | 107 | 112 | 112 | 102 | 97 |
| TATUM | 124 | 94 | 67 | 36 | 9 | 12 |
| WEST GREGG SUD | 11 | 11 | 10 | 7 | 5 | 4 |
| COUNTY-OTHER | 1,372 | 1,338 | 1,304 | 1,257 | 1,202 | 1,145 |
| MANUFACTURING | 12 | 13 | 14 | 14 | 15 | 17 |
| MINING | 0 | (278) | (212) | (142) | (83) | (79) |
| STEAM ELECTRIC POWER | (993) | (993) | (993) | (993) | (993) | (993) |
| LIVESTOCK | (200) | (202) | (206) | (209) | (213) | (213) |
| IRRIGATION | 176 | 176 | 176 | 176 | 176 | 176 |
| **SABINE COUNTY - NECHES BASIN** | | | | | | |
| BROOKELAND FWSD | 0 | 0 | 0 | 0 | 0 | 0 |
| G M WSC | 3 | 3 | 3 | 3 | 3 | 3 |
| PINELAND | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 177 | 177 | 178 | 178 | 178 | 178 |
| MANUFACTURING | 597 | 578 | 578 | 578 | 578 | 578 |
| MINING | 124 | 145 | 171 | 196 | 222 | 240 |
| LIVESTOCK | 62 | 54 | 46 | 36 | 25 | 25 |

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# Region I Water User Group (WUG) Needs/Surplus*

| | | | | | | |
|---|---|---|---|---|---|---|
| **SABINE COUNTY - SABINE BASIN** | | | | | | |
| BROOKELAND FWSD | 0 | 0 | 0 | 0 | 0 | 0 |
| G M WSC | 290 | 290 | 290 | 290 | 290 | 290 |
| HEMPHILL | 438 | 441 | 446 | 448 | 449 | 449 |
| COUNTY-OTHER | 410 | 417 | 422 | 423 | 423 | 423 |
| MINING | 654 | 768 | 904 | 1,036 | 1,168 | 1,262 |
| LIVESTOCK | 541 | 502 | 455 | 402 | 344 | 344 |
| **SAN AUGUSTINE COUNTY - NECHES BASIN** | | | | | | |
| SAN AUGUSTINE | 0 | 9 | 18 | 19 | 19 | 19 |
| SAN AUGUSTINE RURAL WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 532 | 553 | 569 | 578 | 580 | 580 |
| MANUFACTURING | 11 | 11 | 11 | 11 | 11 | 11 |
| MINING | (2,102) | (1,102) | 419 | 718 | 1,014 | 1,236 |
| LIVESTOCK | (1,308) | (1,502) | (1,725) | (1,983) | (2,268) | (2,268) |
| IRRIGATION | 58 | 58 | 58 | 58 | 58 | 58 |
| **SAN AUGUSTINE COUNTY - SABINE BASIN** | | | | | | |
| G M WSC | 28 | 28 | 28 | 28 | 28 | 28 |
| SAN AUGUSTINE RURAL WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 74 | 75 | 75 | 75 | 75 | 75 |
| MINING | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | (88) | (100) | (112) | (128) | (144) | (144) |
| **SHELBY COUNTY - NECHES BASIN** | | | | | | |
| CHOICE WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| SAND HILLS WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| TIMPSON | 1 | 0 | 0 | 1 | 1 | 0 |
| COUNTY-OTHER | 316 | 315 | 313 | 312 | 310 | 309 |
| MINING | 12 | 25 | 64 | 209 | 72 | 178 |
| LIVESTOCK | (1,824) | (2,257) | (2,785) | (3,430) | (4,215) | (4,215) |
| IRRIGATION | 13 | 13 | 13 | 13 | 13 | 13 |
| **SHELBY COUNTY - SABINE BASIN** | | | | | | |
| CENTER | 286 | (111) | (212) | (317) | (424) | (353) |
| CHOICE WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| EAST LAMAR WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| FIVE WAY WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| FLAT FORK WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| HUXLEY | 0 | 0 | 0 | 0 | 0 | 0 |
| JOAQUIN | 3 | 1 | (1) | (2) | (5) | (7) |
| MCCLELLAND WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| SAND HILLS WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| TENAHA | 215 | 205 | 195 | 184 | 171 | 160 |
| TIMPSON | 386 | 380 | 373 | 365 | 356 | 348 |
| COUNTY-OTHER | 216 | 213 | 209 | 202 | 197 | 192 |
| MANUFACTURING | 1,586 | 1,991 | 2,004 | 2,015 | 2,029 | 2,044 |
| MINING | 30 | 62 | 165 | 536 | 186 | 460 |
| LIVESTOCK | (6,136) | (7,973) | (10,208) | (12,935) | (16,260) | (16,260) |
| IRRIGATION | 75 | 75 | 75 | 75 | 75 | 75 |

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# Region I Water User Group (WUG) Needs/Surplus*

| | | | | | | |
|---|---|---|---|---|---|---|
| **SMITH COUNTY - NECHES BASIN** | | | | | | |
| ALGONQUIN WATER RESOURCES OF TEXAS | 144 | 137 | 131 | 124 | 116 | 108 |
| ARP | 0 | 0 | 0 | 0 | 0 | 0 |
| BEN WHEELER WSC | 1 | 2 | 2 | 1 | 1 | 1 |
| BULLARD | (125) | (316) | (510) | (723) | (940) | (1,166) |
| CARROLL WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| CRYSTAL SYSTEMS TEXAS | (163) | (287) | (432) | (605) | (798) | (973) |
| DEAN WSC | 2 | 2 | 2 | 3 | 3 | 3 |
| EMERALD BAY MUD | 0 | 0 | 0 | 0 | 0 | 0 |
| JACKSON WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| LINDALE | (52) | (180) | (309) | (451) | (596) | (746) |
| LINDALE RURAL WSC | (77) | (79) | (82) | (88) | (94) | (101) |
| OVERTON | 1 | 1 | 1 | 1 | 1 | 1 |
| R P M WSC | 2 | (2) | (5) | (11) | (13) | (17) |
| SOUTHERN UTILITIES | (1,335) | (1,468) | (1,627) | (1,749) | (1,333) | (1,017) |
| TROUP | 0 | 0 | 0 | 0 | 0 | 0 |
| TYLER | 17 | 18 | 20 | 21 | 23 | 24 |
| WALNUT GROVE WSC | 853 | 704 | 547 | 366 | 172 | (29) |
| WHITEHOUSE | 0 | 0 | 0 | 0 | 0 | 0 |
| WRIGHT CITY WSC | 131 | 108 | 84 | 55 | 23 | 0 |
| COUNTY-OTHER | 348 | 390 | 435 | 488 | 546 | 607 |
| MANUFACTURING | 700 | 594 | 869 | 1,102 | 1,422 | 1,768 |
| MINING | (108) | (113) | (114) | (83) | (54) | (32) |
| LIVESTOCK | 535 | 535 | 535 | 535 | 535 | 535 |
| IRRIGATION | 1,038 | 1,070 | 1,102 | 1,135 | 1,170 | 1,211 |
| **TRINITY COUNTY - NECHES BASIN** | | | | | | |
| CENTERVILLE WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| GROVETON | 254 | 254 | 254 | 256 | 256 | 254 |
| PENNINGTON WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| COUNTY-OTHER | 129 | 127 | 126 | 130 | 123 | 116 |
| MINING | 0 | 0 | 0 | 0 | 0 | 0 |
| LIVESTOCK | 276 | 276 | 276 | 276 | 276 | 276 |
| IRRIGATION | 25 | 25 | 25 | 25 | 25 | 25 |
| **TYLER COUNTY - NECHES BASIN** | | | | | | |
| CHESTER WSC | 204 | 204 | 204 | 203 | 201 | 200 |
| COLMESNEIL | 103 | 108 | 112 | 114 | 114 | 114 |
| CYPRESS CREEK WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| LAKE LIVINGSTON WSC | 3 | 3 | 3 | 2 | 2 | 2 |
| MOSCOW WSC | 0 | 0 | 0 | 0 | 0 | 0 |
| TYLER COUNTY WSC | (212) | (190) | (169) | (158) | (156) | (156) |
| WARREN WSC | 263 | 268 | 273 | 275 | 276 | 276 |
| WILDWOOD POA | 0 | 0 | 0 | 0 | 0 | 0 |
| WOODVILLE | 4,680 | 4,703 | 4,725 | 4,737 | 4,739 | 4,739 |
| COUNTY-OTHER | 701 | 684 | 668 | 661 | 662 | 665 |
| MINING | 77 | 39 | 87 | 134 | 182 | 208 |
| STEAM ELECTRIC POWER | 829 | 829 | 829 | 829 | 829 | 829 |
| LIVESTOCK | 65 | 65 | 65 | 65 | 65 | 65 |

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## Region I Water User Group (WUG) Needs/Surplus*

| | | | | | | |
|---|---|---|---|---|---|---|
| IRRIGATION | 293 | 293 | 293 | 293 | 293 | 293 |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Needs/Surplus report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Surplus volumes are shown as positive values, and needs are shown as negative values in parentheses.

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## Attachment 7

## TWDB DB22 Report #9. Source Water Balance

# Region I Source Water Balance (Availability - WUG Supply)

| GROUNDWATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| CARRIZO-WILCOX AQUIFER | ANDERSON | NECHES | FRESH | 17,861 | 17,774 | 17,795 | 17,860 | 17,889 | 17,902 |
| CARRIZO-WILCOX AQUIFER | ANDERSON | TRINITY | FRESH | 1,145 | 1,063 | 1,074 | 1,109 | 1,116 | 1,116 |
| CARRIZO-WILCOX AQUIFER | ANGELINA | NECHES | FRESH | 2,494 | 2,485 | 2,475 | 2,454 | 2,429 | 2,405 |
| CARRIZO-WILCOX AQUIFER | CHEROKEE | NECHES | FRESH | 12,902 | 12,830 | 12,751 | 12,643 | 12,522 | 11,804 |
| CARRIZO-WILCOX AQUIFER | HENDERSON | NECHES | FRESH | 2,984 | 3,013 | 3,026 | 2,935 | 2,760 | 2,547 |
| CARRIZO-WILCOX AQUIFER | HOUSTON | NECHES | FRESH | 21,086 | 21,086 | 21,086 | 21,086 | 21,086 | 21,086 |
| CARRIZO-WILCOX AQUIFER | HOUSTON | TRINITY | FRESH | 2,083 | 1,976 | 1,861 | 1,736 | 1,601 | 1,428 |
| CARRIZO-WILCOX AQUIFER | NACOGDOCHES | NECHES | FRESH | 10,396 | 10,249 | 10,074 | 9,880 | 9,663 | 9,346 |
| CARRIZO-WILCOX AQUIFER | PANOLA | CYPRESS | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| CARRIZO-WILCOX AQUIFER | PANOLA | SABINE | FRESH | 2,976 | 2,818 | 2,817 | 2,817 | 2,666 | 2,666 |
| CARRIZO-WILCOX AQUIFER | RUSK | NECHES | FRESH | 4,513 | 4,381 | 4,247 | 4,072 | 3,890 | 3,696 |
| CARRIZO-WILCOX AQUIFER | RUSK | SABINE | FRESH | 2,213 | 2,090 | 1,958 | 1,799 | 1,617 | 1,401 |
| CARRIZO-WILCOX AQUIFER | SABINE | NECHES | FRESH | 338 | 338 | 338 | 338 | 338 | 338 |
| CARRIZO-WILCOX AQUIFER | SABINE | SABINE | FRESH | 2,680 | 2,684 | 2,686 | 2,687 | 2,687 | 2,687 |
| CARRIZO-WILCOX AQUIFER | SAN AUGUSTINE | NECHES | FRESH | 481 | 487 | 491 | 493 | 493 | 493 |
| CARRIZO-WILCOX AQUIFER | SAN AUGUSTINE | SABINE | FRESH | 175 | 166 | 155 | 143 | 129 | 129 |
| CARRIZO-WILCOX AQUIFER | SHELBY | NECHES | FRESH | 718 | 429 | 292 | 158 | 158 | 158 |
| CARRIZO-WILCOX AQUIFER | SHELBY | SABINE | FRESH | 3,026 | 2,738 | 2,620 | 2,012 | 1,391 | 1,021 |
| CARRIZO-WILCOX AQUIFER | SMITH | NECHES | FRESH | 7,057 | 6,652 | 6,196 | 5,443 | 3,812 | 2,407 |
| CARRIZO-WILCOX AQUIFER | TRINITY | NECHES | FRESH | 269 | 269 | 269 | 269 | 269 | 269 |
| GULF COAST AQUIFER SYSTEM | HARDIN | NECHES | FRESH | 13,406 | 13,216 | 13,102 | 12,993 | 12,883 | 12,790 |
| GULF COAST AQUIFER SYSTEM | HARDIN | TRINITY | FRESH | 104 | 103 | 102 | 102 | 101 | 101 |
| GULF COAST AQUIFER SYSTEM | JASPER | NECHES | FRESH | 144 | 188 | 244 | 285 | 305 | 310 |
| GULF COAST AQUIFER SYSTEM | JASPER | SABINE | FRESH | 25,834 | 25,862 | 25,893 | 25,915 | 25,932 | 25,939 |
| GULF COAST AQUIFER SYSTEM | JEFFERSON | NECHES | FRESH | 241 | 224 | 204 | 163 | 130 | 92 |
| GULF COAST AQUIFER SYSTEM | JEFFERSON | NECHES-TRINITY | FRESH | 210 | 200 | 186 | 161 | 120 | 68 |
| GULF COAST AQUIFER SYSTEM | NEWTON | NECHES | FRESH | 176 | 176 | 176 | 176 | 176 | 176 |
| GULF COAST AQUIFER SYSTEM | NEWTON | SABINE | FRESH | 30,723 | 30,650 | 30,574 | 30,506 | 30,439 | 30,367 |
| GULF COAST AQUIFER SYSTEM | ORANGE | NECHES | FRESH | 2,136 | 2,131 | 2,127 | 2,124 | 2,121 | 2,118 |
| GULF COAST AQUIFER SYSTEM | ORANGE | NECHES-TRINITY | FRESH | 4 | 3 | 4 | 4 | 4 | 4 |
| GULF COAST AQUIFER SYSTEM | ORANGE | SABINE | FRESH | 4,536 | 4,486 | 4,464 | 4,410 | 4,344 | 4,286 |
| GULF COAST AQUIFER SYSTEM | POLK | NECHES | FRESH | 12,664 | 12,503 | 12,353 | 12,210 | 12,079 | 11,949 |
| GULF COAST AQUIFER SYSTEM | SABINE | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| GULF COAST AQUIFER SYSTEM | TYLER | NECHES | FRESH | 32,658 | 32,703 | 32,747 | 32,770 | 32,773 | 32,771 |
| OTHER AQUIFER | ANDERSON | TRINITY | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER AQUIFER | ANGELINA | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER AQUIFER | CHEROKEE | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER AQUIFER | HENDERSON | NECHES | FRESH | 5 | 5 | 5 | 5 | 5 | 5 |
| OTHER AQUIFER | HENDERSON | TRINITY | FRESH | 141 | 141 | 141 | 141 | 141 | 141 |
| OTHER AQUIFER | HOUSTON | NECHES | FRESH | 196 | 220 | 244 | 267 | 291 | 301 |
| OTHER AQUIFER | HOUSTON | TRINITY | FRESH | 518 | 562 | 605 | 650 | 694 | 713 |
| OTHER AQUIFER | NACOGDOCHES | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER AQUIFER | POLK | NECHES | FRESH | 348 | 331 | 319 | 303 | 291 | 280 |
| OTHER AQUIFER | RUSK | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER AQUIFER | RUSK | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

# Region I Source Water Balance (Availability - WUG Supply)

| GROUNDWATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| OTHER AQUIFER | SABINE | SABINE | FRESH | 99 | 99 | 99 | 99 | 99 | 99 |
| OTHER AQUIFER | SAN AUGUSTINE | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHER AQUIFER | SMITH | NECHES | FRESH | 687 | 687 | 687 | 687 | 687 | 687 |
| OTHER AQUIFER | TRINITY | NECHES | FRESH | 700 | 700 | 700 | 700 | 700 | 700 |
| QUEEN CITY AQUIFER | ANDERSON | NECHES | FRESH | 10,474 | 10,474 | 10,474 | 10,474 | 10,474 | 10,474 |
| QUEEN CITY AQUIFER | ANDERSON | TRINITY | FRESH | 6,168 | 6,168 | 6,168 | 6,168 | 6,168 | 6,168 |
| QUEEN CITY AQUIFER | ANGELINA | NECHES | FRESH | 1,093 | 1,093 | 1,093 | 1,093 | 1,093 | 1,093 |
| QUEEN CITY AQUIFER | CHEROKEE | NECHES | FRESH | 22,152 | 22,152 | 22,152 | 22,152 | 21,980 | 21,807 |
| QUEEN CITY AQUIFER | HENDERSON | NECHES | FRESH | 12,067 | 12,067 | 12,067 | 12,067 | 12,067 | 12,067 |
| QUEEN CITY AQUIFER | HOUSTON | NECHES | FRESH | 2,029 | 2,029 | 2,029 | 2,029 | 2,029 | 2,029 |
| QUEEN CITY AQUIFER | HOUSTON | TRINITY | FRESH | 195 | 195 | 195 | 195 | 195 | 195 |
| QUEEN CITY AQUIFER | NACOGDOCHES | NECHES | FRESH | 2,680 | 2,680 | 2,680 | 2,680 | 2,680 | 2,680 |
| QUEEN CITY AQUIFER | RUSK | NECHES | FRESH | 40 | 40 | 40 | 40 | 40 | 40 |
| QUEEN CITY AQUIFER | RUSK | SABINE | FRESH | 18 | 18 | 18 | 18 | 18 | 18 |
| QUEEN CITY AQUIFER | SMITH | NECHES | FRESH | 29,274 | 29,056 | 28,835 | 28,593 | 28,339 | 27,852 |
| QUEEN CITY AQUIFER | TRINITY | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SPARTA AQUIFER | ANDERSON | NECHES | FRESH | 181 | 181 | 181 | 181 | 181 | 181 |
| SPARTA AQUIFER | ANDERSON | TRINITY | FRESH | 144 | 144 | 144 | 144 | 144 | 144 |
| SPARTA AQUIFER | ANGELINA | NECHES | FRESH | 183 | 183 | 183 | 183 | 183 | 183 |
| SPARTA AQUIFER | CHEROKEE | NECHES | FRESH | 202 | 202 | 202 | 202 | 202 | 202 |
| SPARTA AQUIFER | HOUSTON | NECHES | FRESH | 418 | 418 | 418 | 418 | 418 | 418 |
| SPARTA AQUIFER | HOUSTON | TRINITY | FRESH | 877 | 877 | 877 | 877 | 877 | 877 |
| SPARTA AQUIFER | NACOGDOCHES | NECHES | FRESH | 209 | 209 | 209 | 209 | 209 | 209 |
| SPARTA AQUIFER | SABINE | NECHES | FRESH | 34 | 34 | 34 | 34 | 34 | 34 |
| SPARTA AQUIFER | SABINE | SABINE | FRESH | 157 | 157 | 157 | 157 | 157 | 157 |
| SPARTA AQUIFER | SAN AUGUSTINE | NECHES | FRESH | 72 | 72 | 72 | 72 | 72 | 72 |
| SPARTA AQUIFER | SAN AUGUSTINE | SABINE | FRESH | 3 | 3 | 3 | 3 | 3 | 3 |
| SPARTA AQUIFER | TRINITY | NECHES | FRESH | 154 | 154 | 154 | 154 | 154 | 154 |
| YEGUA-JACKSON AQUIFER | ANGELINA | NECHES | FRESH | 12,174 | 12,172 | 12,170 | 12,168 | 11,781 | 11,778 |
| YEGUA-JACKSON AQUIFER | HOUSTON | NECHES | FRESH | 1,324 | 1,324 | 1,324 | 1,324 | 1,324 | 1,324 |
| YEGUA-JACKSON AQUIFER | HOUSTON | TRINITY | FRESH | 3,199 | 3,199 | 3,199 | 3,199 | 3,199 | 3,199 |
| YEGUA-JACKSON AQUIFER | NACOGDOCHES | NECHES | FRESH | 209 | 209 | 209 | 209 | 209 | 209 |
| YEGUA-JACKSON AQUIFER | POLK | NECHES | FRESH | 354 | 354 | 354 | 354 | 354 | 354 |
| YEGUA-JACKSON AQUIFER | SABINE | NECHES | FRESH | 3,017 | 3,017 | 3,017 | 3,017 | 3,017 | 3,017 |
| YEGUA-JACKSON AQUIFER | SABINE | SABINE | FRESH | 565 | 565 | 565 | 565 | 565 | 565 |
| YEGUA-JACKSON AQUIFER | SAN AUGUSTINE | NECHES | FRESH | 1,871 | 1,871 | 1,871 | 1,871 | 1,871 | 1,871 |
| YEGUA-JACKSON AQUIFER | SAN AUGUSTINE | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| YEGUA-JACKSON AQUIFER | TRINITY | NECHES | FRESH | 203 | 196 | 199 | 206 | 200 | 193 |
| YEGUA-JACKSON AQUIFER | TYLER | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | **GROUNDWATER TOTAL SOURCE WATER BALANCE** | **332,667** | **330,231** | **328,480** | **325,661** | **321,068** | **316,363** |

| REUSE SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| DIRECT REUSE | ORANGE | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| DIRECT REUSE | SABINE | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

# Region I Source Water Balance (Availability - WUG Supply)

| REUSE SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| DIRECT REUSE | SHELBY | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| INDIRECT REUSE | JEFFERSON | NECHES-TRINITY | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | **REUSE TOTAL SOURCE WATER BALANCE** | **0** | **0** | **0** | **0** | **0** | **0** |

| SURFACE WATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| ATHENS LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| BELLWOOD LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 596 | 596 | 596 | 596 | 596 | 596 |
| CENTER LAKE/RESERVOIR | RESERVOIR | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| CHEROKEE LAKE/RESERVOIR | RESERVOIR | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| CYPRESS LIVESTOCK LOCAL SUPPLY | PANOLA | CYPRESS | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| HOUSTON COUNTY LAKE/RESERVOIR | RESERVOIR | TRINITY | FRESH | 2,676 | 2,571 | 2,466 | 2,361 | 2,256 | 2,151 |
| JACKSONVILLE LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 1,027 | 1,027 | 1,027 | 1,027 | 1,027 | 1,027 |
| KURTH LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| LAKE NACONICHE/RESERVOIR | RESERVOIR | NECHES | FRESH | 4,500 | 4,500 | 4,500 | 4,500 | 4,500 | 4,500 |
| MARTIN LAKE/RESERVOIR | RESERVOIR | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| MURVAUL LAKE/RESERVOIR | RESERVOIR | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NACOGDOCHES LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | ANDERSON | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | ANGELINA | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | CHEROKEE | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | HARDIN | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | HENDERSON | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | HOUSTON | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | JASPER | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | NACOGDOCHES | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | ORANGE | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | POLK | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | RUSK | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | SABINE | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | SAN AUGUSTINE | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | SHELBY | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | SMITH | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | TRINITY | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES LIVESTOCK LOCAL SUPPLY | TYLER | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES OTHER LOCAL SUPPLY | CHEROKEE | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES OTHER LOCAL SUPPLY | JEFFERSON | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES OTHER LOCAL SUPPLY | NACOGDOCHES | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES OTHER LOCAL SUPPLY | POLK | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES OTHER LOCAL SUPPLY | TYLER | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES RUN-OF-RIVER | ANDERSON | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES RUN-OF-RIVER | ANGELINA | NECHES | FRESH | 14 | 14 | 14 | 14 | 14 | 14 |
| NECHES RUN-OF-RIVER | CHEROKEE | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES RUN-OF-RIVER | HARDIN | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES RUN-OF-RIVER | HOUSTON | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

# Region I Source Water Balance (Availability - WUG Supply)

| SURFACE WATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| NECHES RUN-OF-RIVER | JASPER | NECHES | FRESH | 6 | 6 | 6 | 6 | 6 | 6 |
| NECHES RUN-OF-RIVER | JEFFERSON | NECHES | BRACKISH | 752,152 | 752,152 | 752,152 | 752,152 | 752,152 | 752,152 |
| NECHES RUN-OF-RIVER | JEFFERSON | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES RUN-OF-RIVER | NACOGDOCHES | NECHES | FRESH | 2 | 2 | 2 | 2 | 2 | 2 |
| NECHES RUN-OF-RIVER | ORANGE | NECHES | BRACKISH | 17,310 | 17,310 | 17,310 | 17,310 | 17,310 | 17,310 |
| NECHES RUN-OF-RIVER | RUSK | NECHES | FRESH | 1 | 1 | 1 | 1 | 1 | 1 |
| NECHES RUN-OF-RIVER | SABINE | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES RUN-OF-RIVER | SHELBY | NECHES | FRESH | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| NECHES RUN-OF-RIVER | SMITH | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES RUN-OF-RIVER | TRINITY | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES RUN-OF-RIVER | TYLER | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES-TRINITY LIVESTOCK LOCAL SUPPLY | JEFFERSON | NECHES-TRINITY | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| NECHES-TRINITY OTHER LOCAL SUPPLY | JEFFERSON | NECHES-TRINITY | FRESH | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| NECHES-TRINITY RUN-OF-RIVER | JEFFERSON | NECHES-TRINITY | FRESH | 586 | 586 | 586 | 586 | 586 | 586 |
| PALESTINE LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| PINKSTON LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| RUSK CITY LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE LIVESTOCK LOCAL SUPPLY | JASPER | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE LIVESTOCK LOCAL SUPPLY | NEWTON | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE LIVESTOCK LOCAL SUPPLY | ORANGE | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE LIVESTOCK LOCAL SUPPLY | PANOLA | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE LIVESTOCK LOCAL SUPPLY | RUSK | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE LIVESTOCK LOCAL SUPPLY | SABINE | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE LIVESTOCK LOCAL SUPPLY | SAN AUGUSTINE | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE LIVESTOCK LOCAL SUPPLY | SHELBY | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE OTHER LOCAL SUPPLY | NEWTON | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE OTHER LOCAL SUPPLY | ORANGE | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE OTHER LOCAL SUPPLY | RUSK | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE RUN-OF-RIVER | NEWTON | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE RUN-OF-RIVER | ORANGE | SABINE | BRACKISH | 267,000 | 267,000 | 267,000 | 267,000 | 267,000 | 267,000 |
| SABINE RUN-OF-RIVER | ORANGE | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SABINE RUN-OF-RIVER | PANOLA | SABINE | FRESH | 140 | 140 | 140 | 140 | 140 | 140 |
| SABINE RUN-OF-RIVER | RUSK | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | RESERVOIR | NECHES | FRESH | 28,000 | 56,000 | 56,000 | 56,000 | 56,000 | 56,000 |
| SAN AUGUSTINE LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| STRIKER LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 0 | 0 | 0 | 1,435 | 665 | 0 |
| TIMPSON LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| TOLEDO BEND LAKE/RESERVOIR | RESERVOIR | SABINE | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| TOLEDO BEND LAKE/RESERVOIR | RESERVOIR | SABINE-LOUISIANA | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| TRINITY LIVESTOCK LOCAL SUPPLY | ANDERSON | TRINITY | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| TRINITY LIVESTOCK LOCAL SUPPLY | HOUSTON | TRINITY | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |
| TRINITY RUN-OF-RIVER | ANDERSON | TRINITY | FRESH | 230 | 230 | 230 | 230 | 230 | 230 |
| TRINITY RUN-OF-RIVER | HOUSTON | TRINITY | FRESH | 0 | 0 | 0 | 0 | 0 | 0 |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

# Region I Source Water Balance (Availability - WUG Supply)

| SURFACE WATER SOURCE TYPE | | | | SOURCE WATER BALANCE (ACRE-FEET PER YEAR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SOURCE NAME | COUNTY | BASIN | SALINITY* | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| TYLER LAKE/RESERVOIR | RESERVOIR | NECHES | FRESH | 15,773 | 15,609 | 15,445 | 15,281 | 15,117 | 14,953 |
| **SURFACE WATER TOTAL SOURCE WATER BALANCE** | | | | **1,092,013** | **1,119,744** | **1,119,475** | **1,120,641** | **1,119,602** | **1,118,668** |

| | | | | | | |
|---|---|---|---|---|---|---|
| **REGION I TOTAL SOURCE WATER BALANCE** | **1,424,680** | **1,449,975** | **1,447,955** | **1,446,302** | **1,440,670** | **1,435,031** |

*Salinity field indicates whether the source availability is considered 'fresh' (less than 1,000 mg/L), 'brackish' (1,000 to 10,000 mg/L), 'saline' (10,001 mg/L to 34,999 mg/L), or 'seawater' (35,000 mg/L or greater). Sources can also be labeled as 'fresh/brackish' or 'brackish/saline', if a combination of the salinity types is appropriate.

## Attachment 8

## TWDB DB22 Report #10a. WUG Data Comparison to 2016 RWP

# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| **ANDERSON COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 4,080 | 999 | -75.5% | 3,979 | 999 | -74.9% |
| PROJECTED DEMAND TOTAL | 3,772 | 907 | -76.0% | 3,671 | 897 | -75.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ANDERSON COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,829 | 1,794 | -1.9% | 1,829 | 1,794 | -1.9% |
| PROJECTED DEMAND TOTAL | 462 | 657 | 42.2% | 462 | 657 | 42.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ANDERSON COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,423 | 1,423 | 0.0% | 1,423 | 1,423 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,402 | 1,026 | -26.8% | 1,402 | 1,026 | -26.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ANDERSON COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 30 | 0 | -100.0% | 48 | 0 | -100.0% |
| PROJECTED DEMAND TOTAL | 30 | 0 | -100.0% | 48 | 0 | -100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ANDERSON COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 193 | 193 | 0.0% | 164 | 164 | 0.0% |
| PROJECTED DEMAND TOTAL | 140 | 140 | 0.0% | 75 | 75 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ANDERSON COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 7,860 | 13,918 | 77.1% | 7,835 | 13,904 | 77.5% |
| PROJECTED DEMAND TOTAL | 6,704 | 12,290 | 83.3% | 6,652 | 12,272 | 84.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ANDERSON COUNTY \| STEAM ELECTRIC POWER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 1,408 | 100.0% | 0 | 1,408 | 100.0% |
| PROJECTED DEMAND TOTAL | 11,306 | 1,408 | -87.5% | 25,968 | 1,408 | -94.6% |
| WATER SUPPLY NEEDS TOTAL | 11,306 | 0 | -100.0% | 25,968 | 0 | -100.0% |
| **ANGELINA COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,358 | 2,358 | 0.0% | 2,358 | 2,358 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,961 | 641 | -67.3% | 2,289 | 746 | -67.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ANGELINA COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 812 | 812 | 0.0% | 812 | 812 | 0.0% |
| PROJECTED DEMAND TOTAL | 481 | 779 | 62.0% | 481 | 779 | 62.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ANGELINA COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 737 | 1,032 | 40.0% | 737 | 1,032 | 40.0% |
| PROJECTED DEMAND TOTAL | 648 | 1,028 | 58.6% | 648 | 1,028 | 58.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ANGELINA COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 4,527 | 4,527 | 0.0% | 6,105 | 6,105 | 0.0% |
| PROJECTED DEMAND TOTAL | 15,249 | 3,658 | -76.0% | 23,142 | 3,878 | -83.2% |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Before aggregating the difference between supplies and demands to the WUG county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 10,722 | 0 | -100.0% | 17,037 | 0 | -100.0% |
| **ANGELINA COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 13 | 13 | 0.0% | 13 | 13 | 0.0% |
| PROJECTED DEMAND TOTAL | 486 | 486 | 0.0% | 180 | 180 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 473 | 473 | 0.0% | 167 | 167 | 0.0% |
| **ANGELINA COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 15,470 | 16,279 | 5.2% | 16,763 | 17,796 | 6.2% |
| PROJECTED DEMAND TOTAL | 9,626 | 11,041 | 14.7% | 11,490 | 13,177 | 14.7% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ANGELINA COUNTY \| STEAM ELECTRIC POWER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 16,802 | 16,802 | 0.0% | 16,802 | 16,802 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,000 | 3,520 | 252.0% | 1,000 | 3,520 | 252.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **CHEROKEE COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,814 | 1,814 | 0.0% | 1,937 | 1,937 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,139 | 238 | -79.1% | 1,633 | 380 | -76.7% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **CHEROKEE COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 436 | 472 | 8.3% | 420 | 456 | 8.6% |
| PROJECTED DEMAND TOTAL | 355 | 451 | 27.0% | 355 | 451 | 27.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **CHEROKEE COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,813 | 1,883 | 3.9% | 1,813 | 1,883 | 3.9% |
| PROJECTED DEMAND TOTAL | 1,681 | 1,874 | 11.5% | 1,681 | 1,874 | 11.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **CHEROKEE COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 424 | 424 | 0.0% | 582 | 582 | 0.0% |
| PROJECTED DEMAND TOTAL | 413 | 115 | -72.2% | 571 | 129 | -77.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **CHEROKEE COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 57 | 57 | 0.0% | 57 | 57 | 0.0% |
| PROJECTED DEMAND TOTAL | 295 | 295 | 0.0% | 97 | 97 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 238 | 238 | 0.0% | 40 | 40 | 0.0% |
| **CHEROKEE COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 8,225 | 9,190 | 11.7% | 10,224 | 11,647 | 13.9% |
| PROJECTED DEMAND TOTAL | 6,905 | 8,093 | 17.2% | 10,032 | 11,715 | 16.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 276 | 100.0% | 215 | 569 | 164.7% |
| **CHEROKEE COUNTY \| STEAM ELECTRIC POWER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 5,000 | 5,000 | 0.0% | 5,000 | 5,000 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,790 | 3,211 | 79.4% | 3,835 | 3,211 | -16.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HARDIN COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,647 | 721 | -56.2% | 1,826 | 708 | -61.2% |
| PROJECTED DEMAND TOTAL | 1,636 | 710 | -56.6% | 1,815 | 697 | -61.6% |

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# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HARDIN COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3,414 | 989 | -71.0% | 3,712 | 989 | -73.4% |
| PROJECTED DEMAND TOTAL | 3,414 | 989 | -71.0% | 3,712 | 989 | -73.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HARDIN COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 226 | 226 | 0.0% | 226 | 226 | 0.0% |
| PROJECTED DEMAND TOTAL | 163 | 198 | 21.5% | 163 | 198 | 21.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HARDIN COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 294 | 46 | -84.4% | 445 | 51 | -88.5% |
| PROJECTED DEMAND TOTAL | 288 | 40 | -86.1% | 439 | 45 | -89.7% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HARDIN COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 12 | 12 | 0.0% | 12 | 12 | 0.0% |
| PROJECTED DEMAND TOTAL | 12 | 12 | 0.0% | 12 | 12 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HARDIN COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 12,321 | 10,090 | -18.1% | 12,311 | 10,704 | -13.1% |
| PROJECTED DEMAND TOTAL | 4,692 | 5,163 | 10.0% | 5,431 | 5,875 | 8.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HARDIN COUNTY \| STEAM ELECTRIC POWER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 1 | 100.0% | 0 | 1 | 100.0% |
| PROJECTED DEMAND TOTAL | 0 | 1 | 100.0% | 0 | 1 | 100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HENDERSON COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,583 | 540 | -65.9% | 1,357 | 540 | -60.2% |
| PROJECTED DEMAND TOTAL | 1,043 | 700 | -32.9% | 817 | 226 | -72.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 160 | 100.0% | 0 | 0 | 0.0% |
| **HENDERSON COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 772 | 252 | -67.4% | 662 | 129 | -80.5% |
| PROJECTED DEMAND TOTAL | 384 | 303 | -21.1% | 384 | 303 | -21.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 51 | 100.0% | 0 | 174 | 100.0% |
| **HENDERSON COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,865 | 3,793 | 32.4% | 2,018 | 2,166 | 7.3% |
| PROJECTED DEMAND TOTAL | 1,253 | 1,006 | -19.7% | 1,253 | 1,006 | -19.7% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HENDERSON COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 78 | 0 | -100.0% | 96 | 0 | -100.0% |
| PROJECTED DEMAND TOTAL | 54 | 0 | -100.0% | 95 | 0 | -100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HENDERSON COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 119 | 0 | -100.0% | 119 | 0 | -100.0% |
| PROJECTED DEMAND TOTAL | 77 | 77 | 0.0% | 28 | 28 | 0.0% |

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# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 0 | 77 | 100.0% | 0 | 28 | 100.0% |
| **HENDERSON COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,454 | 2,872 | 17.0% | 2,674 | 3,433 | 28.4% |
| PROJECTED DEMAND TOTAL | 1,746 | 2,176 | 24.6% | 2,942 | 3,727 | 26.7% |
| WATER SUPPLY NEEDS TOTAL | 5 | 2 | -60.0% | 408 | 440 | 7.8% |
| **HOUSTON COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 375 | 294 | -21.6% | 365 | 293 | -19.7% |
| PROJECTED DEMAND TOTAL | 184 | 151 | -17.9% | 169 | 141 | -16.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HOUSTON COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,239 | 2,899 | 29.5% | 2,239 | 2,899 | 29.5% |
| PROJECTED DEMAND TOTAL | 2,989 | 2,137 | -28.5% | 4,578 | 2,137 | -53.3% |
| WATER SUPPLY NEEDS TOTAL | 756 | 0 | -100.0% | 2,339 | 0 | -100.0% |
| **HOUSTON COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,238 | 2,238 | 0.0% | 2,893 | 2,893 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,630 | 1,564 | -4.0% | 2,542 | 2,439 | -4.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HOUSTON COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 343 | 343 | 0.0% | 493 | 493 | 0.0% |
| PROJECTED DEMAND TOTAL | 307 | 169 | -45.0% | 460 | 232 | -49.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HOUSTON COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 322 | 322 | 0.0% | 22 | 22 | 0.0% |
| PROJECTED DEMAND TOTAL | 322 | 322 | 0.0% | 22 | 22 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **HOUSTON COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 5,896 | 3,799 | -35.6% | 5,757 | 3,732 | -35.2% |
| PROJECTED DEMAND TOTAL | 3,190 | 4,013 | 25.8% | 2,976 | 3,795 | 27.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 1,776 | 100.0% | 0 | 1,709 | 100.0% |
| **JASPER COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,659 | 2,544 | -4.3% | 2,664 | 2,443 | -8.3% |
| PROJECTED DEMAND TOTAL | 2,467 | 1,698 | -31.2% | 2,302 | 1,583 | -31.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **JASPER COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 127 | 151 | 18.9% | 127 | 151 | 18.9% |
| PROJECTED DEMAND TOTAL | 36 | 151 | 319.4% | 36 | 151 | 319.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **JASPER COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 796 | 796 | 0.0% | 796 | 796 | 0.0% |
| PROJECTED DEMAND TOTAL | 362 | 10,000 | 2662.4% | 362 | 10,000 | 2662.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 9,204 | 100.0% | 0 | 9,204 | 100.0% |
| **JASPER COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 91,936 | 91,868 | -0.1% | 91,936 | 91,868 | -0.1% |
| PROJECTED DEMAND TOTAL | 91,580 | 45,973 | -49.8% | 100,356 | 57,364 | -42.8% |

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# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 8,420 | 0 | -100.0% |
| **JASPER COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 148 | 148 | 0.0% | 14 | 16 | 14.3% |
| PROJECTED DEMAND TOTAL | 148 | 148 | 0.0% | 14 | 14 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **JASPER COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 6,520 | 7,163 | 9.9% | 6,515 | 7,120 | 9.3% |
| PROJECTED DEMAND TOTAL | 2,355 | 3,242 | 37.7% | 2,284 | 3,128 | 37.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **JEFFERSON COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,937 | 2,414 | -17.8% | 4,241 | 4,063 | -4.2% |
| PROJECTED DEMAND TOTAL | 2,560 | 2,076 | -18.9% | 7,537 | 6,802 | -9.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 3,296 | 2,739 | -16.9% |
| **JEFFERSON COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 208,433 | 204,341 | -2.0% | 208,433 | 204,341 | -2.0% |
| PROJECTED DEMAND TOTAL | 161,952 | 88,536 | -45.3% | 173,833 | 88,536 | -49.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **JEFFERSON COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,006 | 1,006 | 0.0% | 1,006 | 1,006 | 0.0% |
| PROJECTED DEMAND TOTAL | 943 | 837 | -11.2% | 943 | 837 | -11.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **JEFFERSON COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 242,797 | 242,797 | 0.0% | 399,214 | 399,214 | 0.0% |
| PROJECTED DEMAND TOTAL | 423,258 | 202,902 | -52.1% | 707,817 | 233,902 | -67.0% |
| WATER SUPPLY NEEDS TOTAL | 180,461 | 0 | -100.0% | 308,603 | 0 | -100.0% |
| **JEFFERSON COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 194 | 194 | 0.0% | 368 | 368 | 0.0% |
| PROJECTED DEMAND TOTAL | 194 | 194 | 0.0% | 368 | 368 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **JEFFERSON COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 57,618 | 58,723 | 1.9% | 61,541 | 61,679 | 0.2% |
| PROJECTED DEMAND TOTAL | 57,537 | 58,048 | 0.9% | 68,437 | 69,325 | 1.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 110 | 100.0% | 6,896 | 8,231 | 19.4% |
| **JEFFERSON COUNTY \| STEAM ELECTRIC POWER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 0 | 900 | 100.0% | 0 | 900 | 100.0% |
| PROJECTED DEMAND TOTAL | 13,426 | 3,291 | -75.5% | 30,839 | 3,291 | -89.3% |
| WATER SUPPLY NEEDS TOTAL | 13,426 | 2,391 | -82.2% | 30,839 | 2,391 | -92.2% |
| **NACOGDOCHES COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,185 | 1,185 | 0.0% | 1,881 | 1,881 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,185 | 686 | -42.1% | 1,881 | 1,090 | -42.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **NACOGDOCHES COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 509 | 440 | -13.6% | 509 | 440 | -13.6% |
| PROJECTED DEMAND TOTAL | 400 | 266 | -33.5% | 400 | 266 | -33.5% |

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# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **NACOGDOCHES COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,720 | 2,720 | 0.0% | 2,720 | 2,720 | 0.0% |
| PROJECTED DEMAND TOTAL | 4,364 | 9,693 | 122.1% | 5,779 | 12,836 | 122.1% |
| WATER SUPPLY NEEDS TOTAL | 1,644 | 6,973 | 324.1% | 3,059 | 10,116 | 230.7% |
| **NACOGDOCHES COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 12,564 | 12,508 | -0.4% | 13,758 | 12,530 | -8.9% |
| PROJECTED DEMAND TOTAL | 2,564 | 2,508 | -2.2% | 3,758 | 2,529 | -32.7% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **NACOGDOCHES COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,525 | 1,525 | 0.0% | 1,525 | 1,525 | 0.0% |
| PROJECTED DEMAND TOTAL | 7,000 | 7,000 | 0.0% | 707 | 707 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 5,475 | 5,475 | 0.0% | 0 | 0 | 0.0% |
| **NACOGDOCHES COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 12,675 | 13,310 | 5.0% | 16,568 | 17,538 | 5.9% |
| PROJECTED DEMAND TOTAL | 10,342 | 10,900 | 5.4% | 16,161 | 17,012 | 5.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 234 | 264 | 12.8% |
| **NACOGDOCHES COUNTY \| STEAM ELECTRIC POWER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 7,280 | 0 | -100.0% | 7,280 | 0 | -100.0% |
| PROJECTED DEMAND TOTAL | 6,911 | 0 | -100.0% | 15,874 | 0 | -100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 8,594 | 0 | -100.0% |
| **NEWTON COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,425 | 1,425 | 0.0% | 1,425 | 1,425 | 0.0% |
| PROJECTED DEMAND TOTAL | 969 | 886 | -8.6% | 875 | 800 | -8.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **NEWTON COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 380 | 380 | 0.0% | 380 | 380 | 0.0% |
| PROJECTED DEMAND TOTAL | 375 | 101 | -73.1% | 375 | 101 | -73.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **NEWTON COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 259 | 259 | 0.0% | 259 | 259 | 0.0% |
| PROJECTED DEMAND TOTAL | 121 | 168 | 38.8% | 121 | 168 | 38.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **NEWTON COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 568 | 568 | 0.0% | 931 | 931 | 0.0% |
| PROJECTED DEMAND TOTAL | 568 | 52 | -90.8% | 931 | 56 | -94.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **NEWTON COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 314 | 314 | 0.0% | 314 | 314 | 0.0% |
| PROJECTED DEMAND TOTAL | 429 | 429 | 0.0% | 107 | 107 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 115 | 115 | 0.0% | 0 | 0 | 0.0% |
| **NEWTON COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 872 | 940 | 7.8% | 865 | 926 | 7.1% |
| PROJECTED DEMAND TOTAL | 648 | 741 | 14.4% | 624 | 710 | 13.8% |

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# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 0 | 36 | 100.0% | 0 | 36 | 100.0% |
| **NEWTON COUNTY \| STEAM ELECTRIC POWER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 13,442 | 13,442 | 0.0% | 13,442 | 13,442 | 0.0% |
| PROJECTED DEMAND TOTAL | 14,132 | 5,778 | -59.1% | 32,463 | 5,778 | -82.2% |
| WATER SUPPLY NEEDS TOTAL | 690 | 0 | -100.0% | 19,021 | 0 | -100.0% |
| **ORANGE COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,899 | 2,862 | -1.3% | 3,066 | 2,862 | -6.7% |
| PROJECTED DEMAND TOTAL | 2,899 | 2,700 | -6.9% | 3,066 | 2,856 | -6.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ORANGE COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,298 | 1,298 | 0.0% | 1,298 | 1,298 | 0.0% |
| PROJECTED DEMAND TOTAL | 3,730 | 1,824 | -51.1% | 4,056 | 1,824 | -55.0% |
| WATER SUPPLY NEEDS TOTAL | 2,432 | 526 | -78.4% | 2,758 | 526 | -80.9% |
| **ORANGE COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 326 | 326 | 0.0% | 326 | 326 | 0.0% |
| PROJECTED DEMAND TOTAL | 208 | 255 | 22.6% | 208 | 255 | 22.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ORANGE COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 61,929 | 55,991 | -9.6% | 61,915 | 55,991 | -9.6% |
| PROJECTED DEMAND TOTAL | 64,461 | 44,335 | -31.2% | 94,026 | 48,193 | -48.7% |
| WATER SUPPLY NEEDS TOTAL | 2,532 | 0 | -100.0% | 32,111 | 0 | -100.0% |
| **ORANGE COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 327 | 327 | 0.0% | 327 | 327 | 0.0% |
| PROJECTED DEMAND TOTAL | 309 | 309 | 0.0% | 327 | 327 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ORANGE COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 9,165 | 7,999 | -12.7% | 9,525 | 8,279 | -13.1% |
| PROJECTED DEMAND TOTAL | 7,744 | 7,012 | -9.5% | 8,148 | 7,330 | -10.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **ORANGE COUNTY \| STEAM ELECTRIC POWER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 5,791 | 5,791 | 0.0% | 5,791 | 5,791 | 0.0% |
| PROJECTED DEMAND TOTAL | 4,966 | 4,298 | -13.5% | 10,637 | 4,298 | -59.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 4,846 | 0 | -100.0% |
| **PANOLA COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,800 | 1,800 | 0.0% | 1,800 | 1,800 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,620 | 1,595 | -1.5% | 1,702 | 1,664 | -2.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **PANOLA COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 574 | 602 | 4.9% | 574 | 602 | 4.9% |
| PROJECTED DEMAND TOTAL | 64 | 574 | 796.9% | 64 | 574 | 796.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **PANOLA COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,670 | 1,670 | 0.0% | 1,670 | 1,670 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,480 | 2,652 | 79.2% | 1,480 | 2,652 | 79.2% |

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# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 0 | 982 | 100.0% | 0 | 982 | 100.0% |
| **PANOLA COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,259 | 1,259 | 0.0% | 1,468 | 1,468 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,393 | 852 | -38.8% | 1,777 | 1,272 | -28.4% |
| WATER SUPPLY NEEDS TOTAL | 134 | 0 | -100.0% | 309 | 0 | -100.0% |
| **PANOLA COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 9,235 | 9,107 | -1.4% | 9,648 | 9,520 | -1.3% |
| PROJECTED DEMAND TOTAL | 5,916 | 5,916 | 0.0% | 3,938 | 3,938 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **PANOLA COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,455 | 2,478 | 0.9% | 2,506 | 2,531 | 1.0% |
| PROJECTED DEMAND TOTAL | 1,933 | 1,965 | 1.7% | 2,018 | 2,073 | 2.7% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 21 | 100.0% |
| **POLK COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 743 | 743 | 0.0% | 957 | 957 | 0.0% |
| PROJECTED DEMAND TOTAL | 743 | 397 | -46.6% | 957 | 494 | -48.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **POLK COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 769 | 769 | 0.0% | 769 | 769 | 0.0% |
| PROJECTED DEMAND TOTAL | 428 | 230 | -46.3% | 428 | 230 | -46.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **POLK COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 634 | 634 | 0.0% | 634 | 634 | 0.0% |
| PROJECTED DEMAND TOTAL | 357 | 174 | -51.3% | 357 | 174 | -51.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **POLK COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 613 | 613 | 0.0% | 1,009 | 1,009 | 0.0% |
| PROJECTED DEMAND TOTAL | 604 | 433 | -28.3% | 1,000 | 466 | -53.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **POLK COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 186 | 186 | 0.0% | 186 | 186 | 0.0% |
| PROJECTED DEMAND TOTAL | 123 | 123 | 0.0% | 9 | 9 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **POLK COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 292 | 614 | 110.3% | 292 | 790 | 170.5% |
| PROJECTED DEMAND TOTAL | 225 | 595 | 164.4% | 292 | 788 | 169.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **RUSK COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 4,331 | 4,331 | 0.0% | 4,331 | 4,331 | 0.0% |
| PROJECTED DEMAND TOTAL | 2,889 | 1,042 | -63.9% | 4,172 | 1,507 | -63.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **RUSK COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 598 | 592 | -1.0% | 598 | 592 | -1.0% |
| PROJECTED DEMAND TOTAL | 100 | 276 | 176.0% | 100 | 276 | 176.0% |

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# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **RUSK COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,496 | 1,496 | 0.0% | 1,534 | 1,534 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,207 | 1,660 | 37.5% | 1,292 | 1,777 | 37.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 200 | 100.0% | 0 | 243 | 100.0% |
| **RUSK COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 349 | 348 | -0.3% | 471 | 470 | -0.2% |
| PROJECTED DEMAND TOTAL | 317 | 32 | -89.9% | 439 | 34 | -92.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **RUSK COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,915 | 1,915 | 0.0% | 1,915 | 1,915 | 0.0% |
| PROJECTED DEMAND TOTAL | 2,990 | 2,990 | 0.0% | 3,592 | 3,592 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 1,075 | 1,075 | 0.0% | 1,677 | 1,677 | 0.0% |
| **RUSK COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 11,452 | 13,547 | 18.3% | 11,774 | 15,153 | 28.7% |
| PROJECTED DEMAND TOTAL | 6,489 | 8,633 | 33.0% | 9,915 | 13,103 | 32.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 184 | 184 | 0.0% |
| **RUSK COUNTY \| STEAM ELECTRIC POWER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 44,201 | 44,201 | 0.0% | 44,201 | 44,201 | 0.0% |
| PROJECTED DEMAND TOTAL | 27,458 | 45,304 | 65.0% | 63,069 | 45,304 | -28.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 1,103 | 100.0% | 18,868 | 1,103 | -94.2% |
| **SABINE COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 761 | 721 | -5.3% | 761 | 721 | -5.3% |
| PROJECTED DEMAND TOTAL | 149 | 134 | -10.1% | 132 | 120 | -9.1% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SABINE COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 732 | 732 | 0.0% | 732 | 732 | 0.0% |
| PROJECTED DEMAND TOTAL | 159 | 129 | -18.9% | 448 | 363 | -19.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SABINE COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 847 | 843 | -0.5% | 847 | 843 | -0.5% |
| PROJECTED DEMAND TOTAL | 467 | 246 | -47.3% | 785 | 265 | -66.2% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SABINE COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,278 | 2,278 | 0.0% | 2,278 | 2,278 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,500 | 1,500 | 0.0% | 776 | 776 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SABINE COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,327 | 1,656 | 24.8% | 1,328 | 1,642 | 23.6% |
| PROJECTED DEMAND TOTAL | 881 | 925 | 5.0% | 863 | 900 | 4.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SAN AUGUSTINE COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,087 | 1,087 | 0.0% | 1,089 | 1,089 | 0.0% |
| PROJECTED DEMAND TOTAL | 589 | 481 | -18.3% | 532 | 434 | -18.4% |

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# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SAN AUGUSTINE COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 62 | 62 | 0.0% | 62 | 62 | 0.0% |
| PROJECTED DEMAND TOTAL | 62 | 4 | -93.5% | 62 | 4 | -93.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SAN AUGUSTINE COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 921 | 608 | -34.0% | 1,400 | 654 | -53.3% |
| PROJECTED DEMAND TOTAL | 903 | 2,004 | 121.9% | 1,382 | 3,066 | 121.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 1,396 | 100.0% | 0 | 2,412 | 100.0% |
| **SAN AUGUSTINE COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 17 | 17 | 0.0% | 17 | 17 | 0.0% |
| PROJECTED DEMAND TOTAL | 8 | 6 | -25.0% | 13 | 6 | -53.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SAN AUGUSTINE COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,898 | 1,898 | 0.0% | 1,898 | 1,898 | 0.0% |
| PROJECTED DEMAND TOTAL | 4,000 | 4,000 | 0.0% | 662 | 662 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 2,102 | 2,102 | 0.0% | 0 | 0 | 0.0% |
| **SAN AUGUSTINE COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 595 | 705 | 18.5% | 593 | 691 | 16.5% |
| PROJECTED DEMAND TOTAL | 567 | 677 | 19.4% | 546 | 644 | 17.9% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SHELBY COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 2,326 | 1,430 | -38.5% | 2,660 | 1,583 | -40.5% |
| PROJECTED DEMAND TOTAL | 2,021 | 898 | -55.6% | 2,433 | 1,082 | -55.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SHELBY COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 98 | 98 | 0.0% | 98 | 98 | 0.0% |
| PROJECTED DEMAND TOTAL | 26 | 10 | -61.5% | 26 | 10 | -61.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SHELBY COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3,898 | 3,898 | 0.0% | 3,898 | 3,898 | 0.0% |
| PROJECTED DEMAND TOTAL | 5,265 | 11,858 | 125.2% | 10,822 | 24,373 | 125.2% |
| WATER SUPPLY NEEDS TOTAL | 1,367 | 7,960 | 482.3% | 6,924 | 20,475 | 195.7% |
| **SHELBY COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,821 | 3,282 | 80.2% | 2,540 | 3,740 | 47.2% |
| PROJECTED DEMAND TOTAL | 1,510 | 1,696 | 12.3% | 2,170 | 1,696 | -21.8% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SHELBY COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3,325 | 3,325 | 0.0% | 1,725 | 1,725 | 0.0% |
| PROJECTED DEMAND TOTAL | 3,283 | 3,283 | 0.0% | 1,087 | 1,087 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SHELBY COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3,045 | 4,644 | 52.5% | 3,588 | 4,839 | 34.9% |
| PROJECTED DEMAND TOTAL | 2,390 | 3,753 | 57.0% | 3,029 | 4,691 | 54.9% |

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# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 360 | 100.0% |
| **SMITH COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 823 | 823 | 0.0% | 1,816 | 1,816 | 0.0% |
| PROJECTED DEMAND TOTAL | 823 | 475 | -42.3% | 1,816 | 1,209 | -33.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SMITH COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,486 | 1,486 | 0.0% | 1,659 | 1,659 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,486 | 448 | -69.9% | 1,659 | 448 | -73.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SMITH COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,115 | 1,115 | 0.0% | 1,115 | 1,115 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,115 | 580 | -48.0% | 1,115 | 580 | -48.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **SMITH COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 3,656 | 3,656 | 0.0% | 5,116 | 5,116 | 0.0% |
| PROJECTED DEMAND TOTAL | 5,120 | 2,956 | -42.3% | 7,553 | 3,348 | -55.7% |
| WATER SUPPLY NEEDS TOTAL | 1,464 | 0 | -100.0% | 2,437 | 0 | -100.0% |
| **SMITH COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 26 | 26 | 0.0% | 26 | 26 | 0.0% |
| PROJECTED DEMAND TOTAL | 134 | 134 | 0.0% | 58 | 58 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 108 | 108 | 0.0% | 32 | 32 | 0.0% |
| **SMITH COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 33,296 | 31,903 | -4.2% | 44,177 | 43,029 | -2.6% |
| PROJECTED DEMAND TOTAL | 32,365 | 32,504 | 0.4% | 46,502 | 46,941 | 0.9% |
| WATER SUPPLY NEEDS TOTAL | 116 | 1,752 | 1410.3% | 2,396 | 4,049 | 69.0% |
| **TRINITY COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 995 | 260 | -73.9% | 996 | 260 | -73.9% |
| PROJECTED DEMAND TOTAL | 230 | 131 | -43.0% | 250 | 144 | -42.4% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **TRINITY COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 170 | 303 | 78.2% | 170 | 303 | 78.2% |
| PROJECTED DEMAND TOTAL | 500 | 278 | -44.4% | 500 | 278 | -44.4% |
| WATER SUPPLY NEEDS TOTAL | 330 | 0 | -100.0% | 330 | 0 | -100.0% |
| **TRINITY COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 478 | 478 | 0.0% | 478 | 478 | 0.0% |
| PROJECTED DEMAND TOTAL | 478 | 202 | -57.7% | 478 | 202 | -57.7% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **TRINITY COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 5 | 5 | 0.0% | 5 | 5 | 0.0% |
| PROJECTED DEMAND TOTAL | 5 | 5 | 0.0% | 5 | 5 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **TRINITY COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 312 | 467 | 49.7% | 316 | 479 | 51.6% |
| PROJECTED DEMAND TOTAL | 58 | 213 | 267.2% | 61 | 225 | 268.9% |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Before aggregating the difference between supplies and demands to the WUG county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

# Region I Water User Group (WUG) Data Comparison to 2016 Regional Water Plan (RWP)*

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **TYLER COUNTY \| COUNTY-OTHER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,494 | 1,494 | 0.0% | 1,376 | 1,376 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,494 | 793 | -46.9% | 1,376 | 711 | -48.3% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **TYLER COUNTY \| IRRIGATION WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 682 | 647 | -5.1% | 682 | 647 | -5.1% |
| PROJECTED DEMAND TOTAL | 675 | 354 | -47.6% | 675 | 354 | -47.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **TYLER COUNTY \| LIVESTOCK WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 314 | 314 | 0.0% | 314 | 314 | 0.0% |
| PROJECTED DEMAND TOTAL | 288 | 249 | -13.5% | 288 | 249 | -13.5% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **TYLER COUNTY \| MANUFACTURING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 476 | 0 | -100.0% | 506 | 0 | -100.0% |
| PROJECTED DEMAND TOTAL | 476 | 0 | -100.0% | 506 | 0 | -100.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **TYLER COUNTY \| MINING WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 237 | 237 | 0.0% | 237 | 237 | 0.0% |
| PROJECTED DEMAND TOTAL | 160 | 160 | 0.0% | 29 | 29 | 0.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **TYLER COUNTY \| MUNICIPAL WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 7,766 | 7,767 | 0.0% | 7,766 | 7,772 | 0.1% |
| PROJECTED DEMAND TOTAL | 1,876 | 2,726 | 45.3% | 1,779 | 2,597 | 46.0% |
| WATER SUPPLY NEEDS TOTAL | 0 | 212 | 100.0% | 0 | 156 | 100.0% |
| **TYLER COUNTY \| STEAM ELECTRIC POWER WUG TYPE** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,029 | 1,029 | 0.0% | 1,029 | 1,029 | 0.0% |
| PROJECTED DEMAND TOTAL | 1,029 | 200 | -80.6% | 1,029 | 200 | -80.6% |
| WATER SUPPLY NEEDS TOTAL | 0 | 0 | 0.0% | 0 | 0 | 0.0% |
| **REGION I** | | | | | | |
| EXISTING WUG SUPPLY TOTAL | 1,027,695 | 1,012,689 | -1.5% | 1,216,723 | 1,200,916 | -1.3% |
| PROJECTED DEMAND TOTAL | 1,108,800 | 738,081 | -33.4% | 1,607,250 | 839,601 | -47.8% |
| WATER SUPPLY NEEDS TOTAL | 236,971 | 44,773 | -81.1% | 508,008 | 68,328 | -86.5% |

*WUG supplies and projected demands are entered for each of a WUG's region-county-basin divisions. The needs shown in the WUG Data Comparison to 2016 RWP report are calculated by first deducting the WUG split's projected demand from its total existing water supply volume. If the WUG split has a greater existing supply volume than projected demand in any given decade, this amount is considered a surplus volume. Before aggregating the difference between supplies and demands to the WUG county and category level, calculated surpluses are updated to zero so that only the WUGs with needs in the decade are included with the Needs totals.

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## Attachment 9

## TWDB DB22 Report #10b. Source Data Compared to 2016 RWP

# Region I Source Data Comparison to 2016 Regional Water Plan (RWP)

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| **ANDERSON COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 29,792 | 49,104 | 64.8% | 29,792 | 49,104 | 64.8% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 2,274 | 2,469 | 8.6% | 2,274 | 2,469 | 8.6% |
| **ANGELINA COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 45,898 | 46,757 | 1.9% | 45,515 | 46,374 | 1.9% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 735 | 675 | -8.2% | 735 | 675 | -8.2% |
| **CHEROKEE COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 34,245 | 44,771 | 30.7% | 34,245 | 43,963 | 28.4% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 1,756 | 1,682 | -4.2% | 1,756 | 1,682 | -4.2% |
| **HARDIN COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 34,959 | 34,927 | -0.1% | 34,959 | 34,927 | -0.1% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 212 | 212 | 0.0% | 212 | 212 | 0.0% |
| **HENDERSON COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 17,000 | 18,788 | 10.5% | 17,000 | 18,788 | 10.5% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 770 | 770 | 0.0% | 770 | 770 | 0.0% |
| **HOUSTON COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 13,313 | 36,700 | 175.7% | 13,313 | 36,700 | 175.7% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 3,860 | 4,520 | 17.1% | 3,860 | 4,520 | 17.1% |
| **JASPER COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 67,573 | 67,484 | -0.1% | 67,494 | 67,484 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 383,166 | 382,977 | 0.0% | 383,166 | 382,977 | 0.0% |
| **JEFFERSON COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 2,445 | 2,525 | 3.3% | 2,445 | 2,525 | 3.3% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 13,687 | 13,687 | 0.0% | 13,687 | 13,687 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 825,935 | 821,269 | -0.6% | 831,590 | 826,924 | -0.6% |
| **NACOGDOCHES COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 28,162 | 28,897 | 2.6% | 28,162 | 28,897 | 2.6% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 3,016 | 2,949 | -2.2% | 3,016 | 2,949 | -2.2% |
| **NEWTON COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 34,177 | 34,219 | 0.1% | 34,139 | 34,219 | 0.2% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 147,598 | 133,441 | -9.6% | 147,598 | 133,441 | -9.6% |
| **ORANGE COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 20,013 | 19,364 | -3.2% | 20,013 | 19,364 | -3.2% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 15 | 15 | 0.0% | 15 | 15 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 284,614 | 284,614 | 0.0% | 284,614 | 284,614 | 0.0% |
| **PANOLA COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 8,227 | 8,376 | 1.8% | 8,069 | 8,068 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 1,855 | 1,828 | -1.5% | 1,855 | 1,828 | -1.5% |
| **POLK COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 13,516 | 16,527 | 22.3% | 12,854 | 16,527 | 28.6% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 416 | 416 | 0.0% | 416 | 416 | 0.0% |
| **RESERVOIR COUNTY** | | | | | | |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 1,995,968 | 1,994,570 | -0.1% | 1,975,130 | 1,972,305 | -0.1% |
| **RUSK COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 21,640 | 21,634 | 0.0% | 21,611 | 21,615 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 2,571 | 2,565 | -0.2% | 2,571 | 2,565 | -0.2% |
| **SABINE COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 11,789 | 8,437 | -28.4% | 11,789 | 8,437 | -28.4% |

# Region I Source Data Comparison to 2016 Regional Water Plan (RWP)

| | 2020 PLANNING DECADE | | | 2070 PLANNING DECADE | | |
|---|---|---|---|---|---|---|
| | 2016 RWP | 2021 RWP | DIFFERENCE (%) | 2016 RWP | 2021 RWP | DIFFERENCE (%) |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 20 | 20 | 0.0% | 20 | 20 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 887 | 883 | -0.5% | 887 | 883 | -0.5% |
| **SAN AUGUSTINE COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 5,499 | 5,111 | -7.1% | 5,499 | 5,111 | -7.1% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 536 | 536 | 0.0% | 536 | 536 | 0.0% |
| **SHELBY COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 11,217 | 10,894 | -2.9% | 9,729 | 9,099 | -6.5% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 233 | 233 | 0.0% | 299 | 299 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 4,332 | 4,332 | 0.0% | 4,332 | 4,332 | 0.0% |
| **SMITH COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 50,185 | 54,319 | 8.2% | 50,185 | 54,307 | 8.2% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 655 | 655 | 0.0% | 655 | 655 | 0.0% |
| **TRINITY COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 2,827 | 1,823 | -35.5% | 2,827 | 1,823 | -35.5% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 511 | 452 | -11.5% | 511 | 452 | -11.5% |
| **TYLER COUNTY** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 38,199 | 38,211 | 0.0% | 38,156 | 38,211 | 0.1% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 370 | 335 | -9.5% | 370 | 335 | -9.5% |
| **REGION I** | | | | | | |
| GROUNDWATER AVAILABILITY TOTAL (acre-feet per year) | 490,676 | 548,868 | 11.9% | 487,796 | 545,543 | 11.8% |
| REUSE AVAILABILITY TOTAL (acre-feet per year) | 13,955 | 13,955 | 0.0% | 14,021 | 14,021 | 0.0% |
| SURFACE WATER AVAILABILITY TOTAL (acre-feet per year) | 3,662,037 | 3,642,150 | -0.5% | 3,646,854 | 3,625,540 | -0.6% |

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# Attachment 10a

## Modifications to Draft Available Water Supplies

Model Modification Assumptions

# Summary of WAM Modifications in the Development of Surface Water Supplies for the East Texas 2021 Regional Water Plan

The Texas Water Development Board (TWDB) requires regional water planning groups (RWPG) to use Full Authorization Water Availability Models (WAM Run 3) maintained by the Texas Commission on Environmental Quality (TCEQ) in the development of surface water availability for regional water plans (RWPs). In a letter submitted to TWDB on July 3, 2018, the Region I Consultant Team on behalf of the East Texas Regional Water Planning Group (Region I) requested a hydrologic variance to use modified versions of the Run 3 WAMs for the Trinity River, Neches River, and Sabine River Basins to develop supplies for the Region I 2021 RWP. This hydrologic variance request is still pending approval.

For the Trinity River Basin, Region I adopted the updated Trinity Basin WAM developed by the Region C Water Planning Group. These changes are documented in Region C's hydrologic variance request to the TWDB. Region I also includes part of the Neches-Trinity Coastal Basin. As no changes were proposed by Region I to the Neches-Trinity WAM, surface water supplies in that basin were developed using the unmodified Neches-Trinity Coastal Basin WAM Run 3. This memorandum describes the modifications made to the Neches River and Sabine River WAMs by Region I.

## Neches River Basin WAM for the 2021 Region I RWP

Changes to the WAM for the 2021 RWP are based on changes in previous cycles, as well as the inclusion of updated sedimentation of major reservoirs, as specified by Exhibit C ("Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development"). The following sections describe all changes made to the TCEQ Neches WAM Run 3 (2012) to develop the modified Neches WAM, which will be used to determine existing supplies in the Neches River Basin in the Region I 2021 RWP.

### Area-Capacity Relationships

Exhibit C requires RWPGs to include anticipated sedimentation of all major reservoirs (those with a capacity greater than 5,000 ac-ft) in the WAM model runs. There are 12 such permitted reservoirs in the Neches Basin; information related to sedimentation of these reservoirs is shown in Table 1.

Lake Columbia has not yet been constructed, so to be conservative, Lake Columbia's full design capacity and original area-capacity curve was used when evaluating firm yields for all other reservoirs. Conversely, to estimate the yield from Lake Columbia, it was assumed that the reservoir would be built in 2020 and begin collecting sediment at that time.

***Table 1. Sedimentation Rates and Projected Storage Capacity of Major Reservoirs in the Neches River Basin***

| Reservoir | Most Recent Survey | | Sediment-Contributing Drainage Area ($mi^2$) | Sedimentation Rate (ac-ft/yr/$mi^2$) | Projected 2070 Capacity (ac-ft) |
|---|---|---|---|---|---|
| | Year | Conservation Pool Capacity (ac-ft) | | | |
| Lake Athens | 1998 | 29,475 | 22 | 4.35 | 22,719 |
| Lake Columbia** | * | 195,500 | 277 | 0.19 | 192,910 |
| Lake Jacksonville | 2006 | 25,732 | 34 | 2.88 | 19,508 |
| Lake Kurth | 1996 | 14,769 | 4 | 8.57 | 12,265 |
| Lake Nacogdoches | 1994 | 39,523 | 89 | 1.75 | 27,664 |
| Lake Naconiche | * | 9,072 | 27 | 0.19 | 8,750 |
| Lake Palestine | 2012 | 367,310 | 817 | 0.76 | 331,689 |
| Pinkston Lake | * | 7,380 | 14 | 0.19 | 7,130 |
| Sam Rayburn Reservoir | 2004 | 2,876,033 | 3,010 | 0.18 | 2,839,698 |
| Lake B. A. Steinhagen | 2011 | 69,259 | 3,251 | 0.06 | 58,731 |
| Lake Striker | 1996 | 22,865 | 182 | 0.85 | 11,561 |
| Lake Tyler | 2013 | 77,284 | 107 | 1.00 | 71,192 |

** No survey available. Conservation pool capacity reflects design capacity.*

*** Permitted but not yet constructed. Projected 2070 capacity based on assumption of sedimentation beginning 1/1/2020.*

## Subordination of Sam Rayburn Reservoir and B. A. Steinhagen Lake

### *Background*

Special conditions 5C and 5D of Certificate of Adjudication 06-4411 require subordination of LNVA's rights in the Rayburn-Steinhagen system to (a) water rights upstream of the proposed Weches and Ponta Dam sites and (b) intervening municipal rights above Sam Rayburn Reservoir. These conditions were last amended in Amendment H, filed August 14, 2008, and granted July 20, 2010, which limited subordination to rights with priority dates between November 1963 and April 2008.

Several changes were implemented in the WAM related to dual simulation, output, and the refilling of Rayburn and Steinhagen.

a) Water rights benefiting from subordination were updated to run in both the first and second WRAP simulation.
b) FNI added additional rights for each water right benefiting from Rayburn/Steinhagen subordination, such that the original right does not have subordination, and the added right applies the subordination and backs up the original without subordination. In doing so, the effects of subordination can be distinguished in the model output.
c) Subordination rights at Rayburn and Steinhagen to back up other rights were modeled to not refill storage (Type 2 water rights) so that Rayburn and Steinhagen would not be refilling between multiple subordinations.
d) The 1963 rights for impoundment at Rayburn and Steinhagen were reordered so that Rayburn, the upstream reservoir, would be filled from available streamflow before Steinhagen is refilled.

## Reservoir System Operations

### *UNRMWA – Lake Palestine and Rocky Point Dam*

The Upper Neches River Municipal Water Authority operates Lake Palestine in conjunction with its downstream dam on the Neches River in Anderson and Cherokee Counties. The 2012 WAM Run 3 allows rights associated with the downstream dam to draw from both reservoirs, which limits the firm yield of Lake Palestine when it is used to back up the downstream dam. This set of rights was modified so that downstream diversions would first be backed up by the subordination agreement at Steinhagen Lake, and any remaining shortages would be backed up by Lake Palestine.

### *LNVA – Sam Rayburn Backup of Pine Island Bayou*

The modified WAM approved by TWDB for the development of supplies in the 2011 RWP included "operation of LNVA's water rights […] as a system by including backup of LNVA's Pine Island water rights with storage from Sam Rayburn."

## Minimum Elevations – Sam Rayburn and B.A. Steinhagen

WS and OR records were used to set inactive pool capacity for Sam Rayburn Reservoir. The top elevation of inactive pool is 149 ft msl, and the inactive pool capacity was updated each decade based on updated area-capacity-elevation curves. The City of Lufkin has a right to a lakeside diversion of up to 28,000 ac-ft/yr from Sam Rayburn Reservoir; no inactive pool capacity was applied for this right. This diversion is lakeside and does not generate hydropower, so it is not limited by the inlet elevation.

A dead pool capacity was also set for B. A. Steinhagen using an inactive pool elevation of 81 ft msl. Inactive pools were not applied to subordination-related backup rights for either reservoir.

## Lake Tyler

For the 2021 Region I WAM, Lake Tyler was modeled as a single reservoir, and associated water rights were adjusted accordingly. This is consistent with the development of the original Neches WAM, which treated this source as one reservoir.

## Environmental Flows Standard for Permit 5585

The TCEQ Run 3 WAM included an incorrect target value for the instream flow record at Lake Naconiche (5585A) due to a unit conversion error. The target was corrected to 4744 ac-ft/yr (see `IF` record at 5585A).

# Sabine River Basin WAM for the 2021 Region I RWP

The following sections describe all changes made to the TCEQ Sabine WAM Run 3 (2015) to develop the modified Sabine WAM, which will be used to determine existing supplies from the Sabine River Basin in the Region I 2021 RWP.

## Area-Capacity Relationships

Exhibit C requires RWPGs to include anticipated sedimentation of all major reservoirs (those with a capacity greater than 5,000 ac-ft) in the WAM model runs. There are 12 such permitted reservoirs in the Sabine Basin; information related to sedimentation of these reservoirs is shown in Table 2. For each of the 12 reservoirs, sedimentation conditions were estimated based on an average annual sedimentation rate and the number of years since the last survey.

***Table 2. Sedimentation Rates and Projected Storage Capacity of Major Reservoirs in the Sabine River Basin***

| Reservoir | Most Recent Survey | | Sediment-Contributing Drainage Area ($mi^2$) | Sedimentation Rate ($ac\text{-}ft/yr/mi^2$) | Projected 2070 Capacity (ac-ft) |
|---|---|---|---|---|---|
| | Year | Conservation Pool Capacity (ac-ft) | | | |
| Lake Tawakoni | 2009 | 871,693 | 756 | 2.96 | 736,428 |
| Lake Fork Reservoir | 2009 | 636,504 | 493 | 3.83 | 522,671 |
| Lake Gladewater | 2000 | 4,738 | 35 | 1.33 | 1,480 |
| Lake Cherokee | 2015 | 44,475 | 158 | 0.26 | 42,230 |
| Brandy Branch Reservoir | * | 29,513 | 4 | 0.24 | 29,429 |
| Martin Lake | 2014 | 75,726 | 130 | 0.37 | 73,097 |
| Murvaul Lake | 1998 | 38,284 | 115 | 1.64 | 24,873 |
| Toledo Bend Reservoir | * | 4,477,000 | 5,384 | 0.12 | 4,410,291 |
| Lake Hawkins | 1962 | 11,890 | 30 | 0.24 | 11,117 |
| Lake Holbrook | * | 7,990 | 15 | 0.24 | 7,604 |
| Lake Quitman | * | 7,440 | 31 | 0.24 | 6,639 |
| Lake Winnsboro | * | 8,100 | 27 | 0.24 | 7,403 |

** No recent survey available. Conservation pool capacity reflects design capacity.*

## Firm Yield of Toledo Bend Reservoir

Hydropower operations at Toledo Bend were excluded during the determination of total available supply from the lake. However, hydropower operations were included in the evaluation of supplies for all other reservoirs and run-of-river supplies. The canal water rights owned by Sabine River Authority (SRA) in the lower basin modeled as being subordinate to diversions from Toledo Bend Reservoir for the purposes of determining firm yield. The remainder of the yield of Toledo Bend was evaluated assuming all diversions were taken lakeside. Within the WAM, all diversions from the lake are shared equally between SRA-Texas and SRA-Louisiana, including the additional unpermitted yield.

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# Attachment 10b

## Modifications to Draft Available Water Supplies

Original Unmodified Firm Yield

***Original and Modified Firm Yield for Reservoirs***

| Reservoir | Unmodified WAM Firm Yield (ac-ft/yr) | | | | | | Modified Firm Yield (ac-ft/yr) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 |
| **Trinity Basin** | | | | | | | | | | | | |
| Houston County Lake | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 |
| **Neches Basin** | | | | | | | | | | | | |
| Lake Athens | 5,950 | 5,864 | 5,778 | 5,692 | 5,606 | 5,520 | 5,950 | 5,864 | 5,778 | 5,692 | 5,606 | 5,520 |
| Lake Jacksonville | 6,200 | 6,200 | 6,200 | 6,200 | 6,200 | 6,200 | 6,200 | 6,200 | 6,200 | 6,200 | 6,200 | 6,200 |
| Lake Nacogdoches | 16,920 | 16,516 | 16,112 | 15,708 | 15,304 | 14,900 | 16,200 | 15,800 | 15,400 | 15,000 | 14,600 | 14,200 |
| Lake Tyler | 20,280 | 20,198 | 20,116 | 20,034 | 19,952 | 19,870 | 34,830 | 34,666 | 34,502 | 34,338 | 34,174 | 34,010 |
| Lake Columbia | 78,090 | 78,090 | 78,090 | 78,090 | 78,090 | 78,090 | 75,800 | 75,720 | 75,640 | 75,560 | 75,480 | 75,400 |
| Pinkston Reservoir* | 3,800 | 3,800 | 3,800 | 3,800 | 3,800 | 3,800 | 3,800 | 3,800 | 3,800 | 3,800 | 3,800 | 3,800 |
| Lake Kurth | 18,500 | 18,500 | 18,500 | 18,500 | 18,500 | 18,500 | 18,500 | 18,500 | 18,500 | 18,500 | 18,500 | 18,500 |
| Striker Creek Reservoir | 16,585 | 16,207 | 15,829 | 15,451 | 15,073 | 14,695 | 20,340 | 19,635 | 18,890 | 18,150 | 16,715 | 14,690 |
| Lake Palestine System | 190,000 | 189,274 | 188,548 | 187,822 | 187,096 | 186,370 | 197,710 | 196,110 | 194,610 | 193,010 | 191,310 | 189,010 |
| Sam Rayburn & Steinhagen System | 820,000 | 820,000 | 820,000 | 820,000 | 820,000 | 820,000 | 820,000 | 820,000 | 820,000 | 820,000 | 820,000 | 820,000 |
| Lake Timpson | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 |
| Bellwood Lake | 953 | 953 | 953 | 953 | 953 | 953 | 996 | 996 | 996 | 996 | 996 | 996 |
| Rusk City Lake | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| San Augustine City Lake | 1,285 | 1,285 | 1,285 | 1,285 | 1,285 | 1,285 | 1,285 | 1,285 | 1,285 | 1,285 | 1,285 | 1,285 |
| **Sabine Basin**** | | | | | | | | | | | | |
| Lake Cherokee | 31,456 | 31,309 | 31,162 | 31,015 | 30,867 | 30,720 | 31,456 | 31,309 | 31,162 | 31,015 | 30,867 | 30,720 |
| Martin Lake | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 |
| Lake Murvaul | 21,367 | 20,686 | 20,006 | 19,325 | 18,644 | 17,963 | 21,367 | 20,686 | 20,006 | 19,325 | 18,644 | 17,963 |
| Toledo Bend Reservoir | 750,000 | 750,000 | 750,000 | 750,000 | 750,000 | 750,000 | 750,000 | 750,000 | 750,000 | 750,000 | 750,000 | 750,000 |
| Lake Center* | 485 | 485 | 485 | 485 | 485 | 485 | 1,460 | 1,460 | 1,460 | 1,460 | 1,460 | 1,460 |

*Notes*

**Modified firm yields for Pinkston Reservoir and Lake Center were determined in a separate study conducted for the City of Center by FNI using previous WAM Run 3 versions. These model runs were approved for use in the 2016 RWP.*

***Modifications to the Sabine Basin WAM were limited to required sedimentation and the exclusion of hydropower from firm yield modeling of Toledo Bend Reservoir, so unmodified and modified yields in the Sabine Basin are equivalent with the exception of Lake Center.*

# Attachment 11

# Identification of Potentially Feasible Water Management Strategies

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS • DESIGNERS • SCIENTISTS

MEMORANDUM

# East Texas Regional Water Planning Area
# Identification of Potentially Feasible Water Management Strategies

**Project No:** 1600-003-01

**Date:** August 15, 2018

**Prepared For:** East Texas Regional Water Planning Group

**Prepared By:** Cynthia A. Syvarth, PE, Alan Plummer Associates, Inc.
Spandana Tummuri, PhD, PE, ENV SP, Freese and Nichols, Inc.
Rex H. Hunt, PE, Alan Plummer Associates, Inc.

This memorandum documents the process used by the East Texas Regional Water Planning Area to identify Potentially Feasible Water Management Strategies (WMS) for the East Texas Regional Water Planning Area (ETRWPA or Region I) 2021 Regional Water Plan (2021 Plan). The process was presented at an ETRWPG general meeting dated December 11, 2017 held to receive public input on the process. No public comments were received and the process was approved by the ETRWPG.

The screening criteria used to assess the feasibility of potential strategies in the ETRWPA are provided as follows. These criteria were adopted as guidelines, and strategies could be retained or dismissed at the discretion of the ETRWPG.

## GENERAL

- Feasible strategy must have an identified sponsor or authority.
- Feasible strategy must consider the end use. This includes water quality, distance to end use, etc. For example, long transmission systems with pumping are not likely to be economically feasible for irrigation use.
- Strategy should provide a reasonable percentage of the projected need (except conservation, which will be evaluated for all needs).
- Strategy must meet existing federal and state regulations.
- Strategies must be based on proven technology.
- Strategy must be able to be implemented.
- Strategy must be appropriate for regional water planning.

## WATER MANAGEMENT STRATEGY TYPES

In accordance with Texas Water Code §16.053(e)(3) and Texas Administrative Code, Chapter 31, §357.34(c), the ETRWPG must evaluate all WMSs the regional water planning group determines to be potentially feasible. The types of WMSs to be evaluated are described below.

### *1. Water Conservation*

The guidelines for water planning require that water conservation be considered as a strategy for every identified need. If water conservation is not adopted, the reason must be documented. Water conservation in the ETRWPA is driven more by economics than lack of readily available supply, and therefore, not every user will have the need to implement conservation. Additional screening criteria for conservation strategies were adopted to comply with this general policy. The criteria are outlined below.

- Municipal conservation strategies will be evaluated for municipal WUGs that have a need identified during the planning period and a current per capita water use greater than 140 gpcd. This is the TWDB recommended goal for municipal users based on the Conservation Task Force recommendations. Municipal conservation will not be evaluated for WUGs with current usage less than 140 gpcd.
- Industrial, commercial and institutional (ICI) conservation strategies will be considered for cities with ICI use that exceeds 20 percent of the city's total water use.
- Industrial conservation will be evaluated for counties with manufacturing demands greater than 1,000 ac-ft per year and/or have identifiable industries with water use greater than 500 ac-ft per year.
- Steam-electric power water demands consider a high level of conservation in the development of the projections. No additional conservation measures will be considered for steam-electric power.
- Irrigation conservation measures will be considered by crop type and water source.
- Conservation will not be considered for livestock or mining water demands. The cost of water in these industries comprises a small percentage of the overall business cost, and it is not expected that these industries will see an economic benefit to water conservation.
- Review best managements practices (BMPs) for applicability and updates
- Identify possible permanent reductions in water demands

### *2. Drought Management Measures*

Drought management WMSs are implemented in response to drought conditions. These strategies provide a safety factor for water users during drought. Drought management measures will not be adopted as strategies to meet long-range needs.

### *3. Wastewater Reuse*

Reuse projects will be considered on a case-by-case basis. Both direct and indirect reuse will be considered based on current practices and other opportunities, as appropriate.

***4. Management of Existing Water Supplies***

Use of existing supplies should be optimized, where possible, to meet new demands. Following is a discussion of how various types of existing supplies might be expanded.

***5. Conjunctive Use of Groundwater and Surface Water Supplies***

The conjunctive use of groundwater and surface water supplies may be considered when groundwater supplies are available and can be conjunctively used with surface water supplies. Applicable groundwater conservation district rules will be considered for such conjunctive systems.

***6. Acquisition of Available Existing Water Supplies***

In general, supplies should be owned by the water group with a need for additional supply or available to that group for purchase or permitting; however, the connection to existing supplies will be considered on a case-by-case basis. Acquisition of supplies includes purchasing existing groundwater wells or the right to surface water that another entity already has the physical and legal means to access. The ETRWPG will consider acquisition of supplies when an entity in need of supplies is adjacent to an entity with a surplus of supplies and both entities have shown an interest in the proposed acquisition.

***7. Development of New Water Supplies***

The development of new water supplies may be necessary to meet new water demands.

***8. Regional Water Supply Facilities***

A strategy of this type would include regional facilities or local facilities managed at a regional level.

***9. Seawater or Brackish Groundwater Desalination Facilities***

A strategy of this type would be large-scale and would serve local or regional brackish groundwater zones identified and designated under Texas Water Code §16.060(b)(5). The ETRWPG will consider desalination on a case-by-case basis.

***10. Marine Seawater Desalination Facilities***

A strategy of this type would be large-scale and would serve local or regional entities. The ETRWPG will consider desalination on a case-by-case basis.

***11. Voluntary Water Transfer***

This strategy type would include, but not be limited to, contracts, water marketing, regional water banks, sales, leases, options, subordination agreements, and financing agreements. Voluntary redistribution with the involved parties will be considered and the ETRWPG will come to a consensus on an approach. If the involved parties are not interested, this option will not be pursued. Voluntary subordination of existing water rights will be considered if the involved parties are amenable to the strategy. Alternatively,

the ETRWPG may recommend that the water right holder consider selling water under their water right to the willing buyer.

***12. Emergency Transfers***

Emergency Transfers of water will be considered in accordance with Texas Administrative Code §11.139 for temporary, interim supplies.

***13. Interbasin Transfers***

The ETRWPG will recommend interbasin transfers when necessary to transport water from the source to its destination. Interbasin transfers will be evaluated in accordance with current regulations.

***14. System Optimization***

New or additional system operations may be considered to optimize existing systems if they are feasible and the owner wishes to adopt such strategies. Existing operating policies will be considered during evaluation of available supplies.

***15. Reallocation of Reservoir Storage***

Reallocation of reservoir storage will be considered if the owner is amenable to reallocation and, where reallocation in federal reservoirs is being considered (such as from flood to conservation storage), an appropriate and willing local sponsor can be found to sponsor a federal study.

***16. Enhancements of Yields***

ETRWPG will consider yield enhancement projects, as appropriate, for the water source and identified need. Projects such as dredging and application for additional water rights, where permissible, will be considered.

***17. Improvements of Water Quality***

Water quality improvement projects will be considered for municipal supplies that bring the existing water supply into compliance with state and federal regulations. General water quality projects may be considered if they improve the usability of the water source to help meet demands.

***18. New Surface Water Supply***

New surface water resources that can be permitted will be considered, provided a reasonable amount of supply to meet the identified need is located within a reasonable distance of the end users, and recommended new sources would be expected to provide water supplies at a reasonable cost.

***19. New Groundwater Supply***

The ETRWPG will consider groundwater supplies in areas where additional groundwater is available.

***20. Brush Control***

Brush control is not considered a cost effective water supply strategy in the ETRWPA due to the large amount of rainfall and lack of invasive brush species, and will not be considered as a WMS.

***21. Precipitation Enhancement***

The ETRWPA has an abundance of precipitation. Precipitation enhancement will not be considered as a WMS.

***22. Aquifer Storage and Recovery***

Aquifer storage and recovery (ASR) will be considered where the structure of the aquifer is such that this method is applicable. The ETRWPG will consider an ASR project if an ASR study has already been performed.

***23. Cancellation of Water Rights***

The ETRWPG will generally not pursue water right cancellation as a means of obtaining additional water supplies. Instead, the ETRWPG will recommend that the water right holder consider selling water under their water right to the willing buyer.

***24. Rainwater Harvesting***

Rainwater Harvesting has not historically been considered for Region I as a feasible WMS. The ETRWPG will consider rainwater harvesting for projects with a project sponsor.

**SELECTIONS FOR TASK 5B EVALUATION**

The process for selection of the WMSs is described as follows:

1. Define groupings or common areas with supply deficiencies.
2. Develop a comprehensive list of potentially feasible strategies, per screening process.
3. Contact potential suppliers/WUGs to determine current strategies under consideration.
4. Prepare qualitative rating based on cost, reliability, environmental impact, impacts on other water resources, impacts on agricultural and natural resources, and political acceptability for the various strategies.
5. Select one or more strategies as appropriate for each need or group.
6. Contact each WUG with a need and confirm the selected strategies are acceptable.
7. Review the Region I 2016 Regional Water Plan WMSs with project sponsors to update the information and verify whether or not the entity would like to carry the strategy forward into the 2021 Plan.
8. Present proposed WMSs to the ETRWPG in a public meeting for discussion, modification, and approval.

# Attachment 12

# Potentially Feasible Water Management Strategies to Date

# 2021 Potentially Feasible Water Management Strategies to Date
## August 15, 2018

| County | Water User Group | WMS Type | Source Name (if applicable) | Strategy Source |
|---|---|---|---|---|
| ANDERSON | STEAM ELECTRIC POWER, ANDERSON | EXISTING SURPLUS | PALESTINE LAKE/RESERVOIR | 2016 Plan |
| ANDERSON | STEAM ELECTRIC POWER, ANDERSON | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| ANDERSON | THE CONSOLIDATED WSC | EXISTING AVAILABILITY | HOUSTON COUNTY LAKE/RESERVOIR | 2016 Plan |
| ANDERSON | THE CONSOLIDATED WSC | EXISTING AVAILABILITY | HOUSTON COUNTY LAKE/RESERVOIR | 2016 Plan |
| ANGELINA | LUFKIN | EXISTING AVAILABILITY | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2016 Plan |
| ANGELINA | MANUFACTURING, ANGELINA | EXISTING SURPLUS | KURTH LAKE/RESERVOIR | 2016 Plan |
| ANGELINA | MANUFACTURING, ANGELINA | EXISTING AVAILABILITY | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2016 Plan |
| ANGELINA | MANUFACTURING, ANGELINA | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| ANGELINA | MINING, ANGELINA | AVAILABILITY INCREASE | NECHES RUN-OF-RIVER | 2016 Plan, 2021 Need |
| ANGELINA | MINING, ANGELINA | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| CHEROKEE | ALTO | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| CHEROKEE | ALTO RURAL WSC | DEMAND REDUCTION | | 2016 Plan |
| CHEROKEE | ALTO RURAL WSC | EXISTING AVAILABILITY | CARRIZO-WILCOX AQUIFER | 2016 Plan |
| CHEROKEE | ALTO RURAL WSC | MUNICIPAL CONSERVATION | | 2016 Need |
| CHEROKEE | ALTO RURAL WSC | NEW GROUNDWATER SUPPLY | CARRIZO-WILCOX AQUIFER | 2016 Need |
| CHEROKEE | BULLARD | DEMAND REDUCTION | | 2016 Plan, 2021 Need |
| CHEROKEE | BULLARD | DEMAND REDUCTION | | 2016 Plan, 2021 Need |
| CHEROKEE | COUNTY-OTHER, CHEROKEE | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| CHEROKEE | JACKSONVILLE | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| CHEROKEE | MINING, CHEROKEE | AVAILABILITY INCREASE | NECHES RUN-OF-RIVER | 2016 Plan, 2021 Need |
| CHEROKEE | MINING, CHEROKEE | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| CHEROKEE | NEW SUMMERFIELD | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| CHEROKEE | NORTH CHEROKEE WSC | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| CHEROKEE | RUSK | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| CHEROKEE | RUSK RURAL WSC | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| CHEROKEE | STEAM ELECTRIC POWER, CHEROKEE | AVAILABILITY INCREASE | NECHES RUN-OF-RIVER | 2016 Plan |
| CHEROKEE | TROUP | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| HENDERSON | ATHENS | MUNICIPAL CONSERVATION | | 2016 Need |
| HENDERSON | ATHENS | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| HENDERSON | CHANDLER | DEMAND REDUCTION | | 2016 Plan |
| HENDERSON | CHANDLER | DEMAND REDUCTION | | 2016 Plan |
| HENDERSON | CHANDLER | EXISTING SURPLUS | PALESTINE LAKE/RESERVOIR | 2016 Plan |
| HENDERSON | CHANDLER | MUNICIPAL CONSERVATION | | 2016 Need |
| HENDERSON | CHANDLER | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| HENDERSON | COUNTY-OTHER, HENDERSON | Purchase from Provider (Voluntary Transfer) | | 2021 Need |
| HENDERSON | EDOM WSC | Purchase from Provider (Voluntary Transfer) | | 2021 Need |
| HENDERSON | IRRIGATION, HENDERSON | AVAILABILITY INCREASE | INDIRECT REUSE | 2016 Plan, 2021 Need |
| HENDERSON | IRRIGATION, HENDERSON | EXISTING AVAILABILITY | ATHENS LAKE/RESERVOIR | 2016 Plan, 2021 Need |
| HENDERSON | LIVESTOCK, HENDERSON | AVAILABILITY INCREASE | INDIRECT REUSE | 2016 Plan |
| HENDERSON | LIVESTOCK, HENDERSON | AVAILABILITY INCREASE | INDIRECT REUSE | 2016 Plan |
| HENDERSON | LIVESTOCK, HENDERSON | EXISTING AVAILABILITY | ATHENS LAKE/RESERVOIR | 2016 Plan |
| HENDERSON | LIVESTOCK, HENDERSON | EXISTING AVAILABILITY | ATHENS LAKE/RESERVOIR | 2016 Plan |
| HENDERSON | MINING, HENDERSON | Purchase from Provider (Voluntary Transfer) | | 2021 Need |
| HOUSTON | CROCKETT | Purchase from Provider (Voluntary Transfer) | | 2021 Need |
| HOUSTON | IRRIGATION, HOUSTON | EXISTING AVAILABILITY | YEGUA-JACKSON AQUIFER | 2016 Plan |
| HOUSTON | IRRIGATION, HOUSTON | EXISTING AVAILABILITY | YEGUA-JACKSON AQUIFER | 2016 Plan |
| HOUSTON | IRRIGATION, HOUSTON | NEW GROUNDWATER SUPPLY | YEGUA-JACKSON AQUIFER | 2016 Need |
| HOUSTON | MINING, HOUSTON | EXISTING AVAILABILITY | HOUSTON COUNTY LAKE/RESERVOIR | 2016 Plan |
| HOUSTON | MINING, HOUSTON | EXISTING AVAILABILITY | HOUSTON COUNTY LAKE/RESERVOIR | 2016 Plan |
| HOUSTON | TDCJ EASTHAM UNIT | Purchase from Provider (Voluntary Transfer) | | 2021 Need |
| HOUSTON | THE CONSOLIDATED WSC | EXISTING AVAILABILITY | HOUSTON COUNTY LAKE/RESERVOIR | 2016 Plan |
| HOUSTON | THE CONSOLIDATED WSC | EXISTING AVAILABILITY | HOUSTON COUNTY LAKE/RESERVOIR | 2016 Plan |
| JASPER | MANUFACTURING, JASPER | EXISTING SURPLUS | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2016 Plan |

| County | Water User Group | WMS Type | Source Name (if applicable) | Strategy Source |
|---|---|---|---|---|
| JASPER | MANUFACTURING, JASPER | EXISTING SURPLUS | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2016 Plan |
| JASPER | MANUFACTURING, JASPER | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| JEFFERSON | BEAUMONT | DEMAND REDUCTION | | 2016 Plan, 2021 Need |
| JEFFERSON | BEAUMONT | DEMAND REDUCTION | | 2016 Plan, 2021 Need |
| JEFFERSON | BEAUMONT | DEMAND REDUCTION | | 2016 Plan, 2021 Need |
| JEFFERSON | BEAUMONT | DEMAND REDUCTION | | 2016 Plan, 2021 Need |
| JEFFERSON | BEAUMONT | DEMAND REDUCTION | | 2016 Plan, 2021 Need |
| JEFFERSON | BEAUMONT | DEMAND REDUCTION | | 2016 Plan, 2021 Need |
| JEFFERSON | BEAUMONT | MUNICIPAL CONSERVATION | | 2016 Need, 2021 Need |
| JEFFERSON | COUNTY-OTHER, JEFFERSON | EXISTING SURPLUS | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2016 Plan |
| JEFFERSON | COUNTY-OTHER, JEFFERSON | EXISTING SURPLUS | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2016 Plan |
| JEFFERSON | COUNTY-OTHER, JEFFERSON | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| JEFFERSON | COUNTY-OTHER, JEFFERSON | EXISTING SURPLUS | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2016 Plan |
| JEFFERSON | MANUFACTURING, JEFFERSON | EXISTING SURPLUS | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2016 Plan |
| JEFFERSON | MANUFACTURING, JEFFERSON | EXISTING SURPLUS | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2016 Plan |
| JEFFERSON | MANUFACTURING, JEFFERSON | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| JEFFERSON | PORT ARTHUR | DEMAND REDUCTION | | 2016 Plan |
| JEFFERSON | PORT ARTHUR | DEMAND REDUCTION | | 2016 Plan |
| JEFFERSON | PORT ARTHUR | DEMAND REDUCTION | | 2016 Plan |
| JEFFERSON | PORT ARTHUR | DEMAND REDUCTION | | 2016 Plan |
| JEFFERSON | PORT ARTHUR | DEMAND REDUCTION | | 2016 Plan |
| JEFFERSON | PORT ARTHUR | DEMAND REDUCTION | | 2016 Plan |
| JEFFERSON | PORT ARTHUR | MUNICIPAL CONSERVATION | | 2016 Need |
| JEFFERSON | STEAM ELECTRIC POWER, JEFFERSON | EXISTING SURPLUS | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2016 Plan, 2021 Need |
| JEFFERSON | STEAM ELECTRIC POWER, JEFFERSON | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| NACOGDOCHES | COUNTY-OTHER, NACOGDOCHES | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| NACOGDOCHES | COUNTY-OTHER, NACOGDOCHES | EXISTING AVAILABILITY | LAKE NACONICHE/RESERVOIR | 2016 Plan |
| NACOGDOCHES | D & M WSC | NEW GROUNDWATER SUPPLY | | 2016 Need |
| NACOGDOCHES | D&M WSC | EXISTING AVAILABILITY | CARRIZO-WILCOX AQUIFER | 2016 Plan |
| NACOGDOCHES | LIVESTOCK, NACOGDOCHES | EXISTING AVAILABILITY | CARRIZO-WILCOX AQUIFER | 2016 Plan, 2021 Need |
| NACOGDOCHES | LIVESTOCK, NACOGDOCHES | NEW GROUNDWATER SUPPLY | CARRIZO-WILCOX AQUIFER | 2016 Need, 2021 Need |
| NACOGDOCHES | MINING, NACOGDOCHES | AVAILABILITY INCREASE | NECHES RUN-OF-RIVER | 2016 Plan, 2021 Need |
| NACOGDOCHES | MINING, NACOGDOCHES | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| NACOGDOCHES | NACOGDOCHES | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| NACOGDOCHES | STEAM ELECTRIC POWER, NACOGDOCHES | EXISTING AVAILABILITY | HOUSTON COUNTY LAKE/RESERVOIR | 2016 Plan |
| NACOGDOCHES | STEAM ELECTRIC POWER, NACOGDOCHES | EXISTING SURPLUS | CARRIZO-WILCOX AQUIFER | 2016 Plan |
| NACOGDOCHES | STEAM ELECTRIC POWER, NACOGDOCHES | EXISTING SURPLUS | NACOGDOCHES LAKE/RESERVOIR | 2016 Plan |
| NACOGDOCHES | STEAM ELECTRIC POWER, NACOGDOCHES | EXISTING AVAILABILITY | CARRIZO-WILCOX AQUIFER | 2016 Plan |
| NACOGDOCHES | STEAM ELECTRIC POWER, NACOGDOCHES | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| NACOGDOCHES | STEAM ELECTRIC POWER, NACOGDOCHES | NEW GROUNDWATER SUPPLY | CARRIZO-WILCOX AQUIFER | 2016 Need |
| NEWTON | BROOKELAND FWSD | Purchase from Provider (Voluntary Transfer) | | 2021 Need |
| NEWTON | MINING, NEWTON | EXISTING AVAILABILITY | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan, 2021 Need |
| NEWTON | MINING, NEWTON | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| NEWTON | STEAM ELECTRIC POWER, NEWTON | EXISTING AVAILABILITY | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan |
| NEWTON | STEAM ELECTRIC POWER, NEWTON | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| ORANGE | IRRIGATION, ORANGE | EXISTING AVAILABILITY | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan, 2021 Need |
| ORANGE | IRRIGATION, ORANGE | EXISTING AVAILABILITY | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan, 2021 Need |
| ORANGE | IRRIGATION, ORANGE | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| ORANGE | MANUFACTURING, ORANGE | EXISTING AVAILABILITY | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan |
| ORANGE | MANUFACTURING, ORANGE | EXISTING AVAILABILITY | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan |
| ORANGE | MANUFACTURING, ORANGE | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| ORANGE | PORT ARTHUR | DEMAND REDUCTION | | 2016 Plan |
| ORANGE | PORT ARTHUR | DEMAND REDUCTION | | 2016 Plan |
| ORANGE | PORT ARTHUR | DEMAND REDUCTION | | 2016 Plan |
| ORANGE | STEAM ELECTRIC POWER, ORANGE | EXISTING AVAILABILITY | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan |
| ORANGE | STEAM ELECTRIC POWER, ORANGE | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |

| County | Water User Group | WMS Type | Source Name (if applicable) | Strategy Source |
|---|---|---|---|---|
| PANOLA | LIVESTOCK, PANOLA | Purchase from Provider (Voluntary Transfer) | | 2021 Need |
| PANOLA | MANUFACTURING, PANOLA | EXISTING SURPLUS | CARRIZO-WILCOX AQUIFER | 2016 Plan |
| PANOLA | MANUFACTURING, PANOLA | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| RUSK | HENDERSON | AVAILABILITY INCREASE | STRIKER LAKE/RESERVOIR | 2016 Plan |
| RUSK | HENDERSON | AVAILABILITY INCREASE | STRIKER LAKE/RESERVOIR | 2016 Plan |
| RUSK | LIVESTOCK, RUSK | Purchase from Provider (Voluntary Transfer) | | 2021 Need |
| RUSK | MANUFACTURING, RUSK | EXISTING AVAILABILITY | CARRIZO-WILCOX AQUIFER | 2016 Plan |
| RUSK | MANUFACTURING, RUSK | EXISTING AVAILABILITY | CARRIZO-WILCOX AQUIFER | 2016 Plan |
| RUSK | MINING, RUSK | AVAILABILITY INCREASE | NECHES RUN-OF-RIVER | 2016 Plan, 2021 Need |
| RUSK | MINING, RUSK | AVAILABILITY INCREASE | NECHES RUN-OF-RIVER | 2016 Plan, 2021 Need |
| RUSK | MINING, RUSK | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| RUSK | NEW LONDON | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| RUSK | NEW LONDON | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| RUSK | OVERTON | DEMAND REDUCTION | | 2016 Plan |
| RUSK | OVERTON | DEMAND REDUCTION | | 2016 Plan |
| RUSK | OVERTON | DEMAND REDUCTION | | 2016 Plan |
| RUSK | OVERTON | DEMAND REDUCTION | | 2016 Plan |
| RUSK | OVERTON | DEMAND REDUCTION | | 2016 Plan |
| RUSK | OVERTON | MUNICIPAL CONSERVATION | | 2016 Need |
| RUSK | OVERTON | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| RUSK | STEAM ELECTRIC POWER, RUSK | EXISTING SURPLUS | SABINE RUN-OF-RIVER | 2016 Plan, 2021 Need |
| RUSK | STEAM ELECTRIC POWER, RUSK | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| SABINE | G M WSC | EXISTING SURPLUS | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan |
| SAN AUGUSTINE | MINING, SAN AUGUSTINE | AVAILABILITY INCREASE | NECHES RUN-OF-RIVER | 2016 Plan, 2021 Need |
| SAN AUGUSTINE | MINING, SAN AUGUSTINE | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| SHELBY | CENTER | EXISTING SURPLUS | CENTER LAKE/RESERVOIR | 2016 Plan |
| SHELBY | CENTER | EXISTING SURPLUS | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan |
| SHELBY | LIVESTOCK, SHELBY | EXISTING SURPLUS | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan, 2021 Need |
| SHELBY | LIVESTOCK, SHELBY | EXISTING SURPLUS | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan, 2021 Need |
| SHELBY | LIVESTOCK, SHELBY | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| SMITH | ARP | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| SMITH | BULLARD | DEMAND REDUCTION | | 2016 Plan, 2021 Need |
| SMITH | BULLARD | DEMAND REDUCTION | | 2016 Plan, 2021 Need |
| SMITH | BULLARD | EXISTING SURPLUS | PALESTINE LAKE/RESERVOIR | 2016 Plan, 2021 Need |
| SMITH | BULLARD | MUNICIPAL CONSERVATION | | 2016 Need, 2021 Need |
| SMITH | BULLARD | NEW GROUNDWATER SUPPLY | CARRIZO-WILCOX AQUIFER | 2016 Need, 2021 Need |
| SMITH | BULLARD | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| SMITH | CRYSTAL SYSTEMS TEXAS | MUNICIPAL CONSERVATION | | 2016 Need, 2021 Need |
| SMITH | CRYSTAL SYSTEMS TEXAS | NEW GROUNDWATER SUPPLY | CARRIZO-WILCOX AQUIFER | 2016 Need, 2021 Need |
| SMITH | CRYSTAL SYSTEMS TEXAS | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| SMITH | JACKSON WSC | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| SMITH | LINDALE | MUNICIPAL CONSERVATION | | 2016 Need, 2021 Need |
| SMITH | LINDALE | NEW GROUNDWATER SUPPLY | CARRIZO-WILCOX AQUIFER | 2016 Need, 2021 Need |
| SMITH | LINDALE | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| SMITH | LINDALE RURAL WSC | Purchase from Provider (Voluntary Transfer) | | 2021 Need |
| SMITH | MANUFACTURING, SMITH | EXISTING SURPLUS | PALESTINE LAKE/RESERVOIR | 2016 Plan |
| SMITH | MANUFACTURING, SMITH | EXISTING SURPLUS | PALESTINE LAKE/RESERVOIR | 2016 Plan |
| SMITH | MANUFACTURING, SMITH | NEW GROUNDWATER SUPPLY | CARRIZO-WILCOX AQUIFER | 2016 Need |
| SMITH | MANUFACTURING, SMITH | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| SMITH | MINING, SMITH | NEW GROUNDWATER SUPPLY | CARRIZO-WILCOX AQUIFER | 2016 Need, 2021 Need |
| SMITH | MINING, SMITH | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need, 2021 Need |
| SMITH | OVERTON | DEMAND REDUCTION | | 2016 Plan |
| SMITH | OVERTON | DEMAND REDUCTION | | 2016 Plan |
| SMITH | OVERTON | DEMAND REDUCTION | | 2016 Plan |
| SMITH | OVERTON | DEMAND REDUCTION | | 2016 Plan |
| SMITH | OVERTON | DEMAND REDUCTION | | 2016 Plan |

| County | Water User Group | WMS Type | Source Name (if applicable) | Strategy Source |
|---|---|---|---|---|
| SMITH | R P M WSC | MUNICIPAL CONSERVATION | | 2016 Need |
| SMITH | R P M WSC | NEW GROUNDWATER SUPPLY | CARRIZO-WILCOX AQUIFER | 2016 Need |
| SMITH | R P M WSC | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| SMITH | TROUP | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| SMITH | WHITEHOUSE | AVAILABILITY INCREASE | COLUMBIA LAKE/RESERVOIR | 2016 Plan |
| TRINITY | IRRIGATION, TRINITY | EXISTING SURPLUS | YEGUA-JACKSON AQUIFER | 2016 Plan |
| TRINITY | IRRIGATION, TRINITY | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2016 Need |
| TYLER | TYLER COUNTY WSC | Purchase from Provider (Voluntary Transfer) | | 2021 Need |
| TYLER | WOODVILLE | DEMAND REDUCTION | | 2016 Plan |
| TYLER | WOODVILLE | DEMAND REDUCTION | | 2016 Plan |
| VARIES | MULTIPLE ENTITIES | MUNICIPAL CONSERVATION | | 2021 Requirement |
| VARIES | MULTIPLE ENTITIES | IRRIGATION CONSERVATION | | 2021 Requirement |
| VARIES | MULTIPLE ENTITIES | REUSE (DIRECT AND INDIRECT, POTABLE AND NON-POTABLE) | | 2021 Requirement |
| VARIES | MULTIPLE ENTITIES | PURCHASE FROM PROVIDER (VOLUNTARY TRANSFER) | | 2021 Requirement |
| | HOUSTON COUNTY WCID #1 | EXISTING AVAILABILITY | HOUSTON COUNTY LAKE/RESERVOIR | 2016 Plan |
| | HOUSTON COUNTY WCID #1 | EXISTING AVAILABILITY | CARRIZO-WILCOX AQUIFER | 2016 Plan |
| | HOUSTON COUNTY WCID #1 | AVAILABILITY INCREASE | CARRIZO-WILCOX AQUIFER | 2016 Plan |
| | LOWER NECHES VALLEY AUTHORITY | EXISTING AVAILABILITY | SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM | 2016 Plan |
| | LOWER NECHES VALLEY AUTHORITY | EXISTING SURPLUS | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan |
| | SABINE RIVER AUTHORITY | EXISTING AVAILABILITY | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan |
| | SABINE RIVER AUTHORITY | AVAILABILITY INCREASE | TOLEDO BEND LAKE/RESERVOIR | 2016 Plan |

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# Attachment 13a

## Water Availability Models and Runs

Hydrologic Variance Request

**Region I**
East Texas Regional
Water Planning Group

**Kelley Holcomb, Chair**
**P.O. Box 635030**
**Nacogdoches TX 75963**
**936-633-7543**

July 3, 2018

Mr. Jeff Walker
Executive Administrator
Texas Water Development Board
1700 North Congress Avenue
Austin, Texas 78701

Re: Request for Modifications to Water Availability Models for Planning Purposes in the East Texas Regional Water Planning Area

Dear Mr. Walker,

On May 16, 2018, the East Texas Regional Water Planning Group (ETRWPG) considered and approved an approach to water availability modeling for surface water supplies for the current round of planning. The purpose of this letter is to inform the Texas Water Development Board (TWDB) of the approach approved at that time.

The East Texas Regional Water Planning Area (ETRWPA) uses supplies from four river basins, Trinity, Neches, Sabine, and Neches-Trinity. Following are highlights of the four basin models and the changes made to the models to determine the available surface water supplies for the ETRWPA in this round of regional water planning:

- All models will incorporate updated area-capacity relationships to account for sedimentation in major reservoirs, as required by "Exhibit C: General Guidelines for Fifth Cycle of Regional Water Plan Development."

- The ETRWPG will use the Neches-Trinity Coastal Basin WAM Run 3, as developed by TCEQ, for surface water supplies in that basin. No changes are proposed to the Neches-Trinity WAM.

- Changes to the Trinity WAM were made as part of the Region C planning efforts. The ETRWPG adopted and retained the changes made to the Trinity WAM. For surface water supplies located in the Trinity River Basin, the ETRWPG will use the updated Trinity Basin WAM developed for Region C.

- The TCEQ updated the Neches River WAM in 2012. Following review of the Run 3 WAM files for the basin, the ETRWPG requests approval to update the Neches River WAM to more accurately represent current operating conditions in the basin. The ETRWPG intends to use the Neches River WAM Full Authorization run (Run 3) as developed by TCEQ in 2012 with modifications to address the following:

- Subordination of rights associated with Sam Rayburn Reservoir and Lake B.A. Steinhagen.

- Hydropower generation at Sam Rayburn Reservoir and regulation of releases by Lake B. A. Steinhagen.

- System operations, where appropriate.

- Incorrect representation of environmental flow standards related to Permit No. 5585.

- Minimum operating elevation in Sam Rayburn Reservoir.

- The TCEQ updated the Sabine River WAM in 2015. Following review of the Run 3 WAM files, the ETRWPG requests approval to update these models to more accurately represent current operating conditions in the basin. The ETRWPG intends to use the Sabine River WAM Full Authorization run (Run 3), as developed by TCEQ in 2015, to determine surface water supplies in that basin. The changes made to the TCEQ-approved WAM by the ETRWPG include the following:

  - Area-capacity relationships updated to reflect current and future sedimentation conditions for major reservoirs in the basin.

  - The canal water rights owned by Sabine River Authority (SRA) in the lower basin were modeled as being backed up by releases from Toledo Bend Reservoir.

  - The remainder of the yield of Toledo Bend evaluated assuming all diversions were taken lakeside.

  - Hydropower operations at Toledo Bend were excluded during the determination of total available supply from the lake. Hydropower operations, as modeled by TCEQ, were included in the evaluation of supplies for all other reservoirs and run-of-river supplies.

    Supplies for Lake Pinkston in the Neches River Basin and Lake Center in the Sabine Basin were determined separately from the WAMs; instead, the supplies are based on the 2016 study completed by the City of Center.

- For the City of Beaumont, available supply will be evaluated based on daily time-step maximum diversion rates and current infrastructure. The City of Beaumont is the only major municipal water user with a run-of-the river water right. Other major users that receive water from run-of-the river water rights purchase water either from the Lower

Neches Valley Authority or the Sabine River Authority, or they use saline water. The purchased water is backed up by stored water that is owned and operated by the river authorities, making this supply less vulnerable to drought. This approach was applied in the development of supplies for the 2016 East Texas Regional Water Plan.

As intended by Senate Bill 1, the assessment of surface water availability in the ETRWPA will be conducted to accurately reflect water supplies that are available for use. Should new information become available within the project timeline, this will be incorporated into the supply analyses. Examples of such changes include new water supply studies for specific sources, updates to the area-capacity relationships for reservoirs with new volumetric surveys, new water rights permits, and revised operating policies and/or contractual agreements.

Thank you for your attention to this matter. Please call me if you have any questions regarding our request.

Sincerely,

Kelley Holcomb, Chair
East Texas Regional Water Planning Group

cc: Mr. Lann Bookout, Texas Water Development Board
Ms. Stacy Corley, City of Nacogdoches
Mr. Rex Hunt, PE, Alan Plummer Associates, Inc.
Ms. Cynthia Syvarth, PE, Alan Plummer Associates, Inc.
Ms. Spandana Tummuri, PE, Freese and Nichols, Inc.

# Attachment 13b

## Water Availability Models and Runs

WAM Model Summary

***Summary of Model Runs to Determine Surface Water Source Availability***

| Model Information | | | | | Execution | | | |
|---|---|---|---|---|---|---|---|---|
| Modified Model Root File Name | Run 3 Version Date | Description | EA Approval Date | DB22 Source Name | Model | Model Version | Modeler | Date |
| **Neches-Trinity Basin** | | | | | | | | |
| NT3 | 1/2/2013 | n/a | n/a | Neches-Trinity Run-of-River | WRAP | 2015 | FNI | 3/8/2018 |
| **Trinity Basin** | | | | | | | | |
| 2021RegCBase_TrinCurrent_RORirr | 10/7/2014 | Modifications by Region C RWPG | pending | Trinity Run-of-River | WRAP | 2015 | FNI | 4/26/2018 |
| 2021RegCBase_TrinCurrent_HoustonCo | 10/7/2014 | Modifications by Region C RWPG | pending | Houston County Lake | WRAP | 2015 | FNI | 5/1/2018 |
| 2021RegCBase_Trin2070_HoustonCo | 10/7/2014 | Modifications by Region C RWPG; Sedimentation for 2070 | pending | Houston County Lake | WRAP | 2015 | FNI | 5/1/2018 |
| **Neches Basin** | | | | | | | | |
| neches_regioni_20180625 | 10/1/2012 | Modified Neches WAM | pending | Neches Run-of-River | WRAP | 2015 | FNI | 6/25/2018 |
| neches_2020_20180627 | 10/1/2012 | Modified Neches WAM; Sedimentation for 2020 | pending | Athens Lake/Reservoir<br>Jacksonville Lake/Reservoir<br>Nacogdoches Lake/Reservoir<br>Tyler Lake/Reservoir<br>Columbia Lake/Reservoir<br>Kurth Lake/Reservoir<br>Striker Lake/Reservoir<br>Palestine Lake/Reservoir<br>Sam Rayburn-Steinhagen Lake/Reservoir System<br>Timpson Lake/Reservoir<br>Bellwood Lake/Reservoir<br>Rusk City Lake/Reservoir<br>San Augustine Lake/Reservoir | WRAP | 2015 | FNI | 6/28/2018 |
| neches_2030_20180627 | | Modified Neches WAM; Sedimentation for 2030 | | | | | | |
| neches_2040_20180627 | | Modified Neches WAM; Sedimentation for 2040 | | | | | | |
| neches_2050_20180627 | | Modified Neches WAM; Sedimentation for 2050 | | | | | | |
| neches_2060_20180627 | | Modified Neches WAM; Sedimentation for 2060 | | | | | | |
| neches_2070_20180627 | | Modified Neches WAM; Sedimentation for 2070 | | | | | | |
| neches3 | 8/20/2008 | Neches WAM Run 3 (prior version) run for City of Center study | 2016 RWP* | Pinkston Lake/Reservoir* | WRAP | 2014 | FNI | 2014 |
| **Sabine Basin** | | | | | | | | |
| sabine3_ROR | 7/6/2015 | Sabine WAM Run 3 | pending | Sabine Run-of-River | WRAP | 2018 | FNI | 7/9/2018 |
| sabine3_current | 7/6/2015 | Sabine WAM Run 3; Reservoir conditions updated to most recent survey. ** | pending | Cherokee Lake/Reservoir<br>Martin Lake/Reservoir | WRAP | 2018 | FNI | 6/29/2018 |
| sabine3_2070 | | Sabine WAM Run 3; Sedimentation for 2070 | | Murvaul Lake/Reservoir | | | | |
| sabine3_2020_ToledoBendFY | 7/6/2015 | Sabine WAM Run 3; Reservoir conditions updated to most recent survey. ** Firm yield evaluated for Toledo Bend as described in memorandum. | pending | Toledo Bend Lake/Reservoir | WRAP | 2018 | FNI | 6/29/2018 |
| sabine3_2070_ToledoBendFY | | Sabine WAM Run 3; Sedimentation for 2070. Firm yield evaluated for Toledo Bend as described in memorandum. | | | WRAP | 2018 | FNI | 6/29/2018 |
| sabine3 | 6/17/2004 | Sabine WAM Run 3 (prior version) run for City of Center study | 2016 RWP* | * | WRAP | 2014 | FNI | 2014 |

*Notes*

**Firm yields for Pinkston Reservoir and Lake Center were determined in a separate study conducted for the City of Center by FNI using previous WAM Run 3 versions. These model runs were approved for use in the 2016 RWP.*

***Reservoir firm yields in the Sabine River Basin were interpolated between the year of the most current survey and 2070 to determine supplies for 2020 - 2060.*

# Attachment 14

# Groundwater Availability Determination Methodology

## EAST TEXAS REGIONAL WATER PLANNING AREA
## GROUNDWATER SOURCE AVAILABILITY DETERMINATION METHODOLOGY

| Water Supply Source | County | Basin | Methodology |
|---|---|---|---|
| Carrizo-Wilcox Aquifer | Anderson | Neches | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Anderson | Trinity | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Angelina | Neches | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Cherokee | Neches | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Henderson | Neches | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Houston | Neches | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Houston | Trinity | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Nacagdoches | Neches | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Panola | Cypress | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Panola | Sabine | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Rusk | Neches | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Rusk | Sabine | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Sabine | Neches | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Sabine | Sabine | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | San Augustine | Neches | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | San Augustine | Sabine | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Shelby | Neches | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Shelby | Sabine | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Smith | Neches | MAG - GAM Run 17-024 |
| Carrizo-Wilcox Aquifer | Trinity | Neches | MAG - GAM Run 17-024 |
| Gulf Coast Aquifer | Hardin | Neches | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Hardin | Trinity | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Jasper | Neches | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Jasper | Sabine | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Jefferson | Neches | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Jefferson | Neches-Trinity | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Newton | Neches | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Newton | Sabine | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Orange | Neches | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Orange | Neches-Trinity | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Orange | Sabine | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Polk | Neches | MAG-GAM Run 16-024 |
| Gulf Coast Aquifer | Sabine | Sabine | GCD Non-Relevant (TWDB Modeled Null), RWPG Assigned Max. 8-Year Historical Annual Use |
| Gulf Coast Aquifer | Tyler | Neches | MAG-GAM Run 16-024 |
| Other Aquifer | Anderson | Trinity | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Angelina | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Cherokee | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Hardin | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Henderson | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Henderson | Trinity | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Houston | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Houston | Trinity | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Jefferson | Neches-Trinity | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Nacogdoches | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Orange | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Orange | Sabine | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Panola | Sabine | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Polk | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Rusk | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Rusk | Sabine | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Sabine | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Sabine | Sabine | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | San Augustine | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | San Augustine | Sabine | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Shelby | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Shelby | Sabine | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Smith | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Other Aquifer | Trinity | Neches | RWPG Assigned Max. 8-Year Historical Annual Use |
| Queen City Aquifer | Anderson | Neches | MAG - GAM Run 17-024 |
| Queen City Aquifer | Anderson | Trinity | MAG - GAM Run 17-024 |
| Queen City Aquifer | Angelina | Neches | GCD Non-Relevant (TWDB Modeled) |
| Queen City Aquifer | Cherokee | Neches | MAG - GAM Run 17-024 |

| | | | |
|---|---|---|---|
| Queen City Aquifer | Henderson | Neches | MAG - GAM Run 17-024 |
| Queen City Aquifer | Houston | Neches | MAG - GAM Run 17-024 |
| Queen City Aquifer | Houston | Trinity | MAG - GAM Run 17-024 |
| Queen City Aquifer | Nacogdoches | Neches | MAG - GAM Run 17-024 |
| Queen City Aquifer | Rusk | Neches | GCD Non-Relevant (TWDB Modeled) |
| Queen City Aquifer | Rusk | Sabine | GCD Non-Relevant (TWDB Modeled) |
| Queen City Aquifer | Smith | Neches | MAG - GAM Run 17-024 |
| Queen City Aquifer | Trinity | Neches | GCD Non-Relevant (TWDB Modeled) |
| Sparta Aquifer | Anderson | Neches | GCD Non-Relevant (TWDB Modeled) |
| Sparta Aquifer | Anderson | Trinity | GCD Non-Relevant (TWDB Modeled) |
| Sparta Aquifer | Angelina | Neches | MAG - GAM Run 17-024 |
| Sparta Aquifer | Cherokee | Neches | GCD Non-Relevant (TWDB Modeled) |
| Sparta Aquifer | Houston | Neches | MAG - GAM Run 17-024 |
| Sparta Aquifer | Houston | Trinity | MAG - GAM Run 17-024 |
| Sparta Aquifer | Nacogdoches | Neches | MAG - GAM Run 17-024 |
| Sparta Aquifer | Sabine | Neches | MAG - GAM Run 17-024 |
| Sparta Aquifer | Sabine | Sabine | MAG - GAM Run 17-024 |
| Sparta Aquifer | San Augustine | Neches | MAG - GAM Run 17-024 |
| Sparta Aquifer | San Augustine | Sabine | MAG - GAM Run 17-024 |
| Sparta Aquifer | Trinity | Neches | MAG - GAM Run 17-024 |
| Yegua-Jackson Aquifer | Angelina | Neches | GCD Non-Relevant (TWDB Modeled) |
| Yegua-Jackson Aquifer | Houston | Neches | GCD Non-Relevant (TWDB Modeled) |
| Yegua-Jackson Aquifer | Houston | Trinity | GCD Non-Relevant (TWDB Modeled) |
| Yegua-Jackson Aquifer | Nacogdoches | Neches | GCD Non-Relevant (TWDB Modeled) |
| Yegua-Jackson Aquifer | Polk | Neches | GCD Non-Relevant (TWDB Modeled) |
| Yegua-Jackson Aquifer | Sabine | Neches | GCD Non-Relevant (TWDB Modeled) |
| Yegua-Jackson Aquifer | Sabine | Sabine | GCD Non-Relevant (TWDB Modeled) |
| Yegua-Jackson Aquifer | San Augustine | Neches | GCD Non-Relevant (TWDB Modeled) |
| Yegua-Jackson Aquifer | San Augustine | Sabine | GCD Non-Relevant (TWDB Modeled) |
| Yegua-Jackson Aquifer | Trinity | Neches | GCD Non-Relevant (TWDB Modeled) |
| Yegua-Jackson Aquifer | Tyler | Neches | GCD Non-Relevant (TWDB Modeled Null),<br>RWPG Assigned Max. 8-Year Historical Annual Use |

**METHODOLOGIES UTILIZED:**

| |
|---|
| MAG - GAM Run 17-024 |
| MAG - GAM Run 16-024 |
| GCD Non-Relevant (TWDB Modeled) |
| GCD Non-Relevant (TWDB Modeled Null) |
| RWPG Assigned Max. 8-Year Historical Annual Use |

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# Attachment 15

# Simplified Planning

**Wednesday, August 15, 2018, 10:00 AM**
**Nacogdoches Recreation Center**
**1112 North Street**
**Nacogdoches, Texas 75961**
**AGENDA**

1. Call to Order.
2. Invocation & Pledge of Allegiance.
3. Roll Call/Determination of Quorum.
4. Consideration and approval of the minutes of the May 16, 2018 meeting.
5. Report from City of Nacogdoches – Stacy Corley
6. Reports of adjoining regions activity:
    a. Region C – Vacant
    b. Region D – Leah Adams
    c. Region H – Scott Hall
7. Reports from Standing Committees:
    a. Executive Committee – Kelley Holcomb
    b. Finance Committee – Mark Dunn
    c. Bylaws Committee – David Alders
    d. Technical Committee – Scott Hall
    e. Nominations Committee – Monty Shank
8. Reports from other state agencies:
    a. Texas Water Development Board staff – Lann Bookout
    b. Texas Department of Parks & Wildlife – Terry Stelly
    c. Texas Department of Agriculture – Manual Martinez
    d. Texas Soil and Water Conservation Board – Rusty Ray
9. Report from consultant team – Rex Hunt
    a. Review of Round 5 Planning Schedule
    b. Review of Simplified Planning Process
10. Educational Presentation: Region C Drought Planning Methodologies – Brian McDonald
11. Public Comments. (limited to 3 minutes)
12. Consideration and approval of the FY 2019 Annual Budget.
13. Consideration and possible approval of a request for the East Texas Regional Water Planning Group Intent to utilize Simplified Planning for the Fifth Cycle of Regional Water Planning for the East Texas Regional Water Planning Area – Rex Hunt.
14. Consideration and approval for the East Texas Regional Water Planning Group Chair to submit the Task 4C Technical Memorandum to the Texas Water Development Board on or before September 10, 2018.
15. Consideration and possible approval of the appointment of new Voting Members – Monty Shank
16. Consideration and possible approval of a change in By-Laws to allow for the designation of an Alternate for Voting Members.
17. General Discussion.
18. Set Next Meeting Date.
19. Adjourn.

**Standing Committees**
**Wednesday, August 15, 2018, 9:30 AM**
**AGENDA**

The Region I East Texas Regional Water Planning Group has four standing committees. These committees function under the direction of the Region I East Texas Regional Water Planning Group as defined in the approved By-Laws. Committee meetings are held on an as needed basis. These Committees are:

Executive Committee **(no meeting)**

**Nominations Committee (9:30 AM)**

1. Discussion on vacancies on the RWPG

**By-Laws Committee (9:30 AM**)

1. Discussion on proposed changes in By-Laws relating to SB 347 85(R)

**Finance Committee (9:30 AM)**

1. Discussion on proposed FY 2019 budget

**Technical Committee (9:30AM)**

1. Review comments received to date from the public, Water User Groups, and Wholesale Water Providers that impact the Technical Memorandum
2. Review the draft Task 4C Technical Memorandum

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## Attachment 16

## Water and Groundwater Availability Model Summaries

**An Attachment 16 is not included in this memorandum;**
**See Attachments 13a and 13b for WAM Model Documentation.**

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## Attachment 17a

## Public Comments

Technical Memorandum Notice

**East Texas Regional Water Planning Group**
**Region I**
**10:00 AM Wednesday**
**August 15, 2018**
**C.L. Simon Recreation Center**
**1112 North Street, Nacogdoches, Texas 75961**

# NOTICE TO PUBLIC
## Notice of Meeting to Consider Approving Submittal of Technical Memorandum

To All Interested Parties:
The Region I Water Planning Group area includes all or part of the following counties: Anderson, Angelina, Cherokee, Hardin, Henderson (partial), Houston, Jasper, Jefferson, Nacogdoches, Newton, Orange, Panola, Polk (partial), Rusk, Sabine, San Augustine, Shelby, Smith (partial), Trinity (partial) and Tyler.

The Region I Water Planning Group (ETRWPG) will consider action to approve submission of a Technical Memorandum developed during preparation of the Region I 2021 Regional Water Plan, as included in Item 14 of the agenda. The memorandum details regional planning activities to date during development of the 2021 Regional Water Plan, including preliminary analyses of water demand projections, water supply availability and existing supplies, water needs, and the ETRWPG's declaration of intent whether to pursue or forgo simplified planning. The proposed memorandum will be discussed and acted upon during a public meeting of the ETRWPG on August 15, 2018. The proposed Technical Memorandum will be made available on the Region I website (www.etexwaterplan.org) upon completion prior to the public meeting and as well as following the meeting.

The ETRWPG will accept written and oral comments at the public meeting. Written comments from the public regarding the Technical Memorandum may also be submitted to the ETRWPG until August 30, 2018 for inclusion with the Technical Memorandum when submitted to the Texas Water Development Board. Comments may be submitted to ETRWPG by email to corleys@ci.nacogdoches.tx.us or by mail as follows:

Stacy Corley
City of Nacogdoches
Administrative Contact for Region I
P. O. Box 635030
Nacogdoches, Texas 75963

For additional information, please contact:

- Region I c/o Kelley Holcomb, General Manager, ANRA, P. O. Box 387 Lufkin, Texas 75902, telephone 936-633-7543, or email kholcomb@anra.org

Persons with disabilities who plan to attend this meeting and would like to request auxiliary aids or services are requested to contact Stacy Corley at (936) 559-2528 at least three business days prior to the meeting so that appropriate arrangements can be made.

## Attachment 17b

## Public Comments

Documentation of Public Comments Received

**An Attachment 17b is not included in this memorandum;**
**No public comments were received.**

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