

# Appendix 4-A

## Water Demands, Supplies, and Needs for Major Water Providers

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The new designation of “Major Water Providers” (MWPs) was established in rules for the development of the 2022 State Water Plan. Defining MWPs enables RWPGs to establish a more static list of large water providers for which they report information and to provide regional water planning groups with more flexibility in deciding which large water provider(s) they want to report information on in their regional water plans. MWPs represent wholesale water providers (WWPs) and/or water user groups (WUGs) that use, are responsible for developing, and/or are delivering significant quantities of water in the region. It is up to each region to decide which entities are designated as MWPs.

The East Texas Regional Water Planning Group (ETRWPG) identified 16 MWPs for the 2021 regional water plan, including:

- 1) Angelina and Neches River Authority (ANRA)
- 2) Angelina-Nacogdoches Water Control & Improvement District (A-N WCID) No. 1
- 3) Athens Municipal Water Authority (AMWA)
- 4) City of Beaumont
- 5) City of Carthage
- 6) City of Center
- 7) City of Jacksonville
- 8) City of Lufkin
- 9) City of Nacogdoches
- 10) City of Port Arthur
- 11) City of Tyler
- 12) Houston County Water Control & Improvement District (WCID) No. 1
- 13) Lower Neches Valley Authority (LNVA)
- 14) Panola County Freshwater Supply District (FWSD) No. 1
- 15) Sabine River Authority (SRA)
- 16) Upper Neches River Municipal Water Authority (UNRMWA)

Regional water plans must present the following data for MWPs, in accordance with the following Texas Water Code(s):

- a) Projected water demands by planning decade and category of use ([31 TAC §357.31\(b\)](#))
- b) Existing water supply analysis by category of use ([31 TAC §357.32\(g\)](#))
- c) Water supply needs analysis by category of use ([31 TAC §357.33\(b\)](#))
- d) Secondary water needs analysis where demand reduction and direct reuse WMSs are recommended, by MWP and decade ([31 TAC §357.33\(e\)](#))
- e) Recommended water management strategies (WMS) and recommended WMS projects, and results of all pfWMS evaluations ([31 TAC §357.35\(g\)\(1\)](#))



- f) Calculated management supply factor by entity and decade ([31 TAC §357.35\(g\)\(2\)](#))

The following appendix includes a summary of a) – d) above (projected water demands, existing water supplies, and first and secondary needs analysis by planning decade and category of use) for each MWP in the ETRWPA. The other requirements will be addressed in Appendix 5B-C.



**Angelina and Neches River Authority (ANRA)  
Demands, Supplies, and Needs**

| Water Use Type           | 2020           | 2030           | 2040           | 2050           | 2060           | 2070            |
|--------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| <b>Demands</b>           |                |                |                |                |                |                 |
| Municipal                | 5,600          | 5,600          | 5,600          | 5,600          | 5,600          | 5,600           |
| Irrigation               | 8,288          | 5,201          | 893            | 468            | 308            | 207             |
| Livestock                | 65             | 36,838         | 45,389         | 45,389         | 45,389         | 75,470          |
| Manufacturing            | 0              | 0              | 0              | 0              | 0              | 0               |
| Mining                   | 0              | 0              | 0              | 0              | 0              | 0               |
| Steam Electric Power     | 8,000          | 15,000         | 20,000         | 20,000         | 20,000         | 20,000          |
| <b>TOTAL</b>             | <b>21,953</b>  | <b>62,639</b>  | <b>71,882</b>  | <b>71,457</b>  | <b>71,297</b>  | <b>101,277</b>  |
| <b>Supplies</b>          |                |                |                |                |                |                 |
| Municipal                | 0              | 0              | 0              | 0              | 0              | 0               |
| Irrigation               | 0              | 0              | 0              | 0              | 0              | 0               |
| Livestock                | 65             | 70             | 70             | 70             | 70             | 70              |
| Manufacturing            | 0              | 0              | 0              | 0              | 0              | 0               |
| Mining                   | 0              | 0              | 0              | 0              | 0              | 0               |
| Steam Electric Power     | 0              | 0              | 0              | 0              | 0              | 0               |
| <b>TOTAL</b>             | <b>65</b>      | <b>70</b>      | <b>70</b>      | <b>70</b>      | <b>70</b>      | <b>70</b>       |
| <b>First Tier Needs</b>  |                |                |                |                |                |                 |
| Municipal                | -5,600         | -5,600         | -5,600         | -5,600         | -5,600         | -5,600          |
| Irrigation               | -8,288         | -5,201         | -893           | -468           | -308           | -207            |
| Livestock                | 0              | -36,768        | -45,319        | -45,319        | -45,319        | -75,400         |
| Manufacturing            | 0              | 0              | 0              | 0              | 0              | 0               |
| Mining                   | 0              | 0              | 0              | 0              | 0              | 0               |
| Steam Electric Power     | -8,000         | -15,000        | -20,000        | -20,000        | -20,000        | -20,000         |
| <b>TOTAL</b>             | <b>-21,888</b> | <b>-62,569</b> | <b>-71,812</b> | <b>-71,387</b> | <b>-71,227</b> | <b>-101,207</b> |
| <b>Second Tier Needs</b> |                |                |                |                |                |                 |
| Municipal                | -5,600         | -5,600         | -5,600         | -5,600         | -5,600         | -5,600          |
| Irrigation               | -8,288         | -5,201         | -893           | -468           | -308           | -207            |
| Livestock                | 0              | -36,768        | -45,319        | -45,319        | -45,319        | -75,400         |
| Manufacturing            | 0              | 0              | 0              | 0              | 0              | 0               |
| Mining                   | 0              | 0              | 0              | 0              | 0              | 0               |
| Steam Electric Power     | -8,000         | -15,000        | -20,000        | -20,000        | -20,000        | -20,000         |
| <b>TOTAL</b>             | <b>-21,888</b> | <b>-62,569</b> | <b>-71,812</b> | <b>-71,387</b> | <b>-71,227</b> | <b>-101,207</b> |



**Angelina and Nacogdoches Water Control & Improvement District (AN WCID) #1  
Demands, Supplies, and Needs**

| Water Use Type           | 2020          | 2030          | 2040          | 2050          | 2060          | 2070          |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Demands</b>           |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 8,289         | 8,289         | 8,289         | 8,289         |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 5,000         | 5,000         | 5,000         | 5,000         | 5,000         | 5,000         |
| <b>TOTAL</b>             | <b>5,000</b>  | <b>5,000</b>  | <b>13,289</b> | <b>13,289</b> | <b>13,289</b> | <b>13,289</b> |
| <b>Supplies</b>          |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 8,289         | 8,289         | 8,289         | 8,289         |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 5,000         | 5,000         | 5,000         | 5,000         | 5,000         | 5,000         |
| Surplus (Unallocated)    | 15,340        | 14,635        | 13,890        | 13,150        | 11,715        | 9,690         |
| <b>TOTAL</b>             | <b>20,340</b> | <b>19,635</b> | <b>27,179</b> | <b>26,439</b> | <b>25,004</b> | <b>22,979</b> |
| <b>First Tier Needs</b>  |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |
| <b>Second Tier Needs</b> |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |



**Athens Municipal Water Authority (AMWA)  
Demands, Supplies, and Needs**

| Water Use Type           | 2020         | 2030         | 2040         | 2050         | 2060          | 2070          |
|--------------------------|--------------|--------------|--------------|--------------|---------------|---------------|
| <b>Demands</b>           |              |              |              |              |               |               |
| Municipal                | 2,962        | 3,233        | 3,461        | 3,795        | 6,462         | 9,556         |
| Irrigation               | 170          | 170          | 170          | 170          | 170           | 170           |
| Livestock                | 3,023        | 3,023        | 3,023        | 3,023        | 3,023         | 3,023         |
| Manufacturing            | 484          | 591          | 591          | 591          | 591           | 591           |
| Mining                   | 0            | 0            | 0            | 0            | 0             | 0             |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0             | 0             |
| <b>TOTAL</b>             | <b>6,639</b> | <b>7,017</b> | <b>7,245</b> | <b>7,579</b> | <b>10,246</b> | <b>13,340</b> |
| <b>Supplies</b>          |              |              |              |              |               |               |
| Municipal                | 2,962        | 3,233        | 3,461        | 3,795        | 5,030         | 5,593         |
| Irrigation               | 170          | 170          | 170          | 170          | 119           | 85            |
| Livestock                | 3,023        | 3,023        | 3,023        | 3,023        | 2,120         | 1,505         |
| Manufacturing            | 484          | 591          | 591          | 591          | 591           | 591           |
| Mining                   | 0            | 0            | 0            | 0            | 0             | 0             |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0             | 0             |
| <b>TOTAL</b>             | <b>6,639</b> | <b>7,017</b> | <b>7,245</b> | <b>7,579</b> | <b>7,860</b>  | <b>7,774</b>  |
| <b>First Tier Needs</b>  |              |              |              |              |               |               |
| Municipal                | 0            | 0            | 0            | 0            | -1,432        | -3,963        |
| Irrigation               | 0            | 0            | 0            | 0            | -51           | -85           |
| Livestock                | 0            | 0            | 0            | 0            | -903          | -1,518        |
| Manufacturing            | 0            | 0            | 0            | 0            | 0             | 0             |
| Mining                   | 0            | 0            | 0            | 0            | 0             | 0             |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>-2,386</b> | <b>-5,566</b> |
| <b>Second Tier Needs</b> |              |              |              |              |               |               |
| Municipal                | 0            | 0            | 0            | 0            | -926          | -3,183        |
| Irrigation               | 0            | 0            | 0            | 0            | -51           | -85           |
| Livestock                | 0            | 0            | 0            | 0            | -903          | -1,518        |
| Manufacturing            | 0            | 0            | 0            | 0            | 0             | 0             |
| Mining                   | 0            | 0            | 0            | 0            | 0             | 0             |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>-1,880</b> | <b>-4,786</b> |



**City of Beaumont  
Demands, Supplies, and Needs**

| Water Use Type           | 2020          | 2030          | 2040          | 2050          | 2060          | 2070          |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Demands</b>           |               |               |               |               |               |               |
| Municipal                | 32,827        | 34,793        | 37,098        | 39,676        | 42,173        | 45,018        |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 1,642         | 1,658         | 1,675         | 1,692         | 1,709         | 1,726         |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>34,469</b> | <b>36,451</b> | <b>38,773</b> | <b>41,368</b> | <b>43,882</b> | <b>46,743</b> |
| <b>Supplies</b>          |               |               |               |               |               |               |
| Municipal                | 32,827        | 34,793        | 35,904        | 35,990        | 36,064        | 36,140        |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 1,642         | 1,658         | 1,621         | 1,535         | 1,461         | 1,385         |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>34,469</b> | <b>36,451</b> | <b>37,525</b> | <b>37,525</b> | <b>37,525</b> | <b>37,525</b> |
| <b>First Tier Needs</b>  |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0             | 0             | -54           | -157          | -248          | -340          |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | -1,194        | -3,685        | -6,109        | -8,878        |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>-1,248</b> | <b>-3,843</b> | <b>-6,357</b> | <b>-9,218</b> |
| <b>Second Tier Needs</b> |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | -1,496        |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | -54           | -157          | -248          | -340          |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>-54</b>    | <b>-157</b>   | <b>-248</b>   | <b>-1,837</b> |



**City of Carthage  
Demands, Supplies, and Needs**

| Water Use Type           | 2020         | 2030         | 2040         | 2050         | 2060         | 2070         |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Demands</b>           |              |              |              |              |              |              |
| Municipal                | 1,950        | 1,951        | 1,944        | 1,948        | 1,959        | 1,969        |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 906          | 945          | 984          | 1,017        | 1,084        | 1,115        |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>2,856</b> | <b>2,896</b> | <b>2,928</b> | <b>2,965</b> | <b>3,043</b> | <b>3,084</b> |
| <b>Supplies</b>          |              |              |              |              |              |              |
| Municipal                | 1,950        | 1,951        | 1,944        | 1,948        | 1,959        | 1,969        |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 906          | 945          | 984          | 1,017        | 1,084        | 1,115        |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| Surplus (Unallocated)    | 2,708        | 2,668        | 2,636        | 2,599        | 2,522        | 2,481        |
| <b>TOTAL</b>             | <b>5,564</b> | <b>5,564</b> | <b>5,564</b> | <b>5,564</b> | <b>5,565</b> | <b>5,565</b> |
| <b>First Tier Needs</b>  |              |              |              |              |              |              |
| Municipal                | 0            | 0            | 0            | 0            | 0            | 0            |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 0            | 0            | 0            | 0            | 0            | 0            |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     |
| <b>Second Tier Needs</b> |              |              |              |              |              |              |
| Municipal                | 0            | 0            | 0            | 0            | 0            | 0            |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 0            | 0            | 0            | 0            | 0            | 0            |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     |



**City of Center  
Demands, Supplies, and Needs**

| Water Use Type           | 2020         | 2030         | 2040         | 2050         | 2060         | 2070         |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Demands</b>           |              |              |              |              |              |              |
| Municipal                | 1,944        | 2,057        | 2,159        | 2,265        | 2,373        | 2,474        |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 1,696        | 1,696        | 1,696        | 1,696        | 1,696        | 1,696        |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>3,640</b> | <b>3,753</b> | <b>3,855</b> | <b>3,961</b> | <b>4,069</b> | <b>4,170</b> |
| <b>Supplies</b>          |              |              |              |              |              |              |
| Municipal                | 1,944        | 2,057        | 2,159        | 2,265        | 2,373        | 2,474        |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 1,696        | 1,696        | 1,696        | 1,696        | 1,696        | 1,696        |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| Surplus (Unallocated)    | 1,620        | 1,507        | 1,405        | 1,299        | 1,191        | 1,090        |
| <b>TOTAL</b>             | <b>5,260</b> | <b>5,260</b> | <b>5,260</b> | <b>5,260</b> | <b>5,260</b> | <b>5,260</b> |
| <b>First Tier Needs</b>  |              |              |              |              |              |              |
| Municipal                | 0            | 0            | 0            | 0            | 0            | 0            |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 0            | 0            | 0            | 0            | 0            | 0            |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     |
| <b>Second Tier Needs</b> |              |              |              |              |              |              |
| Municipal                | 0            | 0            | 0            | 0            | 0            | 0            |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 0            | 0            | 0            | 0            | 0            | 0            |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     |



**Houston County Water Control & Improvement District (WCID) #1  
Demands, Supplies, and Needs**

| Water Use Type           | 2020         | 2030         | 2040         | 2050         | 2060         | 2070         |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Demands</b>           |              |              |              |              |              |              |
| Municipal                | 2,097        | 2,097        | 2,097        | 2,097        | 2,097        | 2,097        |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 169          | 232          | 232          | 232          | 232          | 232          |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>2,266</b> | <b>2,329</b> | <b>2,329</b> | <b>2,329</b> | <b>2,329</b> | <b>2,329</b> |
| <b>Supplies</b>          |              |              |              |              |              |              |
| Municipal                | 2,097        | 2,097        | 2,097        | 2,097        | 2,097        | 2,097        |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 169          | 232          | 232          | 232          | 232          | 232          |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| Surplus (Unallocated)    | 1,234        | 1,171        | 1,171        | 1,171        | 1,171        | 1,171        |
| <b>TOTAL</b>             | <b>3,500</b> | <b>3,500</b> | <b>3,500</b> | <b>3,500</b> | <b>3,500</b> | <b>3,500</b> |
| <b>First Tier Needs</b>  |              |              |              |              |              |              |
| Municipal                | 0            | 0            | 0            | 0            | 0            | 0            |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 0            | 0            | 0            | 0            | 0            | 0            |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     |
| <b>Second Tier Needs</b> |              |              |              |              |              |              |
| Municipal                | 0            | 0            | 0            | 0            | 0            | 0            |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 0            | 0            | 0            | 0            | 0            | 0            |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     |



**City of Jacksonville  
Demands, Supplies, and Needs**

| Water Use Type           | 2020         | 2030         | 2040         | 2050         | 2060         | 2070         |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Demands</b>           |              |              |              |              |              |              |
| Municipal                | 4,462        | 4,739        | 5,031        | 5,443        | 5,921        | 6,448        |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 115          | 129          | 129          | 129          | 129          | 129          |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>4,577</b> | <b>4,868</b> | <b>5,160</b> | <b>5,572</b> | <b>6,050</b> | <b>6,577</b> |
| <b>Supplies</b>          |              |              |              |              |              |              |
| Municipal                | 4,462        | 4,739        | 5,031        | 5,443        | 5,921        | 6,448        |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 115          | 129          | 129          | 129          | 129          | 129          |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| Surplus (Unallocated)    | 2,814        | 2,523        | 2,231        | 1,819        | 1,341        | 814          |
| <b>TOTAL</b>             | <b>7,391</b> | <b>7,391</b> | <b>7,391</b> | <b>7,391</b> | <b>7,391</b> | <b>7,391</b> |
| <b>First Tier Needs</b>  |              |              |              |              |              |              |
| Municipal                | 0            | 0            | 0            | 0            | 0            | 0            |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 0            | 0            | 0            | 0            | 0            | 0            |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     |
| <b>Second Tier Needs</b> |              |              |              |              |              |              |
| Municipal                | 0            | 0            | 0            | 0            | 0            | 0            |
| Irrigation               | 0            | 0            | 0            | 0            | 0            | 0            |
| Livestock                | 0            | 0            | 0            | 0            | 0            | 0            |
| Manufacturing            | 0            | 0            | 0            | 0            | 0            | 0            |
| Mining                   | 0            | 0            | 0            | 0            | 0            | 0            |
| Steam Electric Power     | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>TOTAL</b>             | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     |



**Lower Neches Valley Authority (LNVA)  
Demands, Supplies, and Needs**

| Water Use Type           | 2020             | 2030             | 2040             | 2050             | 2060             | 2070             |
|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Demands</b>           |                  |                  |                  |                  |                  |                  |
| Municipal                | 56,285           | 57,902           | 59,626           | 61,764           | 63,812           | 64,549           |
| Irrigation               | 200,000          | 200,000          | 200,000          | 200,000          | 200,000          | 200,000          |
| Livestock                | 0                | 0                | 0                | 0                | 0                | 0                |
| Manufacturing            | 147,754          | 147,754          | 147,754          | 147,754          | 147,754          | 147,754          |
| Mining                   | 0                | 0                | 0                | 0                | 0                | 0                |
| Steam Electric Power     | 0                | 0                | 0                | 0                | 0                | 0                |
| <b>TOTAL</b>             | <b>404,039</b>   | <b>405,656</b>   | <b>407,380</b>   | <b>409,518</b>   | <b>411,566</b>   | <b>412,303</b>   |
| <b>Supplies</b>          |                  |                  |                  |                  |                  |                  |
| Municipal                | 56,285           | 57,902           | 59,626           | 61,764           | 63,812           | 64,549           |
| Irrigation               | 200,000          | 200,000          | 200,000          | 200,000          | 200,000          | 200,000          |
| Livestock                | 0                | 0                | 0                | 0                | 0                | 0                |
| Manufacturing            | 147,754          | 147,754          | 147,754          | 147,754          | 147,754          | 147,754          |
| Mining                   | 0                | 0                | 0                | 0                | 0                | 0                |
| Steam Electric Power     | 0                | 0                | 0                | 0                | 0                | 0                |
| Surplus (Unallocated)    | 797,837          | 768,221          | 766,496          | 764,358          | 762,310          | 761,573          |
| <b>TOTAL</b>             | <b>1,201,876</b> | <b>1,173,876</b> | <b>1,173,876</b> | <b>1,173,876</b> | <b>1,173,876</b> | <b>1,173,876</b> |
| <b>First Tier Needs</b>  |                  |                  |                  |                  |                  |                  |
| Municipal                | 0                | 0                | 0                | 0                | 0                | 0                |
| Irrigation               | 0                | 0                | 0                | 0                | 0                | 0                |
| Livestock                | 0                | 0                | 0                | 0                | 0                | 0                |
| Manufacturing            | 0                | 0                | 0                | 0                | 0                | 0                |
| Mining                   | 0                | 0                | 0                | 0                | 0                | 0                |
| Steam Electric Power     | 0                | 0                | 0                | 0                | 0                | 0                |
| <b>TOTAL</b>             | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         |
| <b>Second Tier Needs</b> |                  |                  |                  |                  |                  |                  |
| Municipal                | 0                | 0                | 0                | 0                | 0                | 0                |
| Irrigation               | 0                | 0                | 0                | 0                | 0                | 0                |
| Livestock                | 0                | 0                | 0                | 0                | 0                | 0                |
| Manufacturing            | 0                | 0                | 0                | 0                | 0                | 0                |
| Mining                   | 0                | 0                | 0                | 0                | 0                | 0                |
| Steam Electric Power     | 0                | 0                | 0                | 0                | 0                | 0                |
| <b>TOTAL</b>             | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         |



**City of Lufkin  
Demands, Supplies, and Needs**

| Water Use Type           | 2020           | 2030          | 2040          | 2050          | 2060          | 2070          |
|--------------------------|----------------|---------------|---------------|---------------|---------------|---------------|
| <b>Demands</b>           |                |               |               |               |               |               |
| Municipal                | 38,243         | 10,535        | 10,782        | 11,063        | 11,372        | 11,658        |
| Irrigation               | 779            | 779           | 779           | 779           | 779           | 779           |
| Livestock                | 0              | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 732            | 776           | 776           | 776           | 776           | 776           |
| Mining                   | 0              | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 16,802         | 16,802        | 16,802        | 16,802        | 16,802        | 16,802        |
| <b>TOTAL</b>             | <b>56,555</b>  | <b>28,891</b> | <b>29,138</b> | <b>29,419</b> | <b>29,728</b> | <b>30,014</b> |
| <b>Supplies</b>          |                |               |               |               |               |               |
| Municipal                | 20,414         | 10,535        | 10,782        | 11,063        | 11,372        | 11,658        |
| Irrigation               | 779            | 779           | 779           | 779           | 779           | 779           |
| Livestock                | 0              | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 732            | 776           | 776           | 776           | 776           | 776           |
| Mining                   | 0              | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 16,802         | 16,802        | 16,802        | 16,802        | 16,802        | 16,802        |
| Surplus (Unallocated)    | 0              | 9,836         | 9,589         | 9,308         | 8,999         | 8,713         |
| <b>TOTAL</b>             | <b>38,727</b>  | <b>38,727</b> | <b>38,727</b> | <b>38,727</b> | <b>38,727</b> | <b>38,727</b> |
| <b>First Tier Needs</b>  |                |               |               |               |               |               |
| Municipal                | -17,097        | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0              | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0              | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0              | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0              | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0              | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>-17,097</b> | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |
| <b>Second Tier Needs</b> |                |               |               |               |               |               |
| Municipal                | -16,946        | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0              | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0              | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0              | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0              | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0              | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>-16,946</b> | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |



**City of Nacogdoches  
Demands, Supplies, and Needs**

| Water Use Type           | 2020          | 2030          | 2040          | 2050          | 2060          | 2070          |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Demands</b>           |               |               |               |               |               |               |
| Municipal                | 7,323         | 7,969         | 8,632         | 9,400         | 10,273        | 11,197        |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 2,508         | 2,529         | 2,529         | 2,529         | 2,529         | 2,529         |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>9,831</b>  | <b>10,498</b> | <b>11,161</b> | <b>11,929</b> | <b>12,802</b> | <b>13,726</b> |
| <b>Supplies</b>          |               |               |               |               |               |               |
| Municipal                | 7,323         | 7,969         | 8,632         | 9,400         | 10,273        | 11,197        |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 2,508         | 2,529         | 2,529         | 2,529         | 2,529         | 2,529         |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| Surplus (Unallocated)    | 12,861        | 11,794        | 10,731        | 9,563         | 8,290         | 6,966         |
| <b>TOTAL</b>             | <b>22,692</b> | <b>22,292</b> | <b>21,892</b> | <b>21,492</b> | <b>21,092</b> | <b>20,692</b> |
| <b>First Tier Needs</b>  |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |
| <b>Second Tier Needs</b> |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |



**Panola County Freshwater Supply District (FWSD) 1  
Demands, Supplies, and Needs**

| Water Use Type           | 2020          | 2030          | 2040          | 2050          | 2060          | 2070          |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Demands</b>           |               |               |               |               |               |               |
| Municipal                | 13,452        | 13,452        | 13,452        | 13,452        | 13,452        | 13,452        |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 3,550         | 3,515         | 3,029         | 2,561         | 2,172         | 2,363         |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>17,002</b> | <b>16,967</b> | <b>16,481</b> | <b>16,013</b> | <b>15,624</b> | <b>15,815</b> |
| <b>Supplies</b>          |               |               |               |               |               |               |
| Municipal                | 13,452        | 13,452        | 13,452        | 13,452        | 13,452        | 13,452        |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 3,550         | 3,515         | 3,029         | 2,561         | 2,172         | 2,363         |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| Surplus (Unallocated)    | 4,365         | 3,719         | 3,525         | 3,312         | 3,020         | 2,148         |
| <b>TOTAL</b>             | <b>21,367</b> | <b>20,686</b> | <b>20,006</b> | <b>19,325</b> | <b>18,644</b> | <b>17,963</b> |
| <b>First Tier Needs</b>  |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |
| <b>Second Tier Needs</b> |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |



**City of Port Arthur  
Demands, Supplies, and Needs**

| Water Use Type           | 2020          | 2030          | 2040          | 2050          | 2060          | 2070          |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Demands</b>           |               |               |               |               |               |               |
| Municipal                | 19,239        | 19,210        | 18,989        | 18,944        | 18,925        | 18,924        |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 6,443         | 6,443         | 6,443         | 6,443         | 6,443         | 6,443         |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>25,682</b> | <b>25,653</b> | <b>25,432</b> | <b>25,387</b> | <b>25,368</b> | <b>25,367</b> |
| <b>Supplies</b>          |               |               |               |               |               |               |
| Municipal                | 19,239        | 19,210        | 18,989        | 18,944        | 18,925        | 18,924        |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 6,443         | 6,443         | 6,443         | 6,443         | 6,443         | 6,443         |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>25,682</b> | <b>25,653</b> | <b>25,432</b> | <b>25,387</b> | <b>25,368</b> | <b>25,367</b> |
| <b>First Tier Needs</b>  |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |
| <b>Second Tier Needs</b> |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |



**Sabine River Authority (SRA)  
Demands, Supplies, and Needs**

| Water Use Type           | 2020             | 2030             | 2040             | 2050             | 2060             | 2070             |
|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Demands</b>           |                  |                  |                  |                  |                  |                  |
| Municipal                | 2,020            | 2,020            | 2,020            | 2,020            | 2,020            | 2,020            |
| Irrigation               | 1,255            | 1,255            | 1,255            | 1,255            | 1,255            | 1,255            |
| Livestock                | 0                | 0                | 0                | 0                | 0                | 0                |
| Manufacturing            | 57,111           | 57,111           | 57,111           | 57,111           | 57,111           | 57,111           |
| Mining                   | 7,500            | 7,500            | 7,500            | 7,500            | 7,500            | 7,500            |
| Steam Electric Power     | 35,845           | 35,845           | 35,845           | 35,845           | 35,845           | 35,845           |
| <b>TOTAL</b>             | <b>103,731</b>   | <b>103,731</b>   | <b>103,731</b>   | <b>103,731</b>   | <b>103,731</b>   | <b>103,731</b>   |
| <b>Supplies</b>          |                  |                  |                  |                  |                  |                  |
| Municipal                | 2,020            | 2,020            | 2,020            | 2,020            | 2,020            | 2,020            |
| Irrigation               | 1,255            | 1,255            | 1,255            | 1,255            | 1,255            | 1,255            |
| Livestock                | 0                | 0                | 0                | 0                | 0                | 0                |
| Manufacturing            | 57,111           | 57,111           | 57,111           | 57,111           | 57,111           | 57,111           |
| Mining                   | 7,500            | 7,500            | 7,500            | 7,500            | 7,500            | 7,500            |
| Steam Electric Power     | 35,845           | 35,845           | 35,845           | 35,845           | 35,845           | 35,845           |
| Surplus (Unallocated)    | 999,279          | 999,279          | 999,279          | 999,279          | 999,279          | 999,279          |
| <b>TOTAL</b>             | <b>1,103,010</b> | <b>1,103,010</b> | <b>1,103,010</b> | <b>1,103,010</b> | <b>1,103,010</b> | <b>1,103,010</b> |
| <b>First Tier Needs</b>  |                  |                  |                  |                  |                  |                  |
| Municipal                | 0                | 0                | 0                | 0                | 0                | 0                |
| Irrigation               | 0                | 0                | 0                | 0                | 0                | 0                |
| Livestock                | 0                | 0                | 0                | 0                | 0                | 0                |
| Manufacturing            | 0                | 0                | 0                | 0                | 0                | 0                |
| Mining                   | 0                | 0                | 0                | 0                | 0                | 0                |
| Steam Electric Power     | 0                | 0                | 0                | 0                | 0                | 0                |
| <b>TOTAL</b>             | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         |
| <b>Second Tier Needs</b> |                  |                  |                  |                  |                  |                  |
| Municipal                | 0                | 0                | 0                | 0                | 0                | 0                |
| Irrigation               | 0                | 0                | 0                | 0                | 0                | 0                |
| Livestock                | 0                | 0                | 0                | 0                | 0                | 0                |
| Manufacturing            | 0                | 0                | 0                | 0                | 0                | 0                |
| Mining                   | 0                | 0                | 0                | 0                | 0                | 0                |
| Steam Electric Power     | 0                | 0                | 0                | 0                | 0                | 0                |
| <b>TOTAL</b>             | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         |



**City of Tyler  
Demands, Supplies, and Needs**

| Water Use Type           | 2020          | 2030          | 2040          | 2050          | 2060          | 2070          |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Demands</b>           |               |               |               |               |               |               |
| Municipal                | 23,002        | 24,315        | 25,716        | 27,397        | 29,261        | 31,216        |
| Irrigation               | 400           | 400           | 400           | 400           | 400           | 400           |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 1,774         | 2,009         | 2,009         | 2,009         | 2,009         | 2,009         |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>25,176</b> | <b>26,724</b> | <b>28,124</b> | <b>29,806</b> | <b>31,670</b> | <b>33,625</b> |
| <b>Supplies</b>          |               |               |               |               |               |               |
| Municipal                | 23,002        | 24,315        | 25,716        | 27,397        | 29,261        | 31,216        |
| Irrigation               | 400           | 400           | 400           | 400           | 400           | 400           |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 1,774         | 2,009         | 2,009         | 2,009         | 2,009         | 2,009         |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| Surplus (Unallocated)    | 15,580        | 14,032        | 12,632        | 10,950        | 9,086         | 7,131         |
| <b>TOTAL</b>             | <b>40,756</b> | <b>40,756</b> | <b>40,756</b> | <b>40,756</b> | <b>40,756</b> | <b>40,756</b> |
| <b>First Tier Needs</b>  |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |
| <b>Second Tier Needs</b> |               |               |               |               |               |               |
| Municipal                | 0             | 0             | 0             | 0             | 0             | 0             |
| Irrigation               | 0             | 0             | 0             | 0             | 0             | 0             |
| Livestock                | 0             | 0             | 0             | 0             | 0             | 0             |
| Manufacturing            | 0             | 0             | 0             | 0             | 0             | 0             |
| Mining                   | 0             | 0             | 0             | 0             | 0             | 0             |
| Steam Electric Power     | 0             | 0             | 0             | 0             | 0             | 0             |
| <b>TOTAL</b>             | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>      |



**Upper Neches River Municipal Water Authority (UNRMWA)  
Demands, Supplies, and Needs**

| Water Use Type           | 2020           | 2030           | 2040           | 2050           | 2060           | 2070           |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Demands</b>           |                |                |                |                |                |                |
| Municipal                | 209,537        | 209,537        | 209,537        | 209,537        | 209,537        | 209,537        |
| Irrigation               | 610            | 587            | 565            | 547            | 532            | 532            |
| Livestock                | 0              | 0              | 0              | 0              | 0              | 0              |
| Manufacturing            | 100            | 100            | 100            | 100            | 100            | 100            |
| Mining                   | 0              | 0              | 0              | 0              | 0              | 0              |
| Steam Electric Power     | 0              | 0              | 0              | 0              | 0              | 0              |
| <b>TOTAL</b>             | <b>210,247</b> | <b>210,224</b> | <b>210,202</b> | <b>210,184</b> | <b>210,169</b> | <b>210,169</b> |
| <b>Supplies</b>          |                |                |                |                |                |                |
| Municipal                | 197,000        | 195,423        | 193,945        | 192,363        | 190,678        | 188,378        |
| Irrigation               | 610            | 587            | 565            | 547            | 532            | 532            |
| Livestock                | 0              | 0              | 0              | 0              | 0              | 0              |
| Manufacturing            | 100            | 100            | 100            | 100            | 100            | 100            |
| Mining                   | 0              | 0              | 0              | 0              | 0              | 0              |
| Steam Electric Power     | 0              | 0              | 0              | 0              | 0              | 0              |
| <b>TOTAL</b>             | <b>197,710</b> | <b>196,110</b> | <b>194,610</b> | <b>193,010</b> | <b>191,310</b> | <b>189,010</b> |
| <b>First Tier Needs</b>  |                |                |                |                |                |                |
| Municipal                | -12,537        | -14,114        | -15,592        | -17,174        | -18,859        | -21,159        |
| Irrigation               | 0              | 0              | 0              | 0              | 0              | 0              |
| Livestock                | 0              | 0              | 0              | 0              | 0              | 0              |
| Manufacturing            | 0              | 0              | 0              | 0              | 0              | 0              |
| Mining                   | 0              | 0              | 0              | 0              | 0              | 0              |
| Steam Electric Power     | 0              | 0              | 0              | 0              | 0              | 0              |
| <b>TOTAL</b>             | <b>-12,537</b> | <b>-14,114</b> | <b>-15,592</b> | <b>-17,174</b> | <b>-18,859</b> | <b>-21,159</b> |
| <b>Second Tier Needs</b> |                |                |                |                |                |                |
| Municipal                | -12,537        | -14,114        | -15,592        | -17,174        | -18,859        | -21,159        |
| Irrigation               | 0              | 0              | 0              | 0              | 0              | 0              |
| Livestock                | 0              | 0              | 0              | 0              | 0              | 0              |
| Manufacturing            | 0              | 0              | 0              | 0              | 0              | 0              |
| Mining                   | 0              | 0              | 0              | 0              | 0              | 0              |
| Steam Electric Power     | 0              | 0              | 0              | 0              | 0              | 0              |
| <b>TOTAL</b>             | <b>-12,537</b> | <b>-14,114</b> | <b>-15,592</b> | <b>-17,174</b> | <b>-18,859</b> | <b>-21,159</b> |

