

## CHAPTER 2 POPULATION AND WATER DEMAND PROJECTIONS

In each planning cycle, the regional water planning groups are required to revisit past planning efforts and revise population and water demand projections to reflect changes that have occurred since the previous round of planning and to incorporate any newly available information. Per the Texas Water Development Board's (TWDB's) "[General Guidelines for Development of the 2026 Regional Water Plans Development \(Fifth Sixth Cycle of Regional Water Planning\)](#)", [the population and water demand projections have been revised from previous planning rounds, utilizing the 2020 decennial U.S. Census data, most recent county-level population projections from the Texas Demographic Center, and the most recent utility boundary information, because there are not new decennial census data available in time to be used in the 2021-2026 regional water plans, the emphasis of this work is on the transition of the 2017-2021 State Water Plan population projections and the associated water demand projections from political boundaries to utility service area boundaries, and to making limited modifications based on relevant changed conditions that have occurred since the development of the projections used in the 2017-2021 State Water Plan.](#) Further, non-population related water demand projections consisting of manufacturing, irrigation, and steam-electric power generation have been developed by TWDB using newly adopted methodologies. The TWDB, in conjunction with the Texas Commission on Environmental Quality (TCEQ), Texas Parks and Wildlife Department (TPWD), and Texas Department of Agriculture (TDA), prepared population and water demand projections for all water demands and all Water User Groups (WUGs). Draft population and water demand projections were provided to the NETRWPG for review, with requested changes to the projections made where provided by the RWPG. The population and water demand projections have been formally adopted for use in development of the [2021-2026](#) RWPs.

The new population projections used in the [2021-2026](#) Regional Water Plans (RWPs) increase population projections in some locations while decreasing population projections in other locations, relative to the population projections in the [2016-2021](#) RWPs. TWDB has directly populated the Regional Water Planning Application (DB272) with all WUG-level projections.

The following sections of this chapter describe the methodology that has been used in the current (~~fifth~~sixth) round of planning, to develop regional population and water demand projections. This chapter presents projections for population and water demand for major cities, providers of municipal and manufacturing water, and for categories of water use including municipal, manufacturing, irrigation, steam electric power generation, mining and livestock. Projected demands are also provided for each of the six river basins located within the North East Texas Region.

**The results presented herein represent the population and water demand projections that received final approval from the Region D – Regional Water Planning Group for inclusion in the [2021-2026](#) Regional Water Plan and approval from the TWDB for inclusion in the [2022-2027](#) State Water Plan.**

Both population and water demand are projected to grow by approximately ~~65~~13% and ~~49~~11%, respectively, from the years [2020-2030](#) to [2070-2080](#). The largest percentage of water is currently used for municipal, manufacturing, and steam-electric power generation uses.

Table 2.1 Population and Water Demand Projections for the North East Texas Region

Total Regional Projection	2030	2040	2050	2060	2070	2080
<b>Population</b>						
Total	873,433	904,455	928,548	947,851	964,080	983,981
<b>Water Demand (ac-ft per year)</b>						
Municipal	156,589	162,106	166,418	169,711	172,670	176,095
Manufacturing	108,499	112,529	116,707	121,036	125,527	130,187
Irrigation	32,608	32,608	32,608	32,608	32,608	32,608
Steam Electric	64,012	64,012	64,012	64,012	64,012	64,012
Mining	5,307	5,326	5,418	5,495	5,557	5,604
Livestock	22,535	22,444	22,305	22,192	22,172	22,172
<b>Total Water Demand (ac-ft)</b>	<b>389,550</b>	<b>399,025</b>	<b>407,468</b>	<b>415,054</b>	<b>422,546</b>	<b>430,678</b>

## 2.1 Methodology

### 2.1.1 Population Projections

Population projections were developed using the [2010-2020](#) Census data and other available sources. Projections were first developed at the county level, and then allocated to municipal and county-other WUG's. For this planning round, population projections and the associated water demand projections have [again](#) been developed for utility service area boundaries, rather than using political boundaries (e.g. city limits) as was done in [previous](#) rounds [previous to the 2022 of water planning in the State State Water Planning process](#). TWDB staff summed the county populations in the state to regional totals. Any adjustments to a county-level population required a justifiable redistribution of projected county populations within the region so that the summed regional total remained the same.

Per TWDB Guidelines, municipal WUGs in the [2021-2026](#) Region D Plan are defined as:

- Privately-owned utilities that provide an average of more than 100 acre-feet per year for municipal use for all owned water systems.
- Water systems serving institutions or facilities owned by the state or federal government that provide more than 100 acre-feet per year for municipal use;
- All other Retail Public Utilities not covered in paragraphs (A) and (B) that provide more than 100 acre-feet per year for municipal use;
- Collective Reporting Units, or groups of Retail Public Utilities that have a common association and are requested for inclusion by the RWPG; and
- Municipal and domestic water use, referred to as County-Other, not included in (A)-(D).

The list of WUGs for the [2021-2026](#) Region D Plan was prepared based on the rules listed above and TWDB Water Use Survey data for the 2010-[2022](#) period, revised based on input provided by the NETRWPG to the TWDB, and ultimately adopted by both the NETRWPG and TWDB. [Importantly, for the first time in the](#)

regional water planning process TWDB no longer allows the default assumption that declining populations would be held constant (an assumption utilized in all previous regional water planning processes). This, in effect, allows for projections of declining population where such declines are presently observed.

## 2.1.2 Water Demand Projections

Discussion of how demand projections were developed in the ~~fifth-sixth~~ round of planning is presented in the following paragraphs. Water demand projections for RWPs are based upon dry-year conditions, so the base year for the projections is intended to be the driest year from 2006 onwards. ~~Based upon quarterly drought indices from the National Drought Mitigation Center,~~ TWDB staff determined that the baseline dry-year per capita usage amounts (measured in gallons per capita daily, i.e., GPCD) were to remain consistent with those identified for the purposes of the 2021 regional water plans (typically 2011) ~~was to be used for use~~ as the default dry-year baseline for the water demand projections, with water efficiency savings due to more efficient plumbing fixtures and appliances through 2020 subtracted. Reported municipal water use data through the TWDB Water Use Survey for the designated dry year was used to calculate the base per capita water use for each WUG. TWDB prepared draft population and municipal water demand projections for ~~2020-2030 – 2070-2080~~ for all municipal WUGs using the population projection trends, based on the population projections in the 2017-2022 State Water Plan as reassembled by utility service areas.

Demand projections for non-municipal WUG's were also developed. For manufacturing, irrigation, and steam-electric power generation, newly adopted methodologies were employed by TWDB and made available to the RWPG for review.

For irrigation water demand projections, the baseline methodology for draft irrigation water demand projections is the average of the most recent five-years (2015-2019) of water use estimates held constant between 2030 and 2080. In counties where the total groundwater availability over the planning period is projected to be less than the groundwater-portion of the baseline water demand projections, the draft irrigation water demand projections will begin to decline starting in 2040, or a later decade, commensurate with the decline in the associated groundwater availability.

~~the baseline methodology was to use of the average of the most recent five-years of water use estimates held constant between 2020 and 2070. In counties where the total groundwater availability over the planning period was projected to be less than the groundwater-portion of the baseline water demand projections, the irrigation water demand projections were modified to decline in 2030 or later, commensurate with the groundwater availability.~~

For manufacturing, the baseline for draft manufacturing water demand projections was based on the highest county-aggregated manufacturing water use in the most recent five years (2015-2019), plus estimated unaccounted water use. The most recent 10-year historical number of establishments from the U.S. Census Bureau County Business Pattern data or other relevant economic measures available are used as proxy for growth between 2030 and 2080.

~~the 2020 water demand projections for each county are based on the highest county-aggregated manufacturing water use in the most recent five-years of reported data from annual water use surveys. The most recent 10-year projections for employment growth from the Texas Workforce Commission were used as a proxy for growth by manufacturing sectors between 2020 and 2030. After 2030, the TWDB methodology is for manufacturing water use to be held constant through 2070.~~

For steam-electric power generation, the baseline for draft water demand projections are based on the highest county aggregated historical steam-electric power water use in the most recent five years (2015-2019). Subsequent demand projections after 2030 are held constant throughout the planning period. The anticipated water use of future facilities listed in state and federal reports is added to the demand projections from the anticipated operation date through 2080. The reported water use of power generation facilities scheduled for retirement in the state and federal reports is subtracted from the baseline or the decade in which they are projected to retire.

~~the 2020 water demand projections for each county have been based on the highest county aggregated steam-electric power water use in the most recent five years of reported data from annual water use surveys. The anticipated water use of future facilities listed in state and federal reports were added to the demand projections from the anticipated operation date to 2070. Subsequent demand projections after 2020 are assumed, as required by TWDB guidelines, to be constant throughout the planning period.~~

For mining, the TWDB's annual mining water use estimates are comprised of data from both surveyed and non-surveyed entities and are based on the mining study conducted in partnership with the U.S. Geological Survey and the University of Texas Bureau of Economic Geology.

~~For and livestock, the draft water demand projections for each county were based on the average of the most recent five-years (2015-2019) of water use estimates. The rate of change for 2020-2070 from the 2022 State Water Plan was then applied to the new baseline. categories, similar projections with minor adjustments from the 2017 State Water Plan were used. TWDB relied on a prior study with the Bureau of Economic Geology at the University of Texas at Austin to originally develop the draft mining water demand projections for each planning region.~~

Similar to the population projections, the water demand projections were released for the planning groups to review and request revisions as necessary.

## 2.2 Population Projections

The population of the nineteen county North East Texas Region is projected to grow over the fifty year planning period. Figure 2.1 below illustrates the historical and projected population for the North East Texas Region. The tables on the following pages break down the population projections by county and river basin. The figures illustrate the percent of population growth by county and population by river basin.

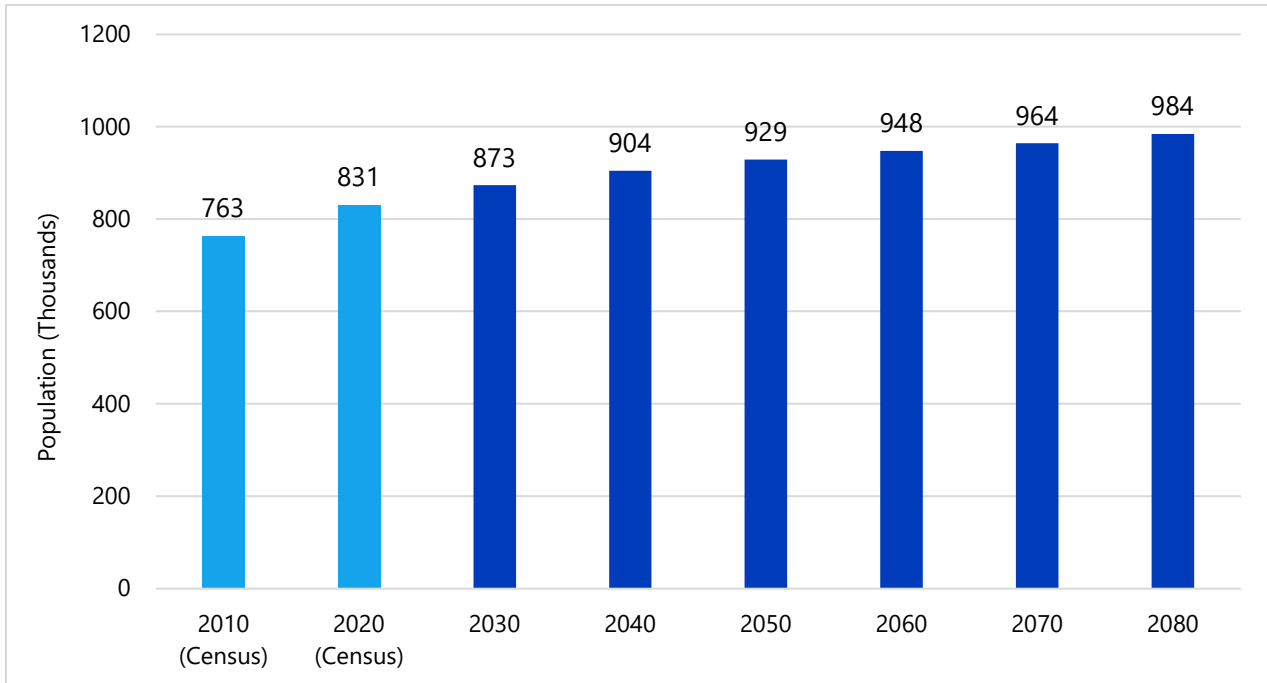


Figure 2.1 Historical and Projected Population for Region D

The Region’s population is anticipated to grow by [6512.7%](#) overall (from [20320](#) to [20870](#)) with the largest percentage growth ([26257%](#)) occurring in [Hunt-Van Zandt](#) County and [9737%](#) in [Smith-Hunt](#) County. In the year [20130](#), the counties with the largest [projected](#) population [were are Hunt, Gregg, and Bowie](#) Counties. These counties include the Cities of [Greenville, Commerce, Longview, and Texarkana, Texas](#), respectively. By [20870](#), the largest county populations in the region are expected to be Hunt County and Gregg County, with Bowie County falling to the fourth largest county in the region [behind Van Zandt County](#). Although population is expected to increase at varying rates in each county throughout the region, the particularly large population growth in Hunt County can be attributed to the anticipated growth of the City of Greenville and urban sprawl from the Dallas-Fort Worth Metroplex to the east. [Declines in population are projected for Red River, Marion, Morris, Delta, Upshur, Cass, and Bowie Counties.](#)

Table 2.2 Population Projection by County

County	2030	2040	2050	2060	2070	2080
BOWIE	94,952	94,456	93,769	92,482	91,181	89,866
CAMP	12,874	13,015	13,053	13,162	13,269	13,378
CASS	27,472	26,187	24,777	23,650	22,525	21,400
DELTA	5,284	5,256	5,220	5,152	5,082	5,012
FRANKLIN	10,466	10,398	10,258	10,335	10,413	10,490
GREGG	126,860	128,531	129,120	128,404	127,669	126,995
HARRISON	71,617	73,196	73,568	73,623	73,688	73,681
HOPKINS	42,832	44,267	45,327	46,304	47,242	48,242
HUNT	141,169	154,138	167,439	176,811	183,183	193,165

County	2030	2040	2050	2060	2070	2080
LAMAR	51,278	51,417	51,179	50,940	50,700	50,460
MARION	9,244	8,630	7,950	7,495	7,041	6,587
MORRIS	12,076	11,775	11,342	11,042	10,718	10,342
RAINS	13,570	14,398	15,177	16,172	17,133	18,137
RED RIVER	10,868	10,029	9,214	8,548	7,882	7,216
SMITH	48,406	51,319	53,377	54,771	56,186	57,610
TITUS	36,045	38,565	40,257	41,949	43,552	45,080
UPSHUR	42,212	42,590	42,433	41,825	41,214	40,591
VAN ZANDT	67,646	75,479	82,956	90,698	98,528	106,444
WOOD	48,562	50,809	52,132	54,488	56,874	59,285
<b>REGION TOTAL</b>	<b>873,433</b>	<b>904,455</b>	<b>928,548</b>	<b>947,851</b>	<b>964,080</b>	<b>983,981</b>

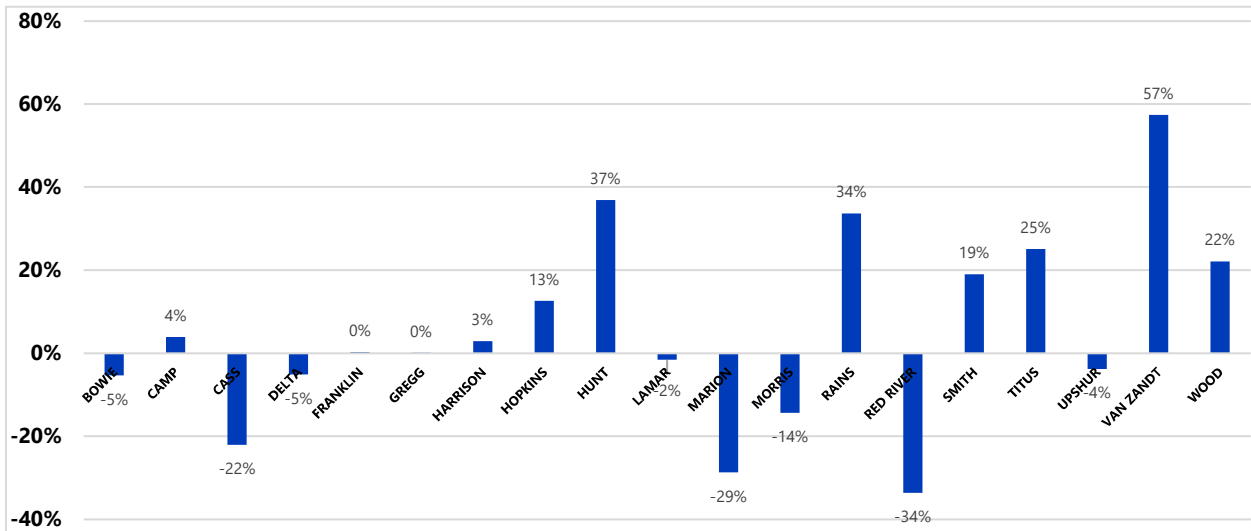


Figure 2.2 Percent Population Growth by County (2020 – 2070)

As depicted in Table 2.3 and Figure 2.3, the largest portion of the Region’s population is within the Sabine River Basin. The Cities of Greenville, Longview, Kilgore, and portions of Marshall are within the Sabine River Basin, as well as a large geographic area comprised of many smaller WUG’s. The Sabine River Basin is anticipated to grow more quickly than other basins in the region because of the large population growth expected in the eastern portion of Hunt County, as mentioned previously.

A more detailed breakdown of population projections for the North East Texas Region is presented in Appendix C2-1 for this chapter.

Table 2.3 Population Projections by River Basin

Basin	2030	2040	2050	2060	2070	2080
CYPRESS	154,363	155,358	154,560	153,854	153,098	152,287
NECHES	15,055	16,579	17,817	18,894	19,724	20,280

Basin	2030	2040	2050	2060	2070	2080
RED	43,065	42,994	42,736	42,401	42,064	41,743
SABINE	456,821	481,882	503,266	520,209	534,293	552,218
SULPHUR	186,578	186,910	186,257	185,028	183,684	182,196
TRINITY	17,551	20,732	23,912	27,465	31,217	35,257
<b>REGION TOTAL</b>	<b>2,620,299</b>	<b>2,713,365</b>	<b>2,785,644</b>	<b>2,843,553</b>	<b>2,892,240</b>	<b>2,951,943</b>

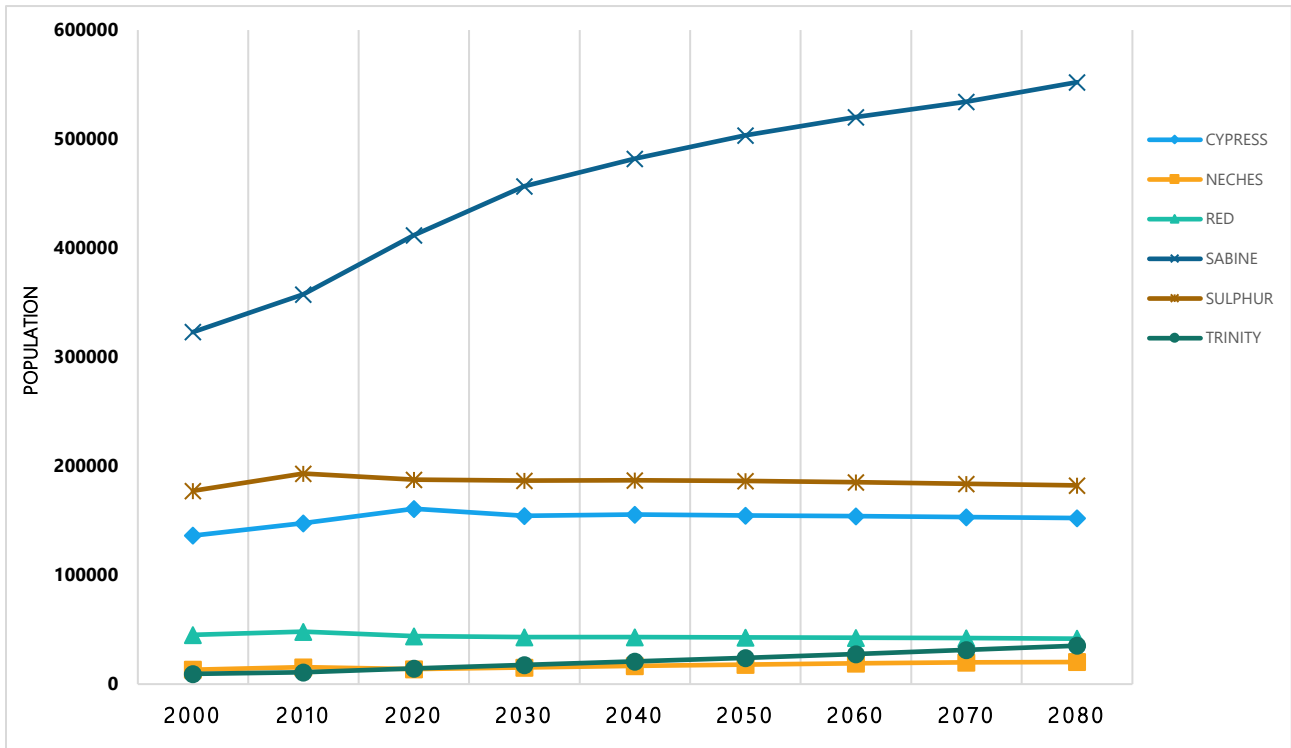


Figure 2.3 Population Projections by River Basin

## 2.3 Water Demand Projections

While the overall projected regional population amounts and accordant municipal demands are generally similar, the population projections to be used in the [20212026](#) Region D Water Plan for individual municipal WUGs differ from those employed for the [202116](#) Plan, as for the present round of planning [utility boundaries are now being used rather than political boundaries \(i.e., city limits\)](#), [the decennial census forms the basis for population projections and declining projections are no longer assumed to remain at present levels](#). Projections for non-municipal demands, [however also](#), differ [substantially](#) from projections of non-municipal demand employed in previous rounds of water planning for the region. This difference is primarily due to the new methods adopted by the TWDB for the present cycle, resulting in significantly smaller projections of demand for manufacturing and steam-electric power generation [\(the latter of which also reflecting the closure of facilities\)](#). These differences are apparent in the resultant projections of demand for Region\_D.

Total annual water demand is expected to increase approximately 119% or 77,902,411,128 ac-ft/yr, from 20320 to 20870. The projected increase in regional water demand is predominantly due to increases in municipal and manufacturing water demands. Table 2.4 and Figure 2.4 summarize and illustrate the projected water demand by category.

Table 2.4 Regional Water Demand Projections by Category of Use (acre-feet)

Total Water Demand	2030	2040	2050	2060	2070	2080
Municipal	156,589	162,106	166,418	169,711	172,670	176,095
Manufacturing	108,499	112,529	116,707	121,036	125,527	130,187
Irrigation	32,608	32,608	32,608	32,608	32,608	32,608
Steam Electric	64,012	64,012	64,012	64,012	64,012	64,012
Mining	5,307	5,326	5,418	5,495	5,557	5,604
Livestock	22,535	22,444	22,305	22,192	22,172	22,172
<b>Total Water Demand (ac-ft)</b>	<b>389,550</b>	<b>399,025</b>	<b>407,468</b>	<b>415,054</b>	<b>422,546</b>	<b>430,678</b>

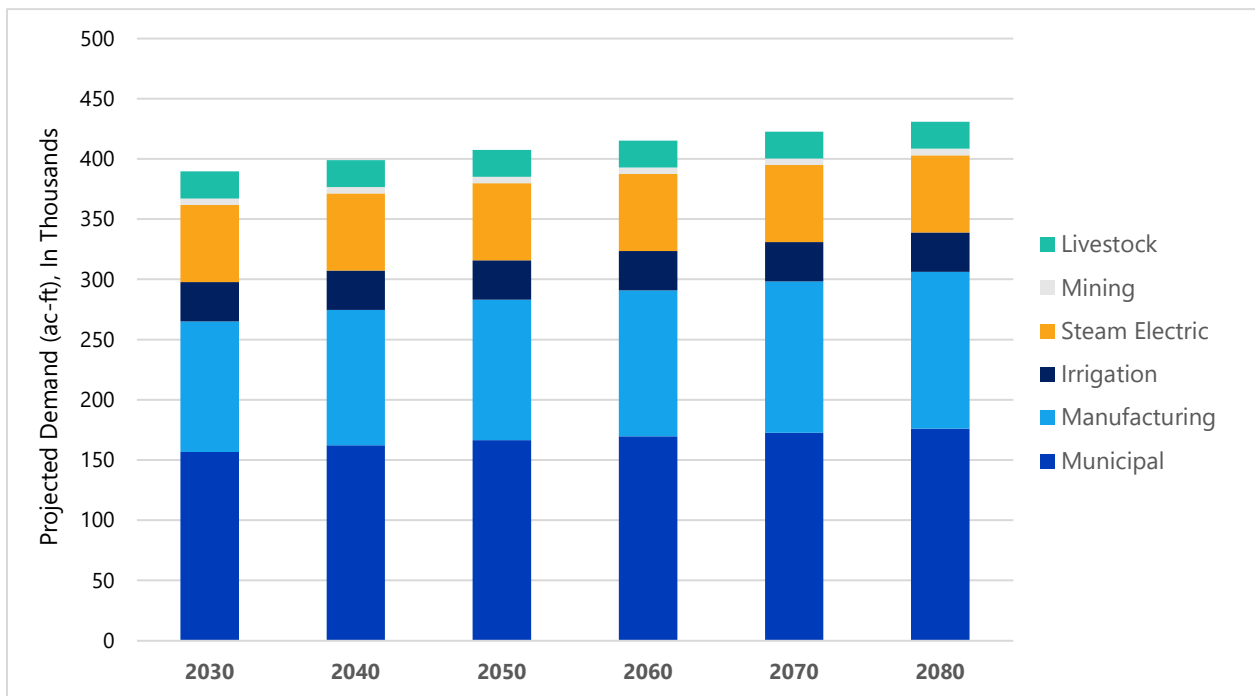


Figure 2.4 Regional Water Demand Projections by Category of Use (acre-feet)

Total water demand by county and by river basin, as presented in Tables 2.5 and 2.6, respectively, are cumulative measures of all water demand in the region for municipal, manufacturing, mining, steam electric, livestock and irrigation purposes. Harrison, Titus, Cass, and Harrison-Gregg Counties currently have – and are projected to continue to have – the highest overall water demand through 20870. Due primarily to growth in municipal demand, the Sabine River Basin is projected to have the highest overall water demand of the six river basins within the region. Approximately 200,186,000 acre-feet of water will



be needed in 20870 for the portion of the Sabine River Basin that is in the North East Texas RWPA. This growth in water demand by river basin is depicted graphically in Figure 2.5.

Table 2.5 Total Water Demand Projections by County (acre-feet)

County	2030	2040	2050	2060	2070	2080
BOWIE	29,111	28,929	28,809	28,611	28,489	28,409
CAMP	3,080	3,092	3,098	3,113	3,129	3,145
CASS	40,437	41,597	42,807	44,102	45,453	46,858
DELTA	4,319	4,316	4,311	4,303	4,295	4,286
FRANKLIN	3,293	3,273	3,249	3,261	3,275	3,286
GREGG	35,503	35,898	36,144	36,051	35,953	35,877
HARRISON	64,682	65,873	66,970	68,058	69,194	70,307
HOPKINS	16,394	16,631	16,849	17,050	17,244	17,449
HUNT	33,739	36,860	39,444	41,384	42,959	44,993
LAMAR	28,486	28,673	28,852	29,036	29,231	29,433
MARION	5,661	5,595	5,529	5,486	5,442	5,399
MORRIS	29,856	30,845	31,863	32,935	34,046	35,193
RAINS	2,915	3,022	3,136	3,261	3,383	3,508
RED RIVER	7,208	7,055	6,907	6,789	6,670	6,547
SMITH	9,995	10,575	11,012	11,321	11,637	11,955
TITUS	42,860	43,342	43,734	44,128	44,519	44,911
UPSHUR	7,098	7,119	7,092	7,006	6,917	6,827
VAN ZANDT	12,140	13,130	14,125	15,147	16,207	17,286
WOOD	12,773	13,200	13,537	14,012	14,503	15,009
<b>REGION TOTAL</b>	<b>389,550</b>	<b>399,025</b>	<b>407,468</b>	<b>415,054</b>	<b>422,546</b>	<b>430,678</b>

Table 2.6 Total Water Demand Projections by River Basin (acre-feet)

River Basin	2030	2040	2050	2060	2070	2080
CYPRESS	95,668	96,942	98,120	99,326	100,584	101,854
NECHES	2,766	2,909	3,036	3,141	3,220	3,273
RED	24,924	24,897	24,877	24,855	24,864	24,887
SABINE	161,385	167,702	173,008	177,434	181,585	186,258
SULPHUR	102,140	103,549	105,031	106,488	108,041	109,670
TRINITY	2,667	3,026	3,396	3,810	4,252	4,736
Total Water Demand (ac-ft)	1,168,650	1,197,075	1,222,404	1,245,162	1,267,638	1,292,034

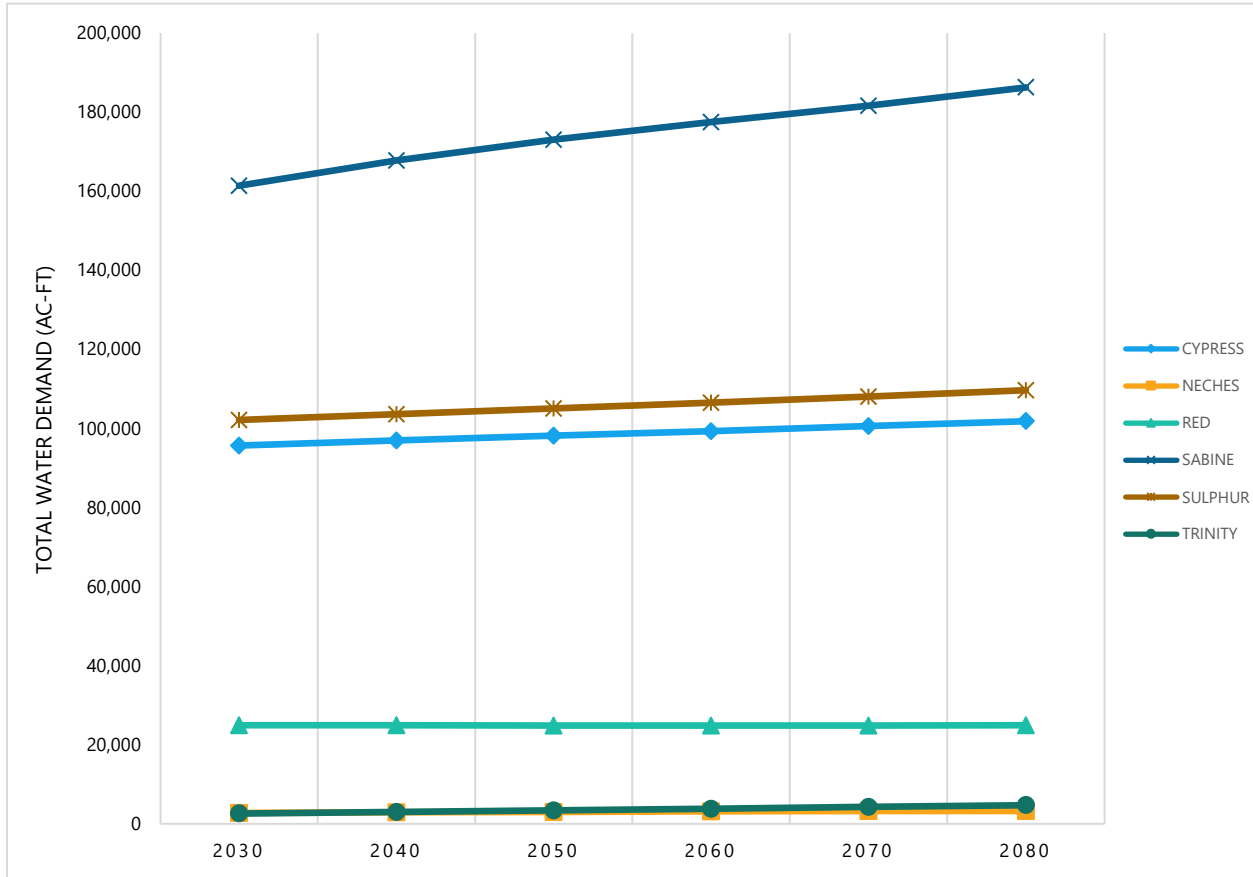


Figure 2.5 Water Demand Projections by River Basin

### 2.3.1 Municipal Water Demand

Municipal water use is comprised of residential (single and multifamily housing) and commercial/institutional water uses. Commercial use includes water used by business establishments, public offices, and institutions, but does not include industrial water use. The TWDB has grouped residential, commercial, and institutional water use into the municipal category because of the similarity of usage. Each of the three requires water primarily for drinking, cleaning, sanitation, air cooling and outdoor use.

#### 2.3.1.1 Methodology

Municipal water demand was calculated for each of the WUGs designated in the population projection portion of the study. The municipal water demand projections are based on population and per capita water usage (gpcd).

- Reported municipal water use data through the TWDB Water Use Survey for the designated-identified dry year (e.g.i.e., 2011) is used to calculate the base per capita water use for each WUG.

- For planning purposes in previous rounds, the North East Texas Regional Water Planning Group (NETRWPG) employed a minimum baseline per capita water use rate of 115 gpcd for entities with current municipal water demand below that level. Historical records indicate that communities use more water as they become more affluent and as a steady supply of water is available. However, this assumption has not been used for this present round of planning, as TWDB has employed a minimum baseline per capita water use rate of 60 gpcd.
  - A. Municipal demands have incorporated water savings due to the installation of water efficient plumbing fixtures and appliances. These amounts have been subtracted from the base gpcd [for each projected decade](#). The recommended reductions in gpcd from the base year are mandated in State and Federal Legislation. Recommended savings were based on a state-wide formula.
  - B. After subtraction of plumbing code savings from the per capita water demand for each planning year, the average per capita water demand per WUG was multiplied by the WUG’s projected population for that decade to obtain a projected decadal water demand.

### 2.3.1.2 Regional Municipal Water Demand Projections

Approximately ~~30% to~~ 40% of the total regional water demand is for municipal purposes. Municipal water demand for the North East Texas Region is projected to increase by approximately ~~73,600~~[19,506](#) acre-feet, or ~~57.12%~~ over the fifty year planning period (20~~32~~[20](#) to 20~~87~~[70](#)). Table 2.7 and Table 2.8 summarize the projected municipal water demand by county and by river basin for the region. Municipal water demand is currently concentrated in Gregg, Bowie, Harrison, and Hunt Counties. Driven by the large population growth, Hunt County municipal water demand is projected to grow by approximately ~~200~~[36](#)% through the year 20~~87~~[70](#).

A more refined breakdown of demand for each WUG can be found in Appendix C2-2, while estimated water efficiency savings per specific WUG can be found in Appendix C2-3.

Table 2.7 [Municipal Water Demand by County \(acre-feet\)](#)

County	2030	2040	2050	2060	2070	2080
BOWIE	13,907	13,762	13,652	13,453	13,253	13,047
CAMP	1,583	1,593	1,597	1,610	1,624	1,638
CASS	3,458	3,280	3,103	2,960	2,819	2,677
DELTA	759	756	751	743	735	726
FRANKLIN	1,801	1,781	1,757	1,769	1,783	1,794
GREGG	32,717	33,054	33,240	33,085	32,923	32,780
HARRISON	11,673	11,867	11,930	11,944	11,963	11,958
HOPKINS	7,187	7,385	7,563	7,722	7,873	8,033
HUNT	31,193	34,290	36,849	38,764	40,313	42,320
LAMAR	7,547	7,529	7,495	7,459	7,425	7,390
MARION	1,055	983	911	862	812	763
MORRIS	1,649	1,613	1,568	1,538	1,506	1,467
RAINS	2,351	2,458	2,572	2,697	2,819	2,944
RED RIVER	1,830	1,677	1,529	1,411	1,292	1,169

County	2030	2040	2050	2060	2070	2080
SMITH	9,200	9,779	10,215	10,523	10,838	11,155
TITUS	6,499	6,815	7,035	7,251	7,457	7,657
UPSHUR	5,623	5,641	5,611	5,522	5,430	5,336
VAN ZANDT	9,238	10,207	11,181	12,181	13,218	14,273
WOOD	7,319	7,636	7,859	8,217	8,587	8,968
<b>REGION TOTAL</b>	<b>156,589</b>	<b>162,106</b>	<b>166,418</b>	<b>169,711</b>	<b>172,670</b>	<b>176,095</b>

Table 2.8 Municipal Water Demand by River Basin (acre-feet)

River Basin	2030	2040	2050	2060	2070	2080
CYPRESS	22,197	22,258	22,177	22,077	21,977	21,863
NECHES	1,598	1,729	1,843	1,935	2,001	2,041
RED	6,596	6,550	6,501	6,443	6,387	6,327
SABINE	91,496	96,278	100,048	102,944	105,511	108,563
SULPHUR	28,668	28,552	28,433	28,226	28,003	27,760
TRINITY	2,028	2,374	2,732	3,133	3,563	4,034
<b>REGION TOTAL</b>	<b>152,583</b>	<b>157,741</b>	<b>161,734</b>	<b>164,758</b>	<b>167,442</b>	<b>170,588</b>

## 2.3.2 Industrial Water Demand

Water used in the production of manufactured products, steam-electric power generation and mining activities, including water used by employees for drinking and sanitation, are included in the Industrial Water Use Category. Water demands have been divided into these three sub-categories for greater clarity.

### 2.3.2.1 Methodology

Like municipal water demand, the TWDB recommended water demand projections for manufacturing, steam-electric power generation, and mining to the NETRWPG. The NETRWPG further evaluated water demand estimates from the TWDB industrial and mining water use database by surveying WUGs to update water demand information and adding known water users not previously included. This updated information was obtained largely through surveys of water providers who supplied water to manufacturing facilities. The recommended demands were revised as necessary and approved for presentation to the TWDB by the Planning Group. The methods employed for each water use category, as well as the resultant projections, are described below.

### 2.3.2.2 Regional Manufacturing Demand Projections

[Per TWDB Guidelines, manufacturing water use is defined as water used to produce manufactured goods. Manufacturing facilities report their water use to the TWDB annually through the Water Use Survey. Different manufacturing sectors are denoted by North American Industrial Classification System \(NAICS\) codes. The baseline for draft manufacturing water demand projections is based on the highest county-aggregated manufacturing water use in the most recent five years \(2015-2019\), plus estimated](#)

~~unaccounted water use. The most recent 10- year historical number of establishments from the U.S. Census Bureau County Business Pattern data or other relevant economic measures available are used as proxy for growth between 2030 and 2080. For manufacturing, the 2020 water demand projections for each county are based on the highest county aggregated manufacturing water use in the most recent five years (2010–2014). The most recent 10-year projections for employment growth from the Texas Workforce Commission are used as proxy for growth by manufacturing sectors between 2020 and 2030. The water use within each North American Industry Classification System (NAICS) category is multiplied by the employment growth rate. In cases where the employment is projected to decrease for a three-digit NAICS sector, the water demand projections are held constant. After 2030, the manufacturing water demand is held constant through 2070. Water use estimates are developed through the TWDB’s annual Water Use Survey.~~

Over the fifty year period from 2030 to 2080, 25.28% to 22.30% of the total water demand in the North East Texas Region is projected to be manufacturing demand. Overall manufacturing water demand for the region is projected to slightly grow by approximately 2.05% over the 2030 to 2080 planning period. Harrison, Cass, and Morris counties currently have the greatest demand for water used for manufacturing purposes.

The three largest water using industries in the region, in order of size, are:

- Graphics Packaging International (GPI, formerly International Paper).
- U.S. Steel.
- Eastman Chemical Company.

Table 2.9 Manufacturing Demand by County (acre-feet)

County	2030	2040	2050	2060	2070	2080
BOWIE	1,835	1,903	1,974	2,047	2,123	2,202
CAMP	44	46	48	50	52	54
CASS	36,152	37,490	38,877	40,315	41,807	43,354
DELTA	0	0	0	0	0	0
FRANKLIN	0	0	0	0	0	0
GREGG	1,552	1,610	1,670	1,732	1,796	1,863
HARRISON	25,986	26,952	27,954	28,993	30,071	31,189
HOPKINS	1042	1081	1121	1163	1206	1251
HUNT	635	659	684	709	735	762
LAMAR	5,510	5,715	5,928	6,148	6,377	6,614
MARION	151	157	163	169	175	181
MORRIS	27,561	28,586	29,649	30,751	31,894	33,080
RAINS	1	1	1	1	1	1
RED RIVER	3	3	3	3	3	3
SMITH	19	20	21	22	23	24
TITUS	4,455	4,621	4,793	4,971	5,156	5,348
UPSHUR	85	88	91	94	97	101

County	2030	2040	2050	2060	2070	2080
VAN ZANDT	556	577	598	620	643	667
WOOD	2,912	3,020	3,132	3,248	3,368	3,493
<b>REGION TOTAL</b>	<b>108,499</b>	<b>112,529</b>	<b>116,707</b>	<b>121,036</b>	<b>125,527</b>	<b>130,187</b>

Table 2.10 Manufacturing Water Demand by River Basin (acre-ft)

River Basin	2030	2040	2050	2060	2070	2080
CYPRESS	32,270	33,471	34,717	36,007	37,346	38,733
NECHES	0	0	0	0	0	0
RED RIVER	1529	1586	1644	1705	1769	1834
SABINE	31,682	32,861	34,081	35,347	36,659	38,023
SULPHUR	42,999	44,591	46,244	47,955	49,730	51,573
TRINITY	0	0	0	0	0	0
<b>REGION TOTAL</b>	<b>108,480</b>	<b>112,509</b>	<b>116,686</b>	<b>121,014</b>	<b>125,504</b>	<b>130,163</b>

### 2.3.2.3 Regional Steam Electric Demand Projections

Per TWDB Guidelines, water use for steam-electric power generation is consumptive use reported to the TWDB through the annual Water Use Survey. Steam-electric power water demand projections do not include water used in cogeneration facilities (included in manufacturing projections) or facilities which do not require water for production (wind, solar, dry-cooled generation), or hydro-electric generation facilities. The baselines for draft water demand projections are based on the highest county-aggregated historical steam-electric power water use in the most recent five years (2015- 2019). Subsequent demand projections after 2030 are held constant throughout the planning period. The anticipated water use of future facilities listed in state and federal reports is added to the demand projections from the anticipated operation date through 2080. The reported water use of power generation facilities scheduled for retirement in the state and federal reports is subtracted from the baseline or the decade in which they are projected to retire. For steam-electric power generation projections, the 2020 water demand projections for each county are based on the highest county-aggregated historical steam-electric power water use in the most recent five years (2010–2014). The anticipated water use of future facilities listed in state and federal reports is added to the demand projections from the anticipated operation date until 2070. Subsequent demand projections after 2020 are held constant throughout the planning period. Water use estimates are developed through the TWDB’s annual Water Use Survey.

Annual steam electric water demand is projected to remain constant from the year 20230 to 20870. In 20320, steam electric power generation projections represent approximately 2316% of water demand for this Region. By 20870 steam electric is anticipated to require 2015% of the region’s water demand.

Table 2.11 Steam Electric Water Demand by County (acre-ft)

County	2030	2040	2050	2060	2070	2080
BOWIE	0	0	0	0	0	0
CAMP	0	0	0	0	0	0

County	2030	2040	2050	2060	2070	2080
CASS	0	0	0	0	0	0
DELTA	0	0	0	0	0	0
FRANKLIN	0	0	0	0	0	0
GREGG	940	940	940	940	940	940
HARRISON	23,145	23,145	23,145	23,145	23,145	23,145
HOPKINS	0	0	0	0	0	0
HUNT	373	373	373	373	373	373
LAMAR	5,706	5,706	5,706	5,706	5,706	5,706
MARION	4,257	4,257	4,257	4,257	4,257	4,257
MORRIS	50	50	50	50	50	50
RAINS	0	0	0	0	0	0
RED	0	0	0	0	0	0
SMITH	0	0	0	0	0	0
TITUS	29,541	29,541	29,541	29,541	29,541	29,541
UPSHUR	0	0	0	0	0	0
VAN ZANDT	0	0	0	0	0	0
WOOD	0	0	0	0	0	0
<b>REGION TOTAL</b>	<b>64,012</b>	<b>64,012</b>	<b>64,012</b>	<b>64,012</b>	<b>64,012</b>	<b>64,012</b>

Table 2.12 Steam Electric Water Demand by River Basin (acre-ft)

River Basin	2030	2040	2050	2060	2070	2080
CYPRESS	33,848	33,848	33,848	33,848	33,848	33,848
NECHES	0	0	0	0	0	0
RED	386	386	386	386	386	386
SABINE	24,458	24,458	24,458	24,458	24,458	24,458
SULPHUR	5,320	5,320	5,320	5,320	5,320	5,320
TRINITY	0	0	0	0	0	0
<b>REGION TOTAL</b>	<b>64,012</b>	<b>64,012</b>	<b>64,012</b>	<b>64,012</b>	<b>64,012</b>	<b>64,012</b>

### 2.3.2.4 Regional Mining Demand Projections

[Per TWDB Guidelines, mining water demand includes water used for oil and gas development, as well as extraction of coal and lignite, sand aggregate, and other resources. Projections do not include water use required for the transportation or refining of materials. The TWDB’s annual mining water use estimates are comprised of data from both surveyed and non-surveyed entities and are based on the mining study conducted in partnership with the U.S. Geological Survey and the University of Texas Bureau of Economic Geology. Mining water demand projections were carried forward from the 2017 State Water Plan and based largely on a 2012 TWDB-contracted study, “Oil & Gas Water Use in Texas: Update to the 2011](#)

~~Mining Water Use Report,” by the Bureau of Economic Geology (BEG).~~ The BEG estimated recent mining water use and projected the use across the planning horizon using data collected from trade organizations, government agencies, and other industry representatives. County-level projections were developed as the sum of individual projections for four sub-sector mining categories: oil and gas, aggregates, coal and lignite, and other. Water use estimates are developed through the TWDB’s annual Water Use Survey and FracFocus.

Mining water demand represents a very small portion of the regional water demand (about 12%). Annual water demand for mining purposes is anticipated to grow ~~first and then decrease~~ by about 4.56% for the fifty year period from 20320 to 20870. Mining water demand is largest in Harrison County, ~~and is projected to be largest in Titus County by 2070.~~ TWDB relied on a prior study with the BEG at the University of Texas at Austin to prepare mining water demand projections for each planning region.

Table 2.13 Mining Water Demand by County (acre-ft)

County	2030	2040	2050	2060	2070	2080
BOWIE	1981	1998	2088	2164	2225	2272
CAMP	0	0	0	0	0	0
CASS	35	35	35	35	35	35
DELTA	0	0	0	0	0	0
FRANKLIN	0	0	0	0	0	0
GREGG	82	82	82	82	82	82
HARRISON	2,691	2,691	2,691	2,691	2,691	2,691
HOPKINS	2	2	2	2	2	2
HUNT	0	0	0	0	0	0
LAMAR	0	0	0	0	0	0
MARION	24	24	24	24	24	24
MORRIS	0	0	0	0	0	0
RAINS	0	0	0	0	0	0
RED	0	0	0	0	0	0
SMITH	0	0	0	0	0	0
TITUS	0	0	0	0	0	0
UPSHUR	139	139	139	139	139	139
VAN ZANDT	6	6	6	6	6	6
WOOD	347	349	351	352	353	353
<b>REGION TOTAL</b>	<b>5,307</b>	<b>5,326</b>	<b>5,418</b>	<b>5,495</b>	<b>5,557</b>	<b>5,604</b>

Table 2.14 Mining Water Demand by Basin (acre-ft)

River Basin	2030	2040	2050	2060	2070	2080
CYPRESS	801	801	801	801	801	801
NECHES	0	0	0	0	0	0



River Basin	2030	2040	2050	2060	2070	2080
RED	753	760	794	823	846	864
SABINE	2,525	2,527	2,529	2,530	2,531	2,531
SULPHUR	1228	1238	1294	1,341	1,379	1,408
TRINITY	0	0	0	0	0	0
<b>REGION TOTAL</b>	<b>5,307</b>	<b>5,326</b>	<b>5,418</b>	<b>5,495</b>	<b>5,557</b>	<b>5,604</b>

### 2.3.3 Livestock Demand

Livestock water demand is the water consumed in the production of cattle, hogs, pigs, sheep, goats, chickens and horses.

#### 2.3.3.1 Methodology

Livestock water use was defined as water used in the production of livestock, both for drinking and for cleaning or environmental purposes. The 2020 water demand projections for each county are based on the average of the most recent five years (2010-2016) of water use estimates. Water use estimates are calculated by applying a water use coefficient for each livestock category to county level inventory estimates from the Texas Agricultural Statistics Service. The rate of change for projections from the 2017-2021 Regional Water Plans was then applied to the new base.

#### 2.3.3.2 Regional Livestock Water Demand Projections

Livestock water demand is projected to be approximately 69% of water demand in the North East Texas Region in the year 2030. Livestock water demand is expected to remain relatively constant over the 50-year planning period, with a reduction to 27% of the Region's water demand by 2070. Livestock water demand is spread relatively evenly throughout the region with Hopkins County having the largest demand of approximately 5,498,253 acre-feet annually. Tables 2.15 and 2.16 present livestock water demand for Region D.

Table 2.15 Livestock Water Demand by County (acre-ft)

County	2030	2040	2050	2060	2070	2080
BOWIE	1,321	1,199	1,028	880	821	821
CAMP	1,448	1,448	1,448	1,448	1,448	1,448
CASS	792	792	792	792	792	792
DELTA	511	511	511	511	511	511
FRANKLIN	1,354	1,354	1,354	1,354	1,354	1,354
GREGG	179	179	179	179	179	179
HARRISON	627	658	690	725	764	764
HOPKINS	4,253	4,253	4,253	4,253	4,253	4,253
HUNT	1,222	1,222	1,222	1,222	1,222	1,222
LAMAR	1,628	1,628	1,628	1,628	1,628	1,628

County	2030	2040	2050	2060	2070	2080
MARION	169	169	169	169	169	169
MORRIS	586	586	586	586	586	586
RAINS	503	503	503	503	503	503
RED RIVER	1,592	1,592	1,592	1,592	1,592	1,592
SMITH	465	465	465	465	465	465
TITUS	1,173	1,173	1,173	1,173	1,173	1,173
UPSHUR	1,108	1,108	1,108	1,108	1,108	1,108
VAN ZANDT	1,934	1,934	1,934	1,934	1,934	1,934
WOOD	1,670	1,670	1,670	1,670	1,670	1,670
<b>REGION TOTAL</b>	<b>22,535</b>	<b>22,444</b>	<b>22,305</b>	<b>22,192</b>	<b>22,172</b>	<b>22,172</b>

Table 2.16 Livestock Water Demand by River Basin (acre-feet)

River Basin	2030	2040	2050	2060	2070	2080
CYPRESS	5,791	5,809	5,827	5,846	5,868	5,868
NECHES	628	628	628	628	628	628
RED	1,564	1,519	1,456	1,402	1,380	1,380
SABINE	5,511	5,524	5,538	5,554	5,571	5,571
SULPHUR	8,052	7,975	7,867	7,773	7,736	7,736
TRINITY	524	524	524	524	524	524
<b>REGION TOTAL</b>	<b>22,070</b>	<b>21,979</b>	<b>21,840</b>	<b>21,727</b>	<b>21,707</b>	<b>21,707</b>

### 2.3.4 Irrigation Demand

Per TWDB Guidelines, irrigation water demand projections include the water necessary for irrigation activities, primarily field crops, but also include orchards, pasture, turf grass farms, vineyards, and self-supplied golf courses. Note that for the purposes of regional water planning, irrigation demands account for the amount of water pumped for irrigation, not the water needed or used by the crop or associated with dry-land farming. TWDB annual irrigation water use estimates are produced by calculating a crop water need based on evapotranspiration and other climatic factors. This need per acre is then applied to irrigated acreage data obtained from the USDA Farm Service Agency in order to determine estimated irrigation water use by TWDB crop category. These estimates are then made available to Groundwater Conservation Districts (GCDs) for comment, although in the North Texas Region no GCDs presently exist.

#### 2.3.4.1 Methodology

The baseline methodology for irrigation water demand projections-The baseline methodology for the development of irrigation water demand projections is the average of the most recent five-years (2015-2019) of water use estimates held constant between 2030 and 2080. In counties where the total groundwater availability over the planning period is projected to be less than the groundwater-portion of the baseline water demand projections, the draft irrigation water demand projections will begin to decline

starting in 2040, or a later decade, commensurate with the decline in the associated groundwater availability.

is the average of the most recent five years (2010–2014) of water use estimates that is then held constant between 2020 and 2070. In counties where the total groundwater availability over the planning period is projected to be less than the groundwater portion of the baseline water demand projections, the irrigation water demand projections begin to decline in 2030 or later, commensurate with the groundwater availability. Annual water use estimates were developed at the county level by applying a calculated evapotranspiration-based "crop water need" estimate to reported irrigated acreage from the Farm Service Agency. These estimates are then adjusted based on surface water release data from the TCEQ and comments from groundwater conservation districts (although none presently exist within Region D), irrigation districts, and river authorities. The adopted projections took into consideration requested adjustments by regional water planning groups based upon required criteria and supporting data. Any economic, technical, and/or water supply-related evidence showing cause for adjustment in the future rate of change in irrigation water use was utilized where available.

### 2.3.4.2 Regional Irrigation Water Demand Projections

Irrigation water represented approximately 9% of water demand in the North East Texas Region in 2016. Projected irrigation water demand similarly represents approximately 89% of the projected water demand in the year 20320. Irrigation demand is projected to remain relatively constant over the 50 year planning period, with a reduction in percentage to around 7% of the Region's total water demand by 2070.

Irrigation water demand is concentrated in Lamar, Red River, Bowie, Hopkins and Delta Counties. Tables 2.17 and 2.18 present irrigation water demand for Region D.

Table 2.17 Irrigation Water Demand by County (acre-ft)

County	2030	2040	2050	2060	2070	2080
BOWIE	10,067	10,067	10,067	10,067	10,067	10,067
CAMP	5	5	5	5	5	5
CASS	0	0	0	0	0	0
DELTA	3,049	3,049	3,049	3,049	3,049	3,049
FRANKLIN	138	138	138	138	138	138
GREGG	33	33	33	33	33	33
HARRISON	560	560	560	560	560	560
HOPKINS	3,910	3,910	3,910	3,910	3,910	3,910
HUNT	316	316	316	316	316	316
LAMAR	8,095	8,095	8,095	8,095	8,095	8,095
MARION	5	5	5	5	5	5
MORRIS	10	10	10	10	10	10
RAINS	60	60	60	60	60	60
RED	3,783	3,783	3,783	3,783	3,783	3,783
SMITH	311	311	311	311	311	311
TITUS	1,192	1,192	1,192	1,192	1,192	1,192

County	2030	2040	2050	2060	2070	2080
UPSHUR	143	143	143	143	143	143
VAN ZANDT	406	406	406	406	406	406
WOOD	525	525	525	525	525	525
<b>REGION TOTAL</b>	<b>32,608</b>	<b>32,608</b>	<b>32,608</b>	<b>32,608</b>	<b>32,608</b>	<b>32,608</b>

Table 2.18 Irrigation Water Demand by River Basin (acre-ft)

River Basin	2030	2040	2050	2060	2070	2080
CYPRESS	730	730	730	730	730	730
NECHES	406	406	406	406	406	406
RED	14,094	14,094	14,094	14,094	14,094	14,094
SABINE	1,184	1,184	1,184	1,184	1,184	1,184
SULPHUR	15,873	15,873	15,873	15,873	15,873	15,873
TRINITY	10	10	10	10	10	10
<b>REGION TOTAL</b>	<b>32,297</b>	<b>32,297</b>	<b>32,297</b>	<b>32,297</b>	<b>32,297</b>	<b>32,297</b>

### 2.3.5 Demands Associated with Major Water Providers by Category of Use

Demands may also be disaggregated based upon the provision of supply from a Major Water Provider (MWP). Table 2.19 and Table 2.20 presents projected demands associated with each MWP in the North East Texas Region by category of water use. Table 2.19 presents the contractual amounts of demand for each MWP customer, aggregated by each MWP in Region D. This provides a reference as to how much demand has been contracted by each MWP. Table 2.20 provides the projected demands from each customer upon the respective MWP, based upon each individual WUG’s [projected](#) demands as adopted by for the purposes of the [2021-2026](#) Region D Plan per TWDB guidelines. Note that for MWPs that are also a WUG (denoted as a WUG/SELLER below), the demands presented below represent contractual demands, and thus do not reflect demands from the WUG itself. It should again be noted that Major Water Providers (MWPs) have been designated to be the same as Wholesale Water Providers (WWPs) for the purposes of the [2021-2026](#) Region D Plan.

Table 2.19 Projected Demands by Major Water Provider in terms of Contract Demand

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Bi County WSC	MWP	Manufacturing	Camp	Cypress	2	2	2	2	2	2
Bi County WSC	MWP	Steam Electric Power	Titus	Cypress	3	3	3	3	3	3
Bright Star Salem SUD	MWP	Municipal	Rains	Sabine	90	90	90	90	90	90
Cash SUD	MWP	Municipal	Hunt	Sabine	67	67	67	67	67	67
Cash SUD	MWP	Municipal	Hunt	Sabine	181	358	582	960	1,603	1,620
Cash SUD	MWP	Municipal	Hunt	Sulphur	369	531	578	802	1,143	1,126
Cash SUD	MWP	Municipal	Hunt	Trinity	0	0	0	0	0	0
Cash SUD	MWP	Municipal	Hunt	Sabine	605	605	605	605	605	605
Cherokee Water Company	MWP	Municipal	Gregg	Sabine	15,659	15,640	15,634	15,600	15,567	15,540
Cherokee Water Company	MWP	Municipal	Harrison	Sabine	341	360	366	400	433	460
Cherokee Water Company	MWP	Steam Electric Power	Gregg	Sabine	2,000	2,000	2,000	2,000	2,000	2,094
Commerce	MWP	Municipal	Delta	Sulphur	74	74	74	74	74	74
Commerce	MWP	Municipal	Hopkins	Sulphur	3	3	3	3	3	3
Commerce	MWP	Municipal	Delta	Sulphur	49	54	47	54	55	55
Commerce	MWP	Municipal	Hunt	Sulphur	586	582	586	580	578	575
Commerce	MWP	Municipal	Hunt	Sulphur	1	1	1	1	1	1
Cooper	MWP	Municipal	Delta	Sulphur	41	42	41	40	38	37
Cooper	MWP	Municipal	Delta	Sulphur	41	42	41	40	38	37
Cooper	MWP	Municipal	Hunt	Sabine	2	3	4	6	10	11
Cooper	MWP	Municipal	Hunt	Sabine	1	1	1	2	3	4
Cooper	MWP	Municipal	Hunt	Sulphur	1	1	1	2	3	4
Cooper	MWP	Municipal	Hunt	Trinity	1	1	1	2	3	4
Cooper	MWP	Municipal	Delta	Sulphur	191	194	196	199	201	102

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Cooper	MWP	Municipal	Delta	Sulphur	0	0	0	0	0	102
County-Other, Upshur	WUG Seller	Irrigation	Upshur	Cypress	350	350	350	350	350	350
Emory	MWP	Municipal	Rains	Sabine	773	773	773	773	773	773
Emory	MWP	Municipal	Rains	Sabine	192	188	187	187	188	188
Farmersville	WUG Seller	Municipal	Hunt	Sabine	14	14	19	27	33	47
Farmersville	WUG Seller	Municipal	Hunt	Sabine	21	17	18	22	29	42
Farmersville	WUG Seller	Municipal	Hunt	Sabine	60	46	50	60	71	98
Farmersville	WUG Seller	Municipal	Hunt	Sabine	3	1	2	1	2	2
Franklin County WD	MWP	Municipal	Franklin	Cypress	2,265	2,219	2,171	2,136	2,103	2,066
Franklin County WD	MWP	Municipal	Franklin	Sulphur	1,194	1,172	1,150	1,136	1,118	1,103
Franklin County WD	MWP	Municipal	Hopkins	Cypress	224	232	237	238	239	240
Franklin County WD	MWP	Municipal	Hopkins	Sulphur	352	365	370	371	373	374
Franklin County WD	MWP	Municipal	Titus	Cypress	131	152	186	207	227	255
Franklin County WD	MWP	Municipal	Titus	Sulphur	96	111	133	149	167	184
Franklin County WD	MWP	Municipal	Wood	Cypress	237	248	253	263	273	279
Franklin County WD	MWP	Municipal	Franklin	Sulphur	3,000	3,000	3,000	3,000	3,000	3,000
Franklin County WD	MWP	Municipal	Franklin	Cypress	454	441	430	423	417	411
Franklin County WD	MWP	Municipal	Wood	Cypress	753	759	764	770	770	775
Franklin County WD	MWP	Municipal	Wood	Sabine	793	800	805	807	812	814
Gladewater	MWP	Municipal	Gregg	Sabine	154	154	154	154	154	54
Gladewater	MWP	Municipal	Smith	Sabine	23	23	23	23	23	23
Gladewater	MWP	Municipal	Upshur	Cypress	84	83	83	83	82	82
Gladewater	MWP	Municipal	Upshur	Sabine	28	29	29	29	30	30
Grand Saline	MWP	Manufacturing	Van Zandt	Sabine	15	15	15	15	14	14

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Greenville	MWP	Municipal	Hunt	Sabine	1,129	1,129	1,129	1,129	1,129	1,129
Greenville	MWP	Municipal	Hunt	Sabine	806	806	806	806	806	806
Greenville	MWP	Manufacturing	Hunt	Sabine	85	87	89	94	91	103
Greenville	MWP	Manufacturing	Hunt	Sabine	712	878	1,057	1,225	1,347	1,521
Greenville	MWP	Municipal	Hunt	Sabine	1,064	1,062	1,060	1,059	1,062	1,061
Greenville	MWP	Municipal	Hunt	Sulphur	65	67	69	70	67	68
Greenville	MWP	Steam Electric Power	Hunt	Sabine	373	373	373	373	373	373
Hooks	WUG Seller	Municipal	Bowie	Red	201	199	196	194	193	193
Hughes Springs	MWP	Municipal	Cass	Cypress	54	55	57	58	60	61
Hughes Springs	MWP	Municipal	Morris	Cypress	38	37	35	34	32	31
Kilgore	MWP	Municipal	Gregg	Cypress	25	27	30	34	36	37
Kilgore	MWP	Municipal	Gregg	Sabine	596	636	700	774	864	863
Kilgore	MWP	Municipal	Gregg	Sabine	37	39	41	45	49	48
Lamar County WSD	MWP	Municipal	Red River	Red	94	92	92	91	92	92
Lamar County WSD	MWP	Municipal	Red River	Sulphur	124	121	120	120	119	119
Lamar County WSD	MWP	Municipal	Lamar	Sulphur	230	245	245	245	245	245
Lamar County WSD	MWP	Municipal	Lamar	Red	24	25	24	24	24	24
Lamar County WSD	MWP	Municipal	Lamar	Sulphur	256	260	259	257	255	255
Lamar County WSD	MWP	Municipal	Red River	Red	76	75	75	74	70	70
Lamar County WSD	MWP	Municipal	Red River	Sulphur	174	172	172	173	177	177
Lamar County WSD	MWP	Manufacturing	Lamar	Red	900	941	976	1,042	1,077	1,077
Lamar County WSD	MWP	Municipal	Red River	Red	323	323	323	323	323	323
Lamar County WSD	MWP	Municipal	Lamar	Red	47	49	53	57	61	62
Lamar County WSD	MWP	Municipal	Lamar	Sulphur	652	705	761	816	874	873
Longview	MWP	Municipal	Gregg	Cypress	2	2	2	2	2	2
Longview	MWP	Municipal	Gregg	Sabine	48	48	48	48	48	48

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Longview	MWP	Municipal	Gregg	Sabine	528	532	537	544	533	535
Longview	MWP	Municipal	Gregg	Sabine	536	541	546	550	575	577
Longview	MWP	Municipal	Harrison	Cypress	37	37	37	37	37	37
Longview	MWP	Municipal	Harrison	Cypress	144	144	144	144	144	144
Longview	MWP	Municipal	Harrison	Cypress	385	385	385	385	386	386
Longview	MWP	Municipal	Harrison	Sabine	157	157	157	157	157	157
Longview	MWP	Municipal	Harrison	Sabine	602	602	602	602	602	602
Longview	MWP	Municipal	Harrison	Sabine	1,615	1,615	1,615	1,615	1,614	1,614
Longview	MWP	Municipal	Harrison	Sabine	689	689	689	689	689	689
Longview	MWP	Municipal	Harrison	Sabine	416	416	416	416	416	416
Longview	MWP	Manufacturing	Gregg	Sabine	1,092	1,094	1,094	1,094	1,094	1,094
Longview	MWP	Manufacturing	Harrison	Sabine	7,726	7,726	7,726	7,726	7,726	7,726
Longview	MWP	Manufacturing	Harrison	Sabine	618	618	618	618	618	618
Longview	MWP	Steam Electric Power	Harrison	Sabine	6,161	6,161	6,161	6,161	6,161	6,161
Longview	MWP	Municipal	Gregg	Sabine	5,600	5,600	5,600	5,600	5,600	5,600
Manufacturing, Cass	WUG Seller	Municipal	Cass	Cypress	2,319	2,321	2,320	2,320	2,319	2,319
Manufacturing, Cass	WUG Seller	Municipal	Cass	Sulphur	9	7	8	8	9	9
Manufacturing, Cass	WUG Seller	Municipal	Cass	Sulphur	44	44	44	44	44	44
Marshall	MWP	Municipal	Harrison	Cypress	278	280	281	283	285	284
Marshall	MWP	Municipal	Harrison	Sabine	45	43	42	40	38	39
Marshall	MWP	Municipal	Harrison	Sabine	69	71	73	73	74	75
Marshall	MWP	Manufacturing	Harrison	Sabine	2,000	2,000	2,000	2,000	2,000	2,000
Mount Pleasant	MWP	Municipal	Franklin	Sulphur	14	16	17	17	17	17
Mount Pleasant	MWP	Municipal	Titus	Cypress	344	372	388	405	424	445
Mount Pleasant	MWP	Municipal	Titus	Sulphur	344	372	388	405	424	445



Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Mount Pleasant	MWP	Manufacturing	Titus	Cypress	2,795	2,859	2,922	2,933	3,067	3,101
Mount Pleasant	MWP	Manufacturing	Titus	Cypress	550	550	550	550	550	550
Mount Pleasant	MWP	Municipal	Morris	Cypress	155	185	200	216	224	219
Mount Pleasant	MWP	Municipal	Titus	Cypress	1,002	1,334	1,676	2,016	2,362	2,715
Mount Pleasant	MWP	Municipal	Titus	Sulphur	570	760	953	1,148	1,345	1,546
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	7	9	10	12	13	14
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	9	10	10	11	11	12
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	25	26	27	27	27	29
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	1	1	1	2	2	2
North Texas MWD	WUG Seller	Municipal	Van Zandt	Sabine	2	2	3	3	3	3
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	84	121	156	192	218	244
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	124	139	155	169	187	207
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	349	382	411	434	467	495
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	12	14	14	16	15	18
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	263	292	398	460	475	532
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	392	343	395	402	405	449
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	1,096	938	1,047	1,037	1,008	1,078
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	39	33	35	37	35	37
North Texas MWD	WUG Seller	Municipal	Hopkins	Sabine	2	3	4	6	15	17

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
North Texas MWD	WUG Seller	Municipal	Hopkins	Sabine	3	4	4	5	13	14
North Texas MWD	WUG Seller	Municipal	Hopkins	Sabine	8	9	10	12	30	32
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	177	266	357	448	406	400
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	262	310	353	391	349	339
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	736	845	937	1,009	869	819
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	26	30	32	35	30	28
North Texas MWD	WUG Seller	Municipal	Rains	Sabine	8	12	17	24	67	70
North Texas MWD	WUG Seller	Municipal	Rains	Sabine	12	14	17	22	57	63
North Texas MWD	WUG Seller	Municipal	Rains	Sabine	35	38	46	57	140	150
North Texas MWD	WUG Seller	Municipal	Rains	Sabine	1	2	2	2	5	5
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	4	7	9	11	13	14
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	8	7	9	9	11	12
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	20	22	24	25	26	28
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	1	1	1	2	2	2
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	91	162	236	318	385	454
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	135	188	233	278	331	386
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	379	513	621	717	821	924

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	13	18	21	25	28	32
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	0	0	0	0	0	0
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	0	0	0	0	0	0
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	302	302	302	302	302	302
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	0	0	0	0	0	0
Northeast Texas MWD	MWP	Municipal	Marion	Cypress	828	828	828	828	828	828
Northeast Texas MWD	MWP	Municipal	Morris	Cypress	7,375	7,375	7,375	7,375	7,375	7,375
Northeast Texas MWD	MWP	Municipal	Harrison	Cypress	50	48	44	42	40	38
Northeast Texas MWD	MWP	Municipal	Marion	Cypress	60	46	36	29	22	17
Northeast Texas MWD	MWP	Municipal	Upshur	Cypress	629	645	658	668	677	684
Northeast Texas MWD	MWP	Municipal	Harrison	Cypress	256	265	273	280	286	294
Northeast Texas MWD	MWP	Municipal	Marion	Cypress	59	50	42	35	29	21
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	3,058	3,058	3,058	3,058	3,058	3,058
Northeast Texas MWD	MWP	Municipal	Marion	Cypress	7,031	7,031	7,031	7,031	7,031	7,031
Northeast Texas MWD	MWP	Municipal	Morris	Cypress	3,482	3,482	3,482	3,482	3,482	3,482
Northeast Texas MWD	MWP	Municipal	Gregg	Sabine	18,994	18,916	18,891	18,778	18,673	18,595
Northeast Texas MWD	MWP	Municipal	Harrison	Sabine	1,006	1,084	1,109	1,222	1,327	1,405
Northeast Texas MWD	MWP	Manufacturing	Camp	Cypress	100	100	100	100	100	100
Northeast Texas MWD	MWP	Manufacturing	Morris	Cypress	13,037	13,037	13,037	13,037	13,037	13,037
Northeast Texas MWD	MWP	Manufacturing	Morris	Cypress	32,400	32,400	32,400	32,400	32,400	32,400
Northeast Texas MWD	MWP	Municipal	Harrison	Cypress	1,591	1,591	1,592	1,592	1,592	1,592
Northeast Texas MWD	MWP	Municipal	Harrison	Sabine	7,409	7,409	7,408	7,408	7,408	7,408
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	97	88	84	77	69	67
Northeast Texas MWD	MWP	Municipal	Marion	Cypress	799	808	812	819	827	829
Northeast Texas MWD	MWP	Municipal	Upshur	Cypress	1,869	1,869	1,869	1,869	1,869	1,869
Northeast Texas MWD	MWP	Municipal	Camp	Cypress	12,588	12,588	12,588	12,588	12,588	12,588

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Northeast Texas MWD	MWP	Steam Electric Power	Harrison	Sabine	18,000	18,000	18,000	18,000	18,000	18,000
Northeast Texas MWD	MWP	Steam Electric Power	Marion	Cypress	6,668	6,668	6,668	6,668	6,668	6,668
Northeast Texas MWD	MWP	Steam Electric Power	Titus	Cypress	5,000	4,560	4,120	3,680	3,240	2,800
Northeast Texas MWD	MWP	Steam Electric Power	Titus	Cypress	14,400	14,400	14,400	14,400	14,400	14,400
Northeast Texas MWD	MWP	Steam Electric Power	Titus	Cypress	2,900	2,620	2,340	2,060	1,780	1,500
Northeast Texas MWD	MWP	Municipal	Gregg	Cypress	1,279	1,213	1,204	1,161	1,134	1,077
Northeast Texas MWD	MWP	Municipal	Gregg	Sabine	382	362	359	343	331	313
Northeast Texas MWD	MWP	Municipal	Harrison	Cypress	602	688	700	759	797	873
Paris	MWP	Municipal	Lamar	Red	9,617	9,617	9,617	9,619	9,619	9,616
Paris	MWP	Municipal	Lamar	Sulphur	3,825	3,825	3,825	3,823	3,823	3,826
Paris	MWP	Manufacturing	Lamar	Sulphur	5,340	5,580	5,787	6,183	6,386	6,386
Paris	MWP	Steam Electric Power	Lamar	Red	606	606	606	606	606	606
Paris	MWP	Steam Electric Power	Lamar	Sulphur	8,355	8,355	8,355	8,355	8,355	8,355
Point	MWP	Manufacturing	Rains	Sabine	12	12	12	12	12	12
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	17	17	17	17	17	17
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	93	93	93	93	93	93
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	260	271	271	271	271	271
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	260	271	271	271	271	271
Riverbend Water Resources District	MWP	Municipal	Red River	Red	53	54	55	55	55	56
Riverbend Water Resources District	MWP	Municipal	Red River	Sulphur	53	54	55	55	55	56

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	53	53	52	54	54	54
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	239	236	239	240	244	244
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	278	276	271	269	269	269
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	552	552	552	552	552	552
Riverbend Water Resources District	MWP	Manufacturing	Bowie	Red	29,964	33,255	37,368	41,481	50,407	50,407
Riverbend Water Resources District	MWP	Manufacturing	Bowie	Sulphur	29,964	33,255	37,368	41,481	50,407	50,407
Riverbend Water Resources District	MWP	Manufacturing	Cass	Cypress	48	49	47	49	50	48
Riverbend Water Resources District	MWP	Manufacturing	Cass	Sulphur	122,575	122,567	122,568	122,566	122,565	122,567
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	226	241	238	237	237	237
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	368	368	368	368	368	368
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	791	790	792	790	790	791
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	889	890	888	890	890	889
Riverbend Water Resources District	MWP	Municipal	Red River	Red	108	108	108	108	108	108
Riverbend Water Resources District	MWP	Municipal	Red River	Sulphur	108	108	108	108	108	108
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	55	55	55	55	55	55
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	1,276	1,308	1,350	1,407	1,470	1,470
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	6,006	6,151	6,356	6,621	6,910	6,910

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	750	802	861	932	931	931
Sabine River Authority	MWP	Municipal	Rains	Sabine	840	840	840	840	840	840
Sabine River Authority	MWP	Municipal	Hopkins	Sabine	52	55	50	58	96	49
Sabine River Authority	MWP	Municipal	Hunt	Sabine	0	0	0	0	0	2,550
Sabine River Authority	MWP	Municipal	Hunt	Sabine	4,793	4,694	4,577	4,429	3,876	1,560
Sabine River Authority	MWP	Municipal	Rains	Sabine	226	217	222	247	671	276
Sabine River Authority	MWP	Municipal	Hunt	Sabine	1,863	1,860	1,858	1,854	1,849	1,845
Sabine River Authority	MWP	Municipal	Van Zandt	Sabine	377	380	382	386	391	395
Sabine River Authority	MWP	Municipal	Hunt	Sulphur	8,396	8,396	8,396	8,396	8,396	8,396
Sabine River Authority	MWP	Municipal	Van Zandt	Sabine	840	840	840	840	840	840
Sabine River Authority	MWP	Municipal	Rains	Sabine	3,229	3,229	3,229	3,229	3,229	3,229
Sabine River Authority	MWP	Municipal	Hunt	Sabine	21,283	21,283	21,283	21,283	21,283	21,283
Sabine River Authority	MWP	Irrigation	Van Zandt	Neches	184	184	184	184	184	184
Sabine River Authority	MWP	Municipal	Gregg	Sabine	5,184	5,191	5,197	5,202	5,246	5,303
Sabine River Authority	MWP	Municipal	Gregg	Sabine	19,598	19,577	19,570	19,532	19,493	19,462
Sabine River Authority	MWP	Municipal	Harrison	Sabine	402	423	430	468	507	538
Sabine River Authority	MWP	Municipal	Hunt	Sabine	87	72	61	51	42	35
Sabine River Authority	MWP	Municipal	Van Zandt	Sabine	682	708	714	722	731	731
Sabine River Authority	MWP	Municipal	Van Zandt	Trinity	1,395	1,386	1,391	1,395	1,398	1,407
Sabine River Authority	MWP	Manufacturing	Harrison	Sabine	3,500	3,500	3,500	3,500	3,500	3,500
Sabine River Authority	MWP	Municipal	Rains	Sabine	448	448	448	448	448	448
Sabine River Authority	MWP	Municipal	Wood	Sabine	1,120	1,120	1,120	1,120	1,120	1,120
Sabine River Authority	MWP	Municipal	Van Zandt	Sabine	1,680	1,680	1,680	1,680	1,680	1,680

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Sabine River Authority	MWP	Municipal	Hunt	Sabine	1,120	1,120	1,120	1,120	1,120	1,120
Sabine River Authority	MWP	Municipal	Van Zandt	Sabine	1,044	1,046	1,048	1,049	1,050	1,051
Sabine River Authority	MWP	Municipal	Van Zandt	Trinity	1,196	1,194	1,192	1,191	1,190	1,189
Sulphur River MWD	MWP	Municipal	Delta	Sulphur	1,072	1,072	1,072	1,072	1,072	1,072
Sulphur River MWD	MWP	Municipal	Hopkins	Sulphur	13,738	13,411	13,085	12,758	12,431	12,104
Sulphur Springs	MWP	Municipal	Hopkins	Sabine	78	83	86	91	97	97
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	77	80	84	90	95	95
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	77	77	77	77	77	77
Sulphur Springs	MWP	Municipal	Hopkins	Sabine	56	53	16	0	0	0
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	27	26	8	0	0	0
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	111	115	121	128	135	135
Sulphur Springs	MWP	Livestock	Hopkins	Cypress	65	71	71	76	78	78
Sulphur Springs	MWP	Livestock	Hopkins	Sabine	323	347	349	373	383	383
Sulphur Springs	MWP	Livestock	Hopkins	Sulphur	1,163	1,302	1,310	1,465	1,535	1,535
Sulphur Springs	MWP	Manufacturing	Hopkins	Sulphur	1,561	1,592	1,611	1,701	1,802	1,802
Sulphur Springs	MWP	Manufacturing	Hopkins	Sulphur	269	323	376	425	473	473
Sulphur Springs	MWP	Manufacturing	Hunt	Sabine	50	50	50	50	50	50
Sulphur Springs	MWP	Municipal	Hopkins	Sabine	185	185	186	186	185	185
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	38	38	37	37	38	38
Sulphur Springs	MWP	Mining	Hopkins	Sabine	200	220	240	261	285	310
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	921	921	921	921	921	921
Sulphur Springs	MWP	Municipal	Hopkins	Sabine	31	33	33	35	38	38
Sulphur Springs	MWP	Municipal	Hopkins	Sabine	31	32	34	37	38	38
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	25	26	28	30	31	31
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	25	27	28	29	31	31
Tarrant Regional WD	MWP	Municipal	Van Zandt	Trinity	67	76	84	92	100	109

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Terrell	WUG Seller	Municipal	Hunt	Sabine	35	50	63	75	65	67
Terrell	WUG Seller	Municipal	Hunt	Sabine	51	57	63	66	56	57
Terrell	WUG Seller	Municipal	Hunt	Sabine	145	157	166	171	138	137
Terrell	WUG Seller	Municipal	Hunt	Sabine	5	6	5	5	5	5
Texarkana	MWP	Municipal	Bowie	Red	142,070	142,320	142,069	142,179	142,292	142,067
Texarkana	MWP	Municipal	Bowie	Sulphur	37,930	37,680	37,931	37,821	37,708	37,933
Titus County FWD 1	MWP	Municipal	Titus	Cypress	30,000	30,000	30,000	30,000	30,000	30,000
Titus County FWD 1	MWP	Steam Electric Power	Titus	Cypress	10,000	10,000	10,000	10,000	10,000	10,000
Tyler	WUG Seller	Manufacturing	Smith	Sabine	7	6	9	10	9	9
Tyler	WUG Seller	Manufacturing	Smith	Sabine	7	6	9	7	9	8
Upper Neches River Municipal Water Authority	WUG Seller	Municipal	Smith	Sabine	449	360	299	253	209	172
White Oak	MWP	Municipal	Gregg	Sabine	50	50	50	50	50	50
White Oak	MWP	Municipal	Upshur	Cypress	30	29	29	29	29	29
White Oak	MWP	Municipal	Upshur	Sabine	10	11	11	11	11	11



Table 2.20 Projected Demands by Major Water Provider in terms of Sale Amount

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Bi County WSC	MWP	Manufacturing	Camp	Cypress	2	2	2	2	2	2
Bi County WSC	MWP	Steam Electric Power	Titus	Cypress	3	3	3	3	3	3
Bright Star Salem SUD	MWP	Municipal	Rains	Sabine	90	90	90	90	90	90
Cash SUD	MWP	Municipal	Hunt	Sabine	67	67	67	67	67	67
Cash SUD	MWP	Municipal	Hunt	Sabine	123	243	396	654	1,114	1,126
Cash SUD	MWP	Municipal	Hunt	Sulphur	251	361	394	546	794	782
Cash SUD	MWP	Municipal	Hunt	Trinity	0	0	0	0	0	0
Cash SUD	MWP	Municipal	Hunt	Sabine	240	258	276	292	307	322
Cherokee Water Company	MWP	Municipal	Gregg	Sabine	15,659	15,640	15,634	15,600	15,567	15,540
Cherokee Water Company	MWP	Municipal	Harrison	Sabine	341	360	366	400	433	460
Cherokee Water Company	MWP	Steam Electric Power	Gregg	Sabine	2,000	2,000	2,000	2,000	2,000	2,094
Commerce	MWP	Municipal	Delta	Sulphur	74	74	74	74	74	74
Commerce	MWP	Municipal	Hopkins	Sulphur	3	3	3	3	3	3
Commerce	MWP	Municipal	Delta	Sulphur	11	12	10	12	12	12
Commerce	MWP	Municipal	Hunt	Sulphur	130	129	130	129	128	128
Commerce	MWP	Municipal	Hunt	Sulphur	1	1	1	1	1	1
Cooper	MWP	Municipal	Delta	Sulphur	0	0	0	0	0	0
Cooper	MWP	Municipal	Delta	Sulphur	0	0	0	0	0	0
Cooper	MWP	Municipal	Hunt	Sabine	0	0	0	0	0	0
Cooper	MWP	Municipal	Hunt	Sabine	0	0	0	0	0	0
Cooper	MWP	Municipal	Hunt	Sulphur	0	0	0	0	0	0
Cooper	MWP	Municipal	Hunt	Trinity	0	0	0	0	0	0
Cooper	MWP	Municipal	Delta	Sulphur	191	194	196	199	179	0
Cooper	MWP	Municipal	Delta	Sulphur	0	0	0	0	0	0

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
County-Other, Upshur	WUG Seller	Irrigation	Upshur	Cypress	350	350	350	350	350	350
Emory	MWP	Municipal	Rains	Sabine	246	247	247	248	248	248
Emory	MWP	Municipal	Rains	Sabine	192	188	187	187	188	188
Farmersville	WUG Seller	Municipal	Hunt	Sabine	25	26	31	34	30	33
Farmersville	WUG Seller	Municipal	Hunt	Sabine	39	31	31	28	27	29
Farmersville	WUG Seller	Municipal	Hunt	Sabine	110	84	84	76	66	68
Farmersville	WUG Seller	Municipal	Hunt	Sabine	5	3	3	2	2	2
Franklin County WD	MWP	Municipal	Franklin	Cypress	1,916	1,795	1,676	1,569	1,467	1,365
Franklin County WD	MWP	Municipal	Franklin	Sulphur	1,010	948	888	834	780	729
Franklin County WD	MWP	Municipal	Hopkins	Cypress	190	188	183	175	167	159
Franklin County WD	MWP	Municipal	Hopkins	Sulphur	298	296	285	273	260	247
Franklin County WD	MWP	Municipal	Titus	Cypress	111	123	144	152	159	168
Franklin County WD	MWP	Municipal	Titus	Sulphur	81	90	102	109	116	121
Franklin County WD	MWP	Municipal	Wood	Cypress	200	200	195	193	190	184
Franklin County WD	MWP	Municipal	Franklin	Sulphur	2,538	2,426	2,315	2,204	2,093	1,982
Franklin County WD	MWP	Municipal	Franklin	Cypress	384	357	332	311	291	271
Franklin County WD	MWP	Municipal	Wood	Cypress	637	614	590	565	537	512
Franklin County WD	MWP	Municipal	Wood	Sabine	671	647	622	593	567	537
Gladewater	MWP	Municipal	Gregg	Sabine	154	154	154	154	154	54
Gladewater	MWP	Municipal	Smith	Sabine	23	23	23	23	23	23
Gladewater	MWP	Municipal	Upshur	Cypress	84	83	83	83	82	82
Gladewater	MWP	Municipal	Upshur	Sabine	28	29	29	29	30	30
Grand Saline	MWP	Manufacturing	Van Zandt	Sabine	15	15	15	15	14	14
Greenville	MWP	Municipal	Hunt	Sabine	186	201	242	309	319	319
Greenville	MWP	Municipal	Hunt	Sabine	806	806	806	806	806	734

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Greenville	MWP	Manufacturing	Hunt	Sabine	103	103	103	103	103	103
Greenville	MWP	Manufacturing	Hunt	Sabine	862	1,043	1,216	1,335	1,521	1,521
Greenville	MWP	Municipal	Hunt	Sabine	164	207	263	335	428	545
Greenville	MWP	Municipal	Hunt	Sulphur	10	13	17	22	27	35
Greenville	MWP	Steam Electric Power	Hunt	Sabine	373	373	373	373	373	373
Hooks	WUG Seller	Municipal	Bowie	Red	0	0	0	0	0	0
Hughes Springs	MWP	Municipal	Cass	Cypress	54	55	57	58	60	61
Hughes Springs	MWP	Municipal	Morris	Cypress	38	37	35	34	32	31
Kilgore	MWP	Municipal	Gregg	Cypress	25	27	30	34	36	37
Kilgore	MWP	Municipal	Gregg	Sabine	596	636	700	774	864	863
Kilgore	MWP	Municipal	Gregg	Sabine	37	39	41	45	49	48
Lamar County WSD	MWP	Municipal	Red River	Red	94	92	92	91	92	92
Lamar County WSD	MWP	Municipal	Red River	Sulphur	124	121	120	120	119	119
Lamar County WSD	MWP	Municipal	Lamar	Sulphur	230	245	245	245	245	245
Lamar County WSD	MWP	Municipal	Lamar	Red	24	25	24	24	24	24
Lamar County WSD	MWP	Municipal	Lamar	Sulphur	256	260	259	257	255	255
Lamar County WSD	MWP	Municipal	Red River	Red	76	75	75	74	70	70
Lamar County WSD	MWP	Municipal	Red River	Sulphur	174	172	172	173	177	177
Lamar County WSD	MWP	Manufacturing	Lamar	Red	900	941	976	1,042	1,077	1,077
Lamar County WSD	MWP	Municipal	Red River	Red	184	184	184	184	184	184
Lamar County WSD	MWP	Municipal	Lamar	Red	47	49	53	57	61	62
Lamar County WSD	MWP	Municipal	Lamar	Sulphur	652	705	761	816	874	873
Longview	MWP	Municipal	Gregg	Cypress	2	2	2	2	2	2
Longview	MWP	Municipal	Gregg	Sabine	48	48	48	48	48	48
Longview	MWP	Municipal	Gregg	Sabine	203	205	206	209	205	205
Longview	MWP	Municipal	Gregg	Sabine	206	208	210	212	221	222

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Longview	MWP	Municipal	Harrison	Cypress	37	37	37	37	37	37
Longview	MWP	Municipal	Harrison	Cypress	144	144	144	144	144	144
Longview	MWP	Municipal	Harrison	Cypress	385	385	385	385	386	386
Longview	MWP	Municipal	Harrison	Sabine	157	157	157	157	157	157
Longview	MWP	Municipal	Harrison	Sabine	602	602	602	602	602	602
Longview	MWP	Municipal	Harrison	Sabine	1,615	1,615	1,615	1,615	1,614	1,614
Longview	MWP	Municipal	Harrison	Sabine	553	553	553	553	553	553
Longview	MWP	Municipal	Harrison	Sabine	334	334	334	334	334	334
Longview	MWP	Manufacturing	Gregg	Sabine	1,092	1,092	1,092	1,092	1,092	1,092
Longview	MWP	Manufacturing	Harrison	Sabine	5,004	5,004	5,004	5,004	5,004	5,004
Longview	MWP	Manufacturing	Harrison	Sabine	400	400	400	400	400	400
Longview	MWP	Steam Electric Power	Harrison	Sabine	6,161	6,161	6,161	6,161	6,161	6,161
Longview	MWP	Municipal	Gregg	Sabine	2,680	2,680	2,680	2,680	2,680	2,680
Manufacturing, Cass	WUG Seller	Municipal	Cass	Cypress	2,319	2,321	2,320	2,320	2,319	2,319
Manufacturing, Cass	WUG Seller	Municipal	Cass	Sulphur	9	7	8	8	9	9
Manufacturing, Cass	WUG Seller	Municipal	Cass	Sulphur	44	44	44	44	44	44
Marshall	MWP	Municipal	Harrison	Cypress	278	280	281	283	285	284
Marshall	MWP	Municipal	Harrison	Sabine	45	43	42	40	38	39
Marshall	MWP	Municipal	Harrison	Sabine	69	71	73	73	74	75
Marshall	MWP	Manufacturing	Harrison	Sabine	2,000	2,000	2,000	2,000	2,000	2,000
Mount Pleasant	MWP	Municipal	Franklin	Sulphur	14	16	17	17	17	17
Mount Pleasant	MWP	Municipal	Titus	Cypress	344	372	388	405	424	445
Mount Pleasant	MWP	Municipal	Titus	Sulphur	344	372	388	405	424	445
Mount Pleasant	MWP	Manufacturing	Titus	Cypress	2,795	2,859	2,922	2,933	3,067	3,101
Mount Pleasant	MWP	Manufacturing	Titus	Cypress	550	550	550	550	550	550

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Mount Pleasant	MWP	Municipal	Morris	Cypress	155	151	142	140	138	130
Mount Pleasant	MWP	Municipal	Titus	Cypress	1,002	1,088	1,191	1,312	1,453	1,606
Mount Pleasant	MWP	Municipal	Titus	Sulphur	570	620	677	747	827	914
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	6	7	7	8	8	8
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	8	8	7	7	7	7
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	23	20	19	17	16	16
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	1	1	1	1	1	1
North Texas MWD	WUG Seller	Municipal	Van Zandt	Sabine	2	2	2	2	2	2
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	76	96	110	124	130	139
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	112	111	109	109	112	118
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	316	304	290	280	279	282
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	11	11	10	10	9	10
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	239	233	280	297	284	304
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	356	273	278	259	243	256
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	995	747	738	668	603	615
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	35	26	25	24	21	21
North Texas MWD	WUG Seller	Municipal	Hopkins	Sabine	1	2	2	2	4	5
North Texas MWD	WUG Seller	Municipal	Hopkins	Sabine	2	2	2	1	3	4

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
North Texas MWD	WUG Seller	Municipal	Hopkins	Sabine	6	4	4	4	8	8
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	124	133	132	131	110	104
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	183	154	131	114	95	88
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	514	422	348	295	236	212
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	18	15	12	10	8	7
North Texas MWD	WUG Seller	Municipal	Rains	Sabine	6	6	6	7	18	18
North Texas MWD	WUG Seller	Municipal	Rains	Sabine	9	7	6	6	16	16
North Texas MWD	WUG Seller	Municipal	Rains	Sabine	24	19	17	17	38	39
North Texas MWD	WUG Seller	Municipal	Rains	Sabine	1	1	1	1	1	1
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	4	6	6	7	8	8
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	7	6	6	6	7	7
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	18	18	17	16	16	16
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	1	1	1	1	1	1
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	83	129	166	205	230	259
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	123	150	164	179	198	220
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	344	409	437	462	491	527
North Texas MWD	WUG Seller	Municipal	Hunt	Sabine	12	14	15	16	17	18
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	0	0	0	0	0	0

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	0	0	0	0	0	0
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	302	302	302	302	302	302
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	0	0	0	0	0	0
Northeast Texas MWD	MWP	Municipal	Marion	Cypress	169	169	169	169	169	169
Northeast Texas MWD	MWP	Municipal	Morris	Cypress	1,582	1,582	1,582	1,582	1,582	1,582
Northeast Texas MWD	MWP	Municipal	Harrison	Cypress	40	39	36	34	32	30
Northeast Texas MWD	MWP	Municipal	Marion	Cypress	48	37	29	23	18	14
Northeast Texas MWD	MWP	Municipal	Upshur	Cypress	507	519	530	538	545	551
Northeast Texas MWD	MWP	Municipal	Harrison	Cypress	55	57	59	60	62	63
Northeast Texas MWD	MWP	Municipal	Marion	Cypress	13	11	9	8	6	5
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	656	656	656	656	656	656
Northeast Texas MWD	MWP	Municipal	Marion	Cypress	1,509	1,509	1,509	1,509	1,509	1,509
Northeast Texas MWD	MWP	Municipal	Morris	Cypress	747	747	747	747	747	747
Northeast Texas MWD	MWP	Municipal	Gregg	Sabine	18,994	18,916	18,891	18,778	18,673	18,595
Northeast Texas MWD	MWP	Municipal	Harrison	Sabine	1,006	1,084	1,109	1,222	1,327	1,405
Northeast Texas MWD	MWP	Manufacturing	Camp	Cypress	0	0	0	0	0	0
Northeast Texas MWD	MWP	Manufacturing	Morris	Cypress	13,037	13,037	13,037	13,037	13,037	13,037
Northeast Texas MWD	MWP	Manufacturing	Morris	Cypress	32,400	32,400	32,400	32,400	32,400	32,400
Northeast Texas MWD	MWP	Municipal	Harrison	Cypress	1,591	1,591	1,592	1,592	1,592	1,592
Northeast Texas MWD	MWP	Municipal	Harrison	Sabine	7,409	7,409	7,408	7,408	7,408	7,408
Northeast Texas MWD	MWP	Municipal	Cass	Cypress	97	88	84	77	69	67
Northeast Texas MWD	MWP	Municipal	Marion	Cypress	799	808	812	819	827	829
Northeast Texas MWD	MWP	Municipal	Upshur	Cypress	1,504	1,504	1,504	1,504	1,504	1,504
Northeast Texas MWD	MWP	Municipal	Camp	Cypress	0	0	0	0	0	0
Northeast Texas MWD	MWP	Steam Electric Power	Harrison	Sabine	18,000	18,000	18,000	18,000	18,000	18,000
Northeast Texas MWD	MWP	Steam Electric Power	Marion	Cypress	6,668	6,668	6,668	6,668	6,668	6,668

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Northeast Texas MWD	MWP	Steam Electric Power	Titus	Cypress	5,000	4,560	4,120	3,680	3,240	2,800
Northeast Texas MWD	MWP	Steam Electric Power	Titus	Cypress	14,400	14,400	14,400	14,400	14,400	14,400
Northeast Texas MWD	MWP	Steam Electric Power	Titus	Cypress	2,900	2,620	2,340	2,060	1,780	1,500
Northeast Texas MWD	MWP	Municipal	Gregg	Cypress	1,030	977	969	935	913	867
Northeast Texas MWD	MWP	Municipal	Gregg	Sabine	308	291	289	276	267	252
Northeast Texas MWD	MWP	Municipal	Harrison	Cypress	484	554	563	611	642	703
Paris	MWP	Municipal	Lamar	Red	9,617	9,617	9,617	9,619	9,619	9,616
Paris	MWP	Municipal	Lamar	Sulphur	3,825	3,825	3,825	3,823	3,823	3,826
Paris	MWP	Manufacturing	Lamar	Sulphur	5,340	5,580	5,762	5,780	5,797	5,815
Paris	MWP	Steam Electric Power	Lamar	Red	606	606	606	606	606	606
Paris	MWP	Steam Electric Power	Lamar	Sulphur	8,355	8,355	8,355	8,355	8,355	8,355
Point	MWP	Manufacturing	Rains	Sabine	12	12	12	12	12	12
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Red River	Red	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Red River	Sulphur	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	0	0	0	0	0	0



Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Manufacturing	Bowie	Red	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Manufacturing	Bowie	Sulphur	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Manufacturing	Cass	Cypress	48	49	47	49	50	48
Riverbend Water Resources District	MWP	Manufacturing	Cass	Sulphur	122,575	122,567	122,568	122,566	122,565	122,567
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Red River	Red	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Red River	Sulphur	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Red	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	0	0	0	0	0	0
Riverbend Water Resources District	MWP	Municipal	Bowie	Sulphur	0	0	0	0	0	0
Sabine River Authority	MWP	Municipal	Rains	Sabine	354	758	750	742	734	725
Sabine River Authority	MWP	Municipal	Hopkins	Sabine	15	17	16	23	57	48

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Sabine River Authority	MWP	Municipal	Hunt	Sabine	0	0	0	0	0	2,495
Sabine River Authority	MWP	Municipal	Hunt	Sabine	1,387	1,425	1,438	1,734	2,287	1,527
Sabine River Authority	MWP	Municipal	Rains	Sabine	65	66	70	97	396	270
Sabine River Authority	MWP	Municipal	Hunt	Sabine	494	568	677	838	1,076	1,422
Sabine River Authority	MWP	Municipal	Van Zandt	Sabine	100	116	139	175	228	304
Sabine River Authority	MWP	Municipal	Hunt	Sulphur	1,629	6,025	5,975	5,531	3,917	3,884
Sabine River Authority	MWP	Municipal	Van Zandt	Sabine	272	285	295	307	318	329
Sabine River Authority	MWP	Municipal	Rains	Sabine	1,218	1,267	1,272	1,276	1,280	1,283
Sabine River Authority	MWP	Municipal	Hunt	Sabine	10,297	20,362	20,194	20,027	19,879	19,690
Sabine River Authority	MWP	Irrigation	Van Zandt	Neches	184	184	184	184	184	184
Sabine River Authority	MWP	Municipal	Gregg	Sabine	1,728	4,683	4,638	4,596	4,620	5,059
Sabine River Authority	MWP	Municipal	Gregg	Sabine	7,839	17,660	17,467	17,253	17,027	16,806
Sabine River Authority	MWP	Municipal	Harrison	Sabine	161	382	383	413	443	465
Sabine River Authority	MWP	Municipal	Hunt	Sabine	20	18	17	15	14	12
Sabine River Authority	MWP	Municipal	Van Zandt	Sabine	157	181	198	217	236	254
Sabine River Authority	MWP	Municipal	Van Zandt	Trinity	321	354	386	419	452	489
Sabine River Authority	MWP	Manufacturing	Harrison	Sabine	3,500	3,157	3,124	3,092	3,057	3,022
Sabine River Authority	MWP	Municipal	Rains	Sabine	376	391	392	393	395	395
Sabine River Authority	MWP	Municipal	Wood	Sabine	316	1,010	1,000	989	978	967
Sabine River Authority	MWP	Municipal	Van Zandt	Sabine	438	472	498	530	562	590
Sabine River Authority	MWP	Municipal	Hunt	Sabine	276	804	797	738	784	777
Sabine River Authority	MWP	Municipal	Van Zandt	Sabine	351	751	746	593	490	486
Sabine River Authority	MWP	Municipal	Van Zandt	Trinity	402	856	848	672	555	550
Sulphur River MWD	MWP	Municipal	Delta	Sulphur	767	749	731	712	694	676
Sulphur River MWD	MWP	Municipal	Hopkins	Sulphur	12,971	12,662	12,354	12,046	11,737	11,428
Sulphur Springs	MWP	Municipal	Hopkins	Sabine	78	83	86	91	97	97
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	77	80	84	90	95	95

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	77	77	77	77	77	77
Sulphur Springs	MWP	Municipal	Hopkins	Sabine	56	53	16	0	0	0
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	27	26	8	0	0	0
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	111	115	121	128	135	135
Sulphur Springs	MWP	Livestock	Hopkins	Cypress	65	71	71	76	78	78
Sulphur Springs	MWP	Livestock	Hopkins	Sabine	323	347	349	373	383	383
Sulphur Springs	MWP	Livestock	Hopkins	Sulphur	1,163	1,302	1,310	1,465	1,535	1,535
Sulphur Springs	MWP	Manufacturing	Hopkins	Sulphur	1,561	1,592	1,611	1,701	1,802	1,802
Sulphur Springs	MWP	Manufacturing	Hopkins	Sulphur	269	323	376	425	473	473
Sulphur Springs	MWP	Manufacturing	Hunt	Sabine	50	50	50	50	50	50
Sulphur Springs	MWP	Municipal	Hopkins	Sabine	185	185	186	186	185	185
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	38	38	37	37	38	38
Sulphur Springs	MWP	Mining	Hopkins	Sabine	68	74	81	88	96	96
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	921	921	921	921	921	921
Sulphur Springs	MWP	Municipal	Hopkins	Sabine	31	33	33	35	38	38
Sulphur Springs	MWP	Municipal	Hopkins	Sabine	31	32	34	37	38	38
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	25	26	28	30	31	31
Sulphur Springs	MWP	Municipal	Hopkins	Sulphur	25	27	28	29	31	31
Tarrant Regional WD	MWP	Municipal	Van Zandt	Trinity	58	58	60	61	62	63
Terrell	WUG Seller	Municipal	Hunt	Sabine	32	40	45	48	39	38
Terrell	WUG Seller	Municipal	Hunt	Sabine	47	45	44	43	33	33
Terrell	WUG Seller	Municipal	Hunt	Sabine	131	125	117	110	83	78
Terrell	WUG Seller	Municipal	Hunt	Sabine	5	4	4	3	3	3
Texarkana	MWP	Municipal	Bowie	Red	96,789	96,954	96,777	96,852	96,929	96,775
Texarkana	MWP	Municipal	Bowie	Sulphur	25,841	25,669	25,839	25,763	25,686	25,840

Name	MWP/WUG Seller	Use Category	County	Basin	2030	2040	2050	2060	2070	2080
Titus County FWD 1	MWP	Municipal	Titus	Cypress	18,900	18,900	18,900	18,900	18,900	18,900
Titus County FWD 1	MWP	Steam Electric Power	Titus	Cypress	7,300	6,760	6,220	5,680	5,140	4,600
Tyler	WUG Seller	Manufacturing	Smith	Sabine	7	6	9	10	9	9
Tyler	WUG Seller	Manufacturing	Smith	Sabine	7	6	9	7	9	8
Upper Neches River Municipal Water Authority	WUG Seller	Municipal	Smith	Sabine	225	180	150	127	105	86
White Oak	MWP	Municipal	Gregg	Sabine	50	50	50	50	50	50
White Oak	MWP	Municipal	Upshur	Cypress	30	29	29	29	29	29
White Oak	MWP	Municipal	Upshur	Sabine	10	11	11	11	11	11

### 2.3.6 Regional Environmental Flow Demand Projections

An additional demand for water in the Region is that water needed for “environmental flows,” as that term is defined in Senate Bill 3 of the 2007 Regular Session (SB 3). While no volumes or rates have been projected in this plan, the NETRWPG anticipates a significant amount of water will be needed for the Region’s rivers, streams, and lakes to maintain the agricultural and natural resources of the North East Texas Region.

As discussed in *Section 3.4 Impact of Environmental Flow Policies on Water Rights, Water Availability, and Water Planning*, SB 3 established a process to determine the environmental flow needs for each river basin. To date, a schedule has not been established for a SB 3 process for the Red, Sulphur, or Cypress basins. However, a voluntary process is ongoing for the Cypress Basin, whereby voluntary environmental flow goals have been identified, and studies have been undertaken to evaluate and consider environmental flow needs in the Sulphur River Basin (discussed in more detail within Chapter 8 of this Plan).



APPENDIX [1]B

[TITLE]



