

Appendix 4-D

Supply vs Demand

The following appendix includes a copy of the Water User Group (WUG) Category summary report data from the TWDB Data Web Interface known as the DB17. The summary presents supply, demand, and population (where applicable) for each of the seven summary WUGs.

1. Municipal
2. County-Other
3. Manufacturing
4. Mining
5. Steam Electric Power
6. Livestock
7. Irrigation

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Water User Group (WUG) Category Summary

REGION I	2020	2030	2040	2050	2060	2070
MUNICIPAL						
POPULATION	887,998	950,261	1,007,610	1,068,183	1,129,870	1,193,676
DEMANDS (acre-feet per year)	158,273	164,784	171,262	179,762	189,621	200,182
EXISTING SUPPLIES (acre-feet per year)	199,616	204,378	208,309	212,559	217,462	222,918
NEEDS (acre-feet per year)*	(121)	(534)	(1,476)	(3,902)	(6,947)	(10,333)
COUNTY-OTHER						
POPULATION	263,558	283,712	302,071	320,684	339,973	359,976
DEMANDS (acre-feet per year)	30,373	31,518	32,895	34,778	37,001	39,425
EXISTING SUPPLIES (acre-feet per year)	37,322	38,350	39,563	39,947	40,397	40,885
NEEDS (acre-feet per year)*	0	0	0	(680)	(1,924)	(3,296)
MANUFACTURING						
DEMANDS (acre-feet per year)	608,667	800,989	838,639	874,546	909,373	945,886
EXISTING SUPPLIES (acre-feet per year)	424,528	524,922	540,430	555,752	571,334	587,497
NEEDS (acre-feet per year)*	(195,313)	(286,821)	(308,893)	(329,416)	(348,617)	(368,917)
MINING						
DEMANDS (acre-feet per year)	27,523	24,547	18,169	15,488	12,986	12,093
EXISTING SUPPLIES (acre-feet per year)	22,329	22,235	21,684	21,151	20,679	20,853
NEEDS (acre-feet per year)*	(9,586)	(7,160)	(2,794)	(2,338)	(2,048)	(1,916)
STEAM ELECTRIC POWER						
DEMANDS (acre-feet per year)	82,018	95,544	112,035	132,137	156,640	184,714
EXISTING SUPPLIES (acre-feet per year)	93,545	93,545	93,545	93,545	93,545	93,545
NEEDS (acre-feet per year)*	(25,422)	(32,807)	(43,269)	(56,482)	(80,437)	(108,136)
LIVESTOCK						
DEMANDS (acre-feet per year)	24,027	25,549	27,361	29,521	32,081	32,764
EXISTING SUPPLIES (acre-feet per year)	25,667	25,806	25,983	26,173	26,070	25,992
NEEDS (acre-feet per year)*	(3,011)	(4,212)	(5,663)	(7,419)	(9,541)	(9,983)
IRRIGATION						
DEMANDS (acre-feet per year)	177,919	187,894	194,851	197,546	195,445	192,186
EXISTING SUPPLIES (acre-feet per year)	224,688	224,930	225,111	225,193	225,114	225,033
NEEDS (acre-feet per year)*	(3,518)	(4,011)	(4,452)	(4,812)	(5,076)	(5,427)
REGION TOTALS						
POPULATION	1,151,556	1,233,973	1,309,681	1,388,867	1,469,843	1,553,652
DEMANDS (acre-feet per year)	1,108,800	1,330,825	1,395,212	1,463,778	1,533,147	1,607,250
EXISTING SUPPLIES (acre-feet per year)	1,027,695	1,134,166	1,154,625	1,174,320	1,194,601	1,216,723
NEEDS (acre-feet per year)*	(236,971)	(335,545)	(366,547)	(405,049)	(454,590)	(508,008)

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

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