

Table 4-16
Projected Water Demands, Supplies, and Needs
Medina County
South Central Texas Region

Basin	Source	Projections						
		Total in 2000 (acft)	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Municipal Surplus/Shortage								
Nueces Basin								
Benton City WSC		266	188	98	13	-59	-135	-203
Devine		133	126	113	107	101	85	67
East Medina SUD		-201	-299	-410	-514	-598	-687	-776
Hondo		-466	-649	-866	-1,070	-1,240	-1,413	-1,582
Lytle		-20	-19	-17	-16	-15	-15	-15
Natalia		73	34	-10	-51	-86	-121	-155
Rural		-749	-1,044	-1,371	-1,663	-1,922	-2,190	-2,431
	Subtotal	-964	-1,663	-2,463	-3,194	-3,819	-4,476	-5,095
San Antonio Basin								
Bexar Met Water District		-6	-15	-24	-32	-38	-45	-51
Castroville		-151	-210	-273	-332	-384	-438	-491
East Medina SUD		-12	-18	-24	-30	-35	-40	-45
La Coste		-63	-78	-95	-112	-124	-138	-154
Yancey WSC		-373	-537	-718	-885	-1,033	-1,174	-1,308
Rural		150	142	134	126	120	113	107
	Subtotal	-455	-716	-1,000	-1,265	-1,494	-1,722	-1,942
Total Municipal Surplus/Shortage		-1,419	-2,379	-3,463	-4,459	-5,313	-6,198	-7,037
Municipal New Supply Need								
Nueces Basin								
Benton City WSC		0	0	0	0	59	135	203
Devine		0	0	0	0	0	0	0
East Medina SUD		201	299	410	514	598	687	776
Hondo		466	649	866	1,070	1,240	1,413	1,582
Lytle		20	19	17	16	15	15	15
Natalia		0	0	10	51	86	121	155
Rural		749	1,044	1,371	1,663	1,922	2,190	2,431
	Subtotal	1,436	2,011	2,674	3,314	3,920	4,561	5,162
San Antonio Basin								
Bexar Met Water District		6	15	24	32	38	45	51
Castroville		151	210	273	332	384	438	491
East Medina SUD		12	18	24	30	35	40	45
La Coste		63	78	95	112	124	138	154
Yancey WSC		373	537	718	885	1,033	1,174	1,308
Rural		0	0	0	0	0	0	0
	Subtotal	605	858	1,134	1,391	1,614	1,835	2,049
Total Municipal New Supply Need		2,041	2,869	3,808	4,705	5,534	6,396	7,211
Industrial Demand								
Nueces Basin		56	67	75	82	89	95	103
San Antonio Basin		0	0	0	0	0	0	0
Total Industrial Demand		56	67	75	82	89	95	103
Industrial Existing Supply								
Nueces Basin		Edwards	546	546	546	546	546	546
San Antonio Basin			0	0	0	0	0	0
Total Industrial Existing Supply			546	546	546	546	546	546
Industrial Surplus/Shortage								
Nueces Basin			490	479	471	464	457	443
San Antonio Basin			0	0	0	0	0	0
Total Industrial Surplus/Shortage			490	479	471	464	457	443

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Industrial New Supply Need								
Nueces Basin		0	0	0	0	0	0	0
San Antonio Basin		0	0	0	0	0	0	0
Total Industrial New Supply Need		0	0	0	0	0	0	0
Steam-Electric Demand								
Nueces Basin		0	0	0	0	0	0	0
San Antonio Basin		0	0	0	0	0	0	0
Total Steam-Electric Demand		0	0	0	0	0	0	0
Steam-Electric Existing Supply								
Nueces Basin		0	0	0	0	0	0	0
San Antonio Basin		0	0	0	0	0	0	0
Total Steam-Electric Existing Supply		0	0	0	0	0	0	0
Steam-Electric Surplus/Shortage								
Nueces Basin		0	0	0	0	0	0	0
San Antonio Basin		0	0	0	0	0	0	0
Total Steam-Electric Surplus/Shortage		0	0	0	0	0	0	0
Steam-Electric New Supply Need								
Nueces Basin		0	0	0	0	0	0	0
San Antonio Basin		0	0	0	0	0	0	0
Total Steam-Electric New Supply Need		0	0	0	0	0	0	0
Irrigation Demand¹								
Nueces Basin		47,000	45,357	43,465	41,654	39,919	38,257	36,665
San Antonio Basin		9,422	9,093	8,714	8,351	8,003	7,670	7,350
Total Irrigation Demand		56,422	54,450	52,179	50,005	47,922	45,927	44,015
Irrigation Supply								
Nueces Basin	Edwards	38,128	38,128	38,128	38,128	38,128	38,128	38,128
	Carrizo	3,196	3,084	2,956	2,832	2,714	2,601	2,493
Nueces Basin Subtotal		41,324	41,212	41,084	40,960	40,842	40,729	40,621
San Antonio Basin	Edwards	13,846	13,846	13,846	13,846	13,846	13,846	13,846
	Run-of-River	1	1	1	1	1	1	1
	Carrizo	19	19	19	19	19	19	19
San Antonio Basin Subtotal		13,866	13,866	13,866	13,866	13,866	13,866	13,866
Total Irrigation Supply		55,190	55,078	54,950	54,826	54,708	54,595	54,487
Irrigation Surplus/Shortage								
Nueces Basin		-5,676	-4,145	-2,381	-694	923	2,472	3,956
San Antonio Basin		4,444	4,773	5,152	5,515	5,863	6,196	6,516
Total Irrigation Surplus/Shortage		-1,232	628	2,771	4,821	6,786	8,668	10,472
Irrigation New Supply Need								
Nueces Basin		5,676	4,145	2,381	694	0	0	0
San Antonio Basin		0	0	0	0	0	0	0
Total Irrigation New Supply Need		5,676	4,145	2,381	694	0	0	0
Mining Demand								
Nueces Basin		62	68	71	72	73	74	75
San Antonio Basin		56	62	64	65	66	67	68
Total Mining Demand		118	130	135	137	139	141	143

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		Total in 2000 (acft)	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	
Mining Supply									
Nueces Basin	Carrizo	35	39	41	41	42	42	43	
	Trinity	27	29	30	31	31	32	32	
Subtotal		62	68	71	72	73	74	75	
San Antonio Basin	Carrizo	1	1	1	1	1	1	1	
	Trinity	24	27	27	28	28	29	29	
Subtotal		25	28	28	29	29	30	30	
Total Mining Supply		87	96	99	101	102	104	105	
Mining Surplus/Shortage									
Nueces Basin		0	0	0	0	0	0	0	
San Antonio Basin		-31	-34	-36	-36	-37	-37	-38	
Total Mining Surplus/Shortage		-31	-34	-36	-36	-37	-37	-38	
Mining New Supply Need									
Nueces Basin		0	0	0	0	0	0	0	
San Antonio Basin		31	34	36	36	37	37	38	
Total Mining New Supply Need		31	34	36	36	37	37	38	
Livestock Demand									
Nueces Basin		1,116	1,116	1,116	1,116	1,116	1,116	1,116	
San Antonio Basin		182	182	182	182	182	182	182	
Total Livestock Demand		1,298	1,298	1,298	1,298	1,298	1,298	1,298	
Livestock Supply									
Nueces Basin	Local	1,116	1,116	1,116	1,116	1,116	1,116	1,116	
San Antonio Basin	Local	182	182	182	182	182	182	182	
Total Livestock Supply		1,298	1,298	1,298	1,298	1,298	1,298	1,298	
Livestock Surplus/Shortage									
Nueces Basin		0	0	0	0	0	0	0	
San Antonio Basin		0	0	0	0	0	0	0	
Total Livestock Surplus/Shortage		0	0	0	0	0	0	0	
Livestock New Supply Need									
Nueces Basin		0	0	0	0	0	0	0	
San Antonio Basin		0	0	0	0	0	0	0	
Total Livestock New Supply Need		0	0	0	0	0	0	0	
Total Medina County Demand									
Municipal		6,616	7,576	8,660	9,656	10,510	11,395	12,234	
Industrial		56	67	75	82	89	95	103	
Steam-Electric		0	0	0	0	0	0	0	
Irrigation		56,422	54,450	52,179	50,005	47,922	45,927	44,015	
Mining		118	130	135	137	139	141	143	
Livestock		1,298	1,298	1,298	1,298	1,298	1,298	1,298	
Total County Demand		64,510	63,521	62,347	61,178	59,958	58,856	57,793	
Total Medina County Supply									
Municipal		5,197	5,197	5,197	5,197	5,197	5,197	5,197	
Industrial		546	546	546	546	546	546	546	
Steam-Electric		0	0	0	0	0	0	0	
Irrigation		55,190	55,078	54,950	54,826	54,708	54,595	54,487	
Mining		87	96	99	101	102	104	105	
Livestock		1,298	1,298	1,298	1,298	1,298	1,298	1,298	
Total County Supply		62,318	62,215	62,090	61,968	61,851	61,740	61,633	

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Basin	Source	Projections						
		Total in 2000 (acft)	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Total Medina County Surplus/Shortage								
Municipal		-1,419	-2,379	-3,463	-4,459	-5,313	-6,198	-7,037
Industrial		490	479	471	464	457	451	443
Steam-Electric		0	0	0	0	0	0	0
Irrigation		-1,232	628	2,771	4,821	6,786	8,668	10,472
Mining		-31	-34	-36	-36	-37	-37	-38
Livestock		0	0	0	0	0	0	0
Total County Surplus/Shortage		-2,192	-1,306	-257	790	1,893	2,884	3,840
Total Basin Demand								
Nueces								
Municipal		5,050	5,749	6,549	7,280	7,905	8,562	9,181
Industrial		56	67	75	82	89	95	103
Steam-Electric		0	0	0	0	0	0	0
Irrigation		47,000	45,357	43,465	41,654	39,919	38,257	36,665
Mining		62	68	71	72	73	74	75
Livestock		1,116	1,116	1,116	1,116	1,116	1,116	1,116
Total Nueces Basin Demand		53,284	52,357	51,276	50,204	49,102	48,104	47,140
San Antonio								
Municipal		1,566	1,827	2,111	2,376	2,605	2,833	3,053
Industrial		0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0
Irrigation		9,422	9,093	8,714	8,351	8,003	7,670	7,350
Mining		56	62	64	65	66	67	68
Livestock		182	182	182	182	182	182	182
Total San Antonio Basin Demand		11,226	11,164	11,071	10,974	10,856	10,752	10,653
Total Basin Supply								
Nueces								
Municipal		4,086	4,086	4,086	4,086	4,086	4,086	4,086
Industrial		546	546	546	546	546	546	546
Steam-Electric		0	0	0	0	0	0	0
Irrigation		41,324	41,212	41,084	40,960	40,842	40,729	40,621
Mining		62	68	71	72	73	74	75
Livestock		1,116	1,116	1,116	1,116	1,116	1,116	1,116
Total Nueces Basin Supply		47,134	47,028	46,903	46,780	46,663	46,551	46,444
San Antonio								
Municipal		1,111	1,111	1,111	1,111	1,111	1,111	1,111
Industrial		0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0
Irrigation		13,866	13,866	13,866	13,866	13,866	13,866	13,866
Mining		25	28	28	29	29	30	30
Livestock		182	182	182	182	182	182	182
Total San Antonio Basin Supply		15,184	15,187	15,187	15,188	15,188	15,189	15,189
Total Basin Surplus/Shortage								
Nueces								
Municipal		-964	-1,663	-2,463	-3,194	-3,819	-4,476	-5,095
Industrial		490	479	471	464	457	451	443
Steam-Electric		0	0	0	0	0	0	0
Irrigation		-5,676	-4,145	-2,381	-694	923	2,472	3,956
Mining		0	0	0	0	0	0	0
Livestock		0	0	0	0	0	0	0
Total Nueces Basin Surplus/Shortage		-6,150	-5,329	-4,373	-3,424	-2,439	-1,553	-696

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Basin	Source	Total in	Projections						
		2000 (acft)	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	
San Antonio									
Municipal		-455	-716	-1,000	-1,265	-1,494	-1,722	-1,942	
Industrial		0	0	0	0	0	0	0	
Steam-Electric		0	0	0	0	0	0	0	
Irrigation		4,444	4,773	5,152	5,515	5,863	6,196	6,516	
Mining		-31	-34	-36	-36	-37	-37	-38	
Livestock		0	0	0	0	0	0	0	
Total San Antonio Basin Surplus/Shortage		3,958	4,023	4,116	4,214	4,332	4,437	4,536	
Groundwater Supplies									
Available									
Nueces	Edwards	41,552	41,552	41,552	41,552	41,552	41,552	41,552	
San Antonio	Edwards	15,116	15,116	15,116	15,116	15,116	15,116	15,116	
Nueces	Carrizo	6,946	6,946	6,946	6,946	6,946	6,946	6,946	
San Antonio	Carrizo	20	20	20	20	20	20	20	
Nueces	Trinity	714	714	714	714	714	714	714	
San Antonio	Trinity	146	146	146	146	146	146	146	
Total Available		64,494	64,494	64,494	64,494	64,494	64,494	64,494	
Allocated									
Nueces	Edwards	41,552	41,552	41,552	41,552	41,552	41,552	41,552	
San Antonio	Edwards	15,116	15,116	15,116	15,116	15,116	15,116	15,116	
Nueces	Carrizo	5,659	5,551	5,424	5,301	5,184	5,071	4,963	
San Antonio	Carrizo	20	20	20	20	20	20	20	
Nueces	Trinity	27	29	30	31	31	32	32	
San Antonio	Trinity	25	27	28	29	29	30	30	
Total Allocated		62,398	62,295	62,170	62,049	61,932	61,821	61,714	
Total Unallocated		2,096	2,199	2,324	2,445	2,562	2,673	2,780	
Note:									
¹ The projected irrigation demand for Medina County does not include conveyance losses of surface water from the BMA canal system between the diversion points and the irrigated farms. Pursuant to TWDB guidelines for regional water planning, supplies from the Medina Lake System are not included because they are not reliable during severe drought.									