

Table 4-3								
Projected Water Demands, Supplies, and Needs								
Caldwell County								
South Central Texas Region								
Basin	Source	Total in	Projections					
		2000 (acft)	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Municipal Demand								
Guadalupe Basin								
Aqua WSC		194	267	339	396	458	518	580
County Line WSC		114	204	308	405	501	600	695
Creedmore-Maha WSC		68	98	127	154	181	207	235
Goforth WSC		112	184	269	342	417	495	571
Gonzales County WSC		46	63	79	94	108	122	136
Lockhart		1,795	2,451	3,094	3,629	4,180	4,725	5,285
Luling		888	1,067	1,210	1,299	1,384	1,486	1,594
Martindale		107	125	134	139	143	150	158
Martindale WSC		93	142	153	158	162	170	179
Maxwell WSC		334	503	678	844	996	1,166	1,331
Mustang Ridge		9	13	18	21	25	29	33
Niederwald		11	26	43	61	78	95	111
Polonia WSC		322	466	618	749	884	1,016	1,155
Rural		207	214	201	177	154	136	122
	Subtotal	4,300	5,823	7,271	8,468	9,671	10,915	12,185
Lower Colorado Basin								
Creedmore-Maha WSC		94	136	177	213	250	287	325
Mustang Ridge		84	122	160	194	228	262	296
Polonia WSC		140	202	268	325	384	441	501
Rural		23	23	22	22	22	21	21
	Subtotal	341	483	627	754	884	1,011	1,143
Total Municipal Demand		4,641	6,306	7,898	9,222	10,555	11,926	13,328
Municipal Existing Supply								
Guadalupe Basin								
Aqua WSC	Carrizo	218	218	218	218	218	218	218
County Line WSC	Edwards	16	16	16	16	16	16	16
	Canyon (CRWA)	339	339	339	339	339	339	339
County Line WSC Total		355	355	355	355	355	355	355
Creedmore-Maha WSC	Edwards (Barton Springs)	263	263	263	263	263	263	263
Goforth WSC	Edwards (Barton Springs)	155	155	155	155	155	155	155
Gonzales County WSC	Carrizo	44	44	44	44	44	44	44
	Canyon (GBRA)	21	21	21	21	21	21	21
Gonzales County WSC Subtotal		65	65	65	65	65	65	65
Lockhart	Carrizo	2,110	2,110	2,110	2,110	2,110	2,110	2,110
Luling	Carrizo	706	706	706	706	706	706	706
	Run-of-River	193	193	193	193	193	193	193
Luling Subtotal		899	899	899	899	899	899	899
Martindale	Canyon (CRWA)	170	170	170	170	170	170	170
Martindale WSC	Canyon (CRWA)	610	610	610	610	610	610	610
Maxwell WSC	Edwards	149	149	149	149	149	149	149
Mustang Ridge	estimate Carrizo	11	11	11	11	11	11	11
Niederwald	estimate Carrizo	14	14	14	14	14	14	14
Polonia WSC	Carrizo	653	653	653	653	653	653	653
Rural	Carrizo	86	86	86	86	86	86	86
	Queen City	123	121	125	129	132	135	138
	Run-of-River	500	500	500	500	500	500	500
Rural Subtotal		709	707	711	715	718	721	724
	Subtotal	6,381	6,379	6,383	6,387	6,390	6,393	6,396
Lower Colorado Basin								
Creedmore-Maha WSC	Edwards (Barton Springs)	363	363	363	363	363	363	363
Mustang Ridge	estimate Carrizo	105	105	105	105	105	105	105
Polonia WSC	Carrizo	284	284	284	284	284	284	284
Rural	Carrizo	29	29	29	29	29	29	29
	Subtotal	781	781	781	781	781	781	781
Total Municipal Existing Supply		7,162	7,160	7,164	7,168	7,171	7,174	7,177

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Municipal Surplus/Shortage								
Guadalupe Basin								
	Aqua WSC	24	-49	-121	-178	-240	-300	-362
	County Line WSC	241	151	47	-50	-146	-245	-340
	Creedmore-Maha WSC	195	165	136	109	82	56	28
	Goforth WSC	43	-29	-114	-187	-262	-340	-416
	Gonzales County WSC	19	2	-14	-29	-43	-57	-71
	Lockhart	315	-341	-984	-1,519	-2,070	-2,615	-3,175
	Luling	11	-168	-311	-400	-485	-587	-695
	Martindale	63	45	36	31	27	20	12
	Martindale WSC	517	468	457	452	448	440	431
	Maxwell WSC	-185	-354	-529	-695	-847	-1,017	-1,182
	Mustang Ridge	2	-2	-7	-10	-14	-18	-22
	Niederwald	3	-12	-29	-47	-64	-81	-97
	Polonia WSC	331	187	35	-96	-231	-363	-502
	Rural	686	684	689	693	696	700	703
	Subtotal	2,265	747	-709	-1,926	-3,149	-4,407	-5,688
Lower Colorado Basin								
	Creedmore-Maha WSC	269	227	186	150	113	76	38
	Mustang Ridge	21	-17	-55	-89	-123	-157	-191
	Polonia WSC	144	82	16	-41	-100	-157	-217
	Rural	6	6	7	7	7	8	8
	Subtotal	440	298	154	27	-103	-230	-362
Total Municipal Surplus/Shortage		2,705	1,045	-555	-1,899	-3,252	-4,637	-6,050
Municipal New Supply Need								
Guadalupe Basin								
	Aqua WSC	0	49	121	178	240	300	362
	County Line WSC	0	0	0	50	146	245	340
	Creedmore-Maha WSC	0	0	0	0	0	0	0
	Goforth WSC	0	29	114	187	262	340	416
	Gonzales County WSC	0	0	14	29	43	57	71
	Lockhart	0	341	984	1,519	2,070	2,615	3,175
	Luling	0	168	311	400	485	587	695
	Martindale	0	0	0	0	0	0	0
	Martindale WSC	0	0	0	0	0	0	0
	Maxwell WSC	185	354	529	695	847	1,017	1,182
	Mustang Ridge	0	2	7	10	14	18	22
	Niederwald	0	12	29	47	64	81	97
	Polonia WSC	0	0	0	96	231	363	502
	Rural	0	0	0	0	0	0	0
	Subtotal	185	955	2,109	3,210	4,401	5,622	6,861
Lower Colorado Basin								
	Creedmore-Maha WSC	0	0	0	0	0	0	0
	Mustang Ridge	0	17	55	89	123	157	191
	Polonia WSC	0	0	0	41	100	157	217
	Rural	0	0	0	0	0	0	0
	Subtotal	0	17	55	130	223	314	408
Total Municipal New Supply Need		185	972	2,164	3,340	4,624	5,936	7,269
Industrial Demand								
Guadalupe Basin								
		11	15	18	21	24	27	29
Lower Colorado Basin								
		0	0	0	0	0	0	0
Total Industrial Demand		11	15	18	21	24	27	29

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Industrial Existing Supply								
Guadalupe Basin	Carrizo	30	30	30	30	30	30	30
Lower Colorado Basin		0	0	0	0	0	0	0
Total Industrial Existing Supply		30	30	30	30	30	30	30
Industrial Surplus/Shortage								
Guadalupe Basin		19	15	12	9	6	3	1
Lower Colorado Basin		0	0	0	0	0	0	0
Total Industrial Surplus/Shortage		19	15	12	9	6	3	1
Industrial New Supply Need								
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Industrial New Supply Need		0	0	0	0	0	0	0
Steam-Electric Demand								
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Steam-Electric Demand		0	0	0	0	0	0	0
Steam-Electric Existing Supply								
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Steam-Electric Existing Supply		0	0	0	0	0	0	0
Steam-Electric Surplus/Shortage								
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado 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								
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Steam-Electric New Supply Need		0	0	0	0	0	0	0
Irrigation Demand								
Guadalupe Basin		974	1,029	914	812	722	641	570
Lower Colorado Basin		15	15	14	12	11	10	8
Total Irrigation Demand		989	1,044	928	824	733	651	578
Irrigation Supply								
Guadalupe Basin	Run-of-River	470	470	470	470	470	470	470
	Carrizo	448	473	420	374	332	295	262
	Queen City	85	89	81	74	68	62	56
Guadalupe Basin Subtotal		1,003	1,032	971	918	870	827	788
Lower Colorado Basin	Carrizo	15	15	14	12	11	10	8
Total Irrigation Supply		1,018	1,047	985	930	881	837	796
Irrigation Surplus/Shortage								
Guadalupe Basin		29	3	57	106	148	186	218
Lower Colorado Basin		0	0	0	0	0	0	0
Total Irrigation Surplus/Shortage		29	3	57	106	148	186	218
Irrigation New Supply Need								
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Irrigation New Supply Need		0	0	0	0	0	0	0

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Basin	Source	Total in	Projections					
		2000 (acft)	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Mining Demand								
Guadalupe Basin		5	5	6	6	6	7	7
Lower Colorado Basin		7	9	9	10	11	11	11
Total Mining Demand		12	14	15	16	17	18	18
Mining Supply								
Guadalupe Basin	Carrizo	5	5	6	6	6	7	7
Lower Colorado Basin	Carrizo	7	9	9	10	11	11	11
Total Mining Supply		12	14	15	16	17	18	18
Mining Surplus/Shortage								
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Mining Surplus/Shortage		0	0	0	0	0	0	0
Mining New Supply Need								
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Mining New Supply Need		0	0	0	0	0	0	0
Livestock Demand								
Guadalupe Basin		762	762	762	762	762	762	762
Lower Colorado Basin		156	156	156	156	156	156	156
Total Livestock Demand		918	918	918	918	918	918	918
Livestock Supply								
Guadalupe Basin	Local	762	762	762	762	762	762	762
Lower Colorado Basin	Local	156	156	156	156	156	156	156
Total Livestock Supply		918	918	918	918	918	918	918
Livestock Surplus/Shortage								
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Livestock Surplus/Shortage		0	0	0	0	0	0	0
Livestock New Supply Need								
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Livestock New Supply Need		0	0	0	0	0	0	0
Total Caldwell County Demand								
Municipal		4,641	6,306	7,898	9,222	10,555	11,926	13,328
Industrial		11	15	18	21	24	27	29
Steam-Electric		0	0	0	0	0	0	0
Irrigation		989	1,044	928	824	733	651	578
Mining		12	14	15	16	17	18	18
Livestock		918	918	918	918	918	918	918
Total County Demand		6,571	8,297	9,777	11,001	12,247	13,540	14,871
Total Caldwell County Supply								
Municipal		7,162	7,160	7,164	7,168	7,171	7,174	7,177
Industrial		30	30	30	30	30	30	30
Steam-Electric		0	0	0	0	0	0	0
Irrigation		1,018	1,047	985	930	881	837	796
Mining		12	14	15	16	17	18	18
Livestock		918	918	918	918	918	918	918
Total County Supply		9,140	9,169	9,112	9,062	9,017	8,977	8,939

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Basin	Source	Total in	Projections					
		2000 (acft)	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Total Caldwell County Surplus/Shortage								
Municipal		2,521	854	-734	-2,054	-3,384	-4,752	-6,151
Industrial		19	15	12	9	6	3	1
Steam-Electric		0	0	0	0	0	0	0
Irrigation		29	3	57	106	148	186	218
Mining		0	0	0	0	0	0	0
Livestock		0	0	0	0	0	0	0
Total County Surplus/Shortage		2,569	872	-665	-1,939	-3,230	-4,563	-5,932
Total Basin Demand								
Guadalupe								
Municipal		4,300	5,823	7,271	8,468	9,671	10,915	12,185
Industrial		11	15	18	21	24	27	29
Steam-Electric		0	0	0	0	0	0	0
Irrigation		974	1,029	914	812	722	641	570
Mining		5	5	6	6	6	7	7
Livestock		762	762	762	762	762	762	762
Total Guadalupe Basin Demand		6,052	7,634	8,971	10,069	11,185	12,352	13,553
Colorado								
Municipal		341	483	627	754	884	1,011	1,143
Industrial		0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0
Irrigation		15	15	14	12	11	10	8
Mining		7	9	9	10	11	11	11
Livestock		156	156	156	156	156	156	156
Total Colorado Basin Demand		519	663	806	932	1,062	1,188	1,318
Total Basin Supply								
Guadalupe								
Municipal		6,381	6,379	6,383	6,387	6,390	6,393	6,396
Industrial		30	30	30	30	30	30	30
Steam-Electric		0	0	0	0	0	0	0
Irrigation		1,003	1,032	971	918	870	827	788
Mining		5	5	6	6	6	7	7
Livestock		762	762	762	762	762	762	762
Unallocated Groundwater Supply		6,915	6,889	6,941	6,988	7,029	7,066	7,098
Total Guadalupe Basin Supply		15,096	15,097	15,093	15,091	15,088	15,085	15,081
Colorado								
Municipal		781	781	781	781	781	781	781
Industrial		0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0
Irrigation		15	15	14	12	11	10	8
Mining		7	9	9	10	11	11	11
Livestock		156	156	156	156	156	156	156
Unallocated Groundwater Supply		783	781	782	783	783	784	786
Total Colorado Basin Supply		1,742	1,742	1,742	1,742	1,742	1,742	1,742
Total Basin Surplus/Shortage								
Guadalupe								
Municipal		2,081	556	-888	-2,081	-3,281	-4,522	-5,789
Industrial		19	15	12	9	6	3	1
Steam-Electric		0	0	0	0	0	0	0
Irrigation		29	3	57	106	148	186	218
Mining		0	0	0	0	0	0	0
Livestock		0	0	0	0	0	0	0
Unallocated Groundwater Supply		6,915	6,889	6,941	6,988	7,029	7,066	7,098
Total Guadalupe Basin Surplus/Shortage		9,044	7,463	6,122	5,022	3,903	2,733	1,528

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Colorado									
Municipal		440	298	154	27	-103	-230	-362	
Industrial		0	0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0	0
Irrigation		0	0	0	0	0	0	0	0
Mining		0	0	0	0	0	0	0	0
Livestock		0	0	0	0	0	0	0	0
Unallocated Groundwater Supply		783	781	782	783	783	784	786	
Total Colorado Basin Surplus/Shortage		1,223	1,079	936	810	680	554	424	
Groundwater Supplies									
Available									
Guadalupe	Carrizo	11,550	11,550	11,550	11,550	11,550	11,550	11,550	11,550
Colorado	Carrizo	950	950	950	950	950	950	950	950
Guadalupe	Queen City	328	328	328	328	328	328	328	328
Total Available		12,828	12,828	12,828	12,828	12,828	12,828	12,828	12,828
Allocated									
Guadalupe	Carrizo	4,635	4,661	4,609	4,562	4,521	4,484	4,452	
Colorado	Carrizo	167	169	168	167	167	166	164	
Guadalupe	Queen City	328	328	328	328	328	328	328	
Total Allocated		5,130	5,158	5,105	5,057	5,015	4,978	4,943	
Total Unallocated		7,698	7,670	7,723	7,771	7,813	7,850	7,885	