

Table 4-14
Projected Water Demands, Supplies, and Needs
Kendall 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								
San Antonio Basin								
Boerne		1,170	1,570	2,188	2,843	3,370	3,831	4,282
Fair Oaks Ranch		152	286	296	300	305	310	316
Water Service Inc (Apex Water Ser)		37	43	52	61	69	75	81
Rural		748	1,080	1,506	1,939	2,304	2,620	2,930
	Subtotal	2,107	2,979	4,042	5,143	6,048	6,836	7,609
Guadalupe Basin								
Rural		1,131	1,635	2,279	2,936	3,487	3,966	4,434
	Subtotal	1,131	1,635	2,279	2,936	3,487	3,966	4,434
Lower Colorado Basin								
Rural		24	35	49	63	75	86	96
	Subtotal	24	35	49	63	75	86	96
	Total Municipal Demand	3,262	4,649	6,370	8,142	9,610	10,888	12,139
Municipal Existing Supply								
San Antonio Basin								
Boerne	Boerne Lake	506	506	506	506	506	506	506
	Canyon (GBRA)	1,861	1,861	1,861	1,861	1,861	1,861	1,861
	Trinity	463	446	447	448	448	368	369
	Boerne Subtotal	2,830	2,813	2,814	2,815	2,815	2,735	2,736
Fair Oaks Ranch	Trinity (Comal)	39	39	39	39	39	32	32
	Canyon (GBRA)	193	193	193	193	193	193	193
	Fair Oaks Ranch Subtotal	232	232	232	232	232	225	225
Water Service Inc (Apex Water Ser)	Edwards	2	2	2	2	2	2	2
Rural	Trinity	357	344	344	345	346	284	284
	Canyon (GBRA)	833	833	833	833	833	833	833
	Rural Subtotal	1,190	1,177	1,177	1,178	1,179	1,117	1,117
	Subtotal	4,255	4,225	4,226	4,228	4,229	4,080	4,081
Guadalupe Basin								
Rural	Edwards-Trinity	31	31	31	31	31	31	31
	Trinity	1,383	1,383	1,383	1,383	1,383	1,383	1,383
	Rural Subtotal	1,414	1,414	1,414	1,414	1,414	1,414	1,414
	Subtotal	1,414	1,414	1,414	1,414	1,414	1,414	1,414
Lower Colorado Basin								
Rural	Edwards-Trinity	30	30	30	30	30	30	30
	Subtotal	30	30	30	30	30	30	30
	Total Municipal Existing Supply	5,699	5,669	5,670	5,672	5,673	5,524	5,525
Municipal Surplus/Shortage								
San Antonio Basin								
Boerne		1,660	1,243	626	-28	-555	-1,096	-1,546
Fair Oaks Ranch		80	-54	-64	-68	-73	-85	-91
Water Service Inc (Apex Water Ser)		-35	-41	-50	-59	-67	-73	-79
Rural		442	97	-329	-761	-1,125	-1,503	-1,813
	Subtotal	2,148	1,246	184	-915	-1,819	-2,756	-3,528
Guadalupe Basin								
Rural		283	-221	-865	-1,522	-2,073	-2,552	-3,020
	Subtotal	283	-221	-865	-1,522	-2,073	-2,552	-3,020

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Lower Colorado Basin								
Rural		6	-5	-19	-33	-45	-56	-66
	Subtotal	6	-5	-19	-33	-45	-56	-66
Total Municipal Surplus/Shortage		2,437	1,020	-700	-2,470	-3,937	-5,364	-6,614
Municipal New Supply Need								
San Antonio Basin								
Boerne		0	0	0	28	555	1,096	1,546
Fair Oaks Ranch		0	54	64	68	73	85	91
Water Service Inc (Apex Water Ser)		35	41	50	59	67	73	79
Rural		0	0	329	761	1,125	1,503	1,813
	Subtotal	35	95	442	915	1,819	2,756	3,528
Guadalupe Basin								
Rural		0	221	865	1,522	2,073	2,552	3,020
	Subtotal	0	221	865	1,522	2,073	2,552	3,020
Lower Colorado Basin								
Rural		0	5	19	33	45	56	66
	Subtotal	0	5	19	33	45	56	66
Total Municipal New Supply Need		35	321	1,326	2,470	3,937	5,364	6,614
Industrial Demand								
San Antonio Basin		0	0	0	0	0	0	0
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Industrial Demand		0	0	0	0	0	0	0
Industrial Existing Supply								
San Antonio Basin		0	0	0	0	0	0	0
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Industrial Existing Supply		0	0	0	0	0	0	0
Industrial Surplus/Shortage								
San Antonio Basin		0	0	0	0	0	0	0
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Industrial Surplus/Shortage		0	0	0	0	0	0	0
Industrial New Supply Need								
San Antonio Basin		0	0	0	0	0	0	0
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								
San Antonio Basin		0	0	0	0	0	0	0
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

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Steam-Electric Existing Supply								
San Antonio Basin		0	0	0	0	0	0	0
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								
San Antonio Basin		0	0	0	0	0	0	0
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								
San Antonio Basin		0	0	0	0	0	0	0
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								
San Antonio Basin		107	194	189	185	181	177	174
Guadalupe Basin		289	520	510	500	490	481	472
Lower Colorado Basin		0	0	0	0	0	0	0
Total Irrigation Demand		396	714	699	685	671	658	646
Irrigation Supply								
San Antonio Basin	Trinity	41	71	70	68	67	54	53
Guadalupe Basin	Run-of-River	187	187	187	187	187	187	187
	Trinity	188	339	332	326	319	313	307
Guadalupe Basin Subtotal		375	526	519	513	506	500	494
Lower Colorado Basin		0	0	0	0	0	0	1
Total Irrigation Supply		416	597	589	581	573	554	548
Irrigation Surplus/Shortage								
San Antonio Basin		-66	-123	-119	-117	-114	-123	-121
Guadalupe Basin		86	6	9	13	16	19	22
Lower Colorado Basin		0	0	0	0	0	0	0
Total Irrigation Surplus/Shortage		20	-117	-110	-104	-98	-104	-99
Irrigation New Supply Need								
San Antonio Basin		66	123	119	117	114	123	121
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		0	0	0	0	0	0	0
Total Irrigation New Supply Need		66	123	119	117	114	123	121
Mining Demand								
San Antonio Basin		0	0	0	0	0	0	0
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin		6	6	6	6	6	6	6
Total Mining Demand		6	6	6	6	6	6	6

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Mining Supply								
San Antonio Basin		0	0	0	0	0	0	0
Guadalupe Basin		0	0	0	0	0	0	0
Lower Colorado Basin	Trinity	6	6	6	6	6	6	6
Lower Colorado Basin Subtotal		6	6	6	6	6	6	6
Total Mining Supply		6	6	6	6	6	6	6
Mining Surplus/Shortage								
San Antonio Basin		0	0	0	0	0	0	0
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								
San Antonio Basin		0	0	0	0	0	0	0
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								
San Antonio Basin		80	80	80	80	80	80	80
Guadalupe Basin		353	353	353	353	353	353	353
Lower Colorado Basin		13	13	13	13	13	13	13
Total Livestock Demand		446	446	446	446	446	446	446
Livestock Supply								
San Antonio Basin	Local	80	80	80	80	80	80	80
Guadalupe Basin	Local	353	353	353	353	353	353	353
Lower Colorado Basin	Local	13	13	13	13	13	13	13
Total Livestock Supply		446	446	446	446	446	446	446
Livestock Surplus/Shortage								
San Antonio Basin		0	0	0	0	0	0	0
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								
San Antonio Basin		0	0	0	0	0	0	0
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 Kendall County Demand								
Municipal		3,262	4,649	6,370	8,142	9,610	10,888	12,139
Industrial		0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0
Irrigation		396	714	699	685	671	658	646
Mining		6	6	6	6	6	6	6
Livestock		446	446	446	446	446	446	446
Total County Demand		4,110	5,815	7,521	9,279	10,733	11,998	13,237

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Total Kendall County Supply								
Municipal		5,699	5,669	5,670	5,672	5,673	5,524	5,525
Industrial		0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0
Irrigation		416	597	589	581	573	554	548
Mining		6	6	6	6	6	6	6
Livestock		446	446	446	446	446	446	446
Total County Supply		6,567	6,718	6,711	6,705	6,698	6,530	6,525
Total Kendall County Surplus/Shortage								
Municipal		2,437	1,020	-700	-2,470	-3,937	-5,364	-6,614
Industrial		0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0
Irrigation		20	-117	-110	-104	-98	-104	-98
Mining		0	0	0	0	0	0	0
Livestock		0	0	0	0	0	0	0
Total County Surplus/Shortage		2,457	903	-810	-2,574	-4,035	-5,468	-6,712
Total Basin Demand								
San Antonio								
Municipal		2,107	2,979	4,042	5,143	6,048	6,836	7,609
Industrial		0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0
Irrigation		107	194	189	185	181	177	174
Mining		0	0	0	0	0	0	0
Livestock		80	80	80	80	80	80	80
Total San Antonio Basin Demand		2,294	3,253	4,311	5,408	6,309	7,093	7,863
Guadalupe								
Municipal		1,131	1,635	2,279	2,936	3,487	3,966	4,434
Industrial		0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0
Irrigation		289	520	510	500	490	481	472
Mining		0	0	0	0	0	0	0
Livestock		353	353	353	353	353	353	353
Total Guadalupe Basin Demand		1,773	2,508	3,142	3,789	4,330	4,800	5,259
Lower Colorado								
Municipal		24	35	49	63	75	86	96
Industrial		0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0
Irrigation		0	0	0	0	0	0	0
Mining		6	6	6	6	6	6	6
Livestock		13	13	13	13	13	13	13
Total Lower Colorado Basin Demand		43	54	68	82	94	105	115
Total Basin Supply								
San Antonio								
Municipal		4,255	4,225	4,226	4,228	4,229	4,080	4,081
Industrial		0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0
Irrigation		41	71	70	68	67	54	53
Mining		0	0	0	0	0	0	0
Livestock		80	80	80	80	80	80	80
Total San Antonio Basin Supply		4,376	4,376	4,376	4,376	4,376	4,214	4,214

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		Total in							
		2000 (acft)	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	
Guadalupe									
Municipal		1,414	1,414	1,414	1,414	1,414	1,414	1,414	1,414
Industrial		0	0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0	0
Irrigation		375	526	519	513	506	500	494	
Mining		0	0	0	0	0	0	0	0
Livestock		353	353	353	353	353	353	353	353
Unallocated Groundwater Supply		2,119	1,969	1,975	1,982	1,988	1,450	1,456	
Total Guadalupe Basin Supply		4,261	4,262	4,261	4,262	4,261	3,717	3,717	
Lower Colorado									
Municipal		30	30	30	30	30	30	30	30
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	1
Mining		6	6	6	6	6	6	6	6
Livestock		13	13	13	13	13	13	13	13
Unallocated Groundwater Supply		222	222	222	222	222	212	212	
Total Lower Colorado Basin Supply		271	271	271	271	271	261	262	
Total Basin Surplus/Shortage									
San Antonio									
Municipal		2,148	1,246	184	-915	-1,819	-2,756	-3,528	
Industrial		0	0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0	0
Irrigation		-66	-123	-119	-117	-114	-123	-121	
Mining		0	0	0	0	0	0	0	0
Livestock		0	0	0	0	0	0	0	0
Total San Antonio Basin Surplus/Shortage		2,082	1,123	65	-1,032	-1,933	-2,879	-3,649	
Guadalupe									
Municipal		283	-221	-865	-1,522	-2,073	-2,552	-3,020	
Industrial		0	0	0	0	0	0	0	0
Steam-Electric		0	0	0	0	0	0	0	0
Irrigation		86	6	9	13	16	19	22	
Mining		0	0	0	0	0	0	0	0
Livestock		0	0	0	0	0	0	0	0
Unallocated Groundwater Supply		2,119	1,969	1,975	1,982	1,988	1,450	1,456	
Total Guadalupe Basin Surplus/Shortage		2,488	1,754	1,119	473	-69	-1,083	-1,542	
Lower Colorado									
Municipal		6	-5	-19	-33	-45	-56	-66	
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	1	
Mining		0	0	0	0	0	0	0	0
Livestock		0	0	0	0	0	0	0	0
Unallocated Groundwater Supply		222	222	222	222	222	212	212	
Total Lower Colorado Basin Surplus/Shortage		228	217	203	189	177	156	147	

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Groundwater Supplies								
Available								
Colorado	Edwards-Trinity	207	207	207	207	207	207	207
Guadalupe	Edwards-Trinity	698	698	698	698	698	698	698
Colorado	Trinity	51	51	51	51	51	41	41
Guadalupe	Trinity	3,023	3,023	3,023	3,023	3,023	2,479	2,479
San Antonio	Trinity	861	861	861	861	861	706	706
Total Available		4,840	4,840	4,840	4,840	4,840	4,131	4,131
Allocated								
Colorado	Edwards-Trinity	30	30	30	30	30	30	30
Guadalupe	Edwards-Trinity	31	31	31	31	31	31	31
Colorado	Trinity	6	6	6	6	6	6	6
Guadalupe	Trinity	1,571	1,721	1,715	1,708	1,702	1,696	1,690
San Antonio	Trinity	861	861	861	861	861	706	706
Total Allocated		2,499	2,649	2,643	2,636	2,630	2,469	2,463
Total Unallocated		2,341	2,191	2,197	2,204	2,210	1,662	1,668