

### **4.3 Major Water Providers**

The term “Major Water Provider” (MWP) is new to Texas water planning and has been introduced through SB1 to recognize that many utilities obtain their water supply from regional (i.e., major) entities. Examples of MWPs could include river authorities, larger water districts, or cities providing water to surrounding areas. Each Regional Water Planning Group (RWPG) is required to identify and include MWPs in their water supply planning.

#### **4.3.1 Major Water Provider List**

The Brazos G RWPG has adopted by resolution the following entities as Major Water Providers<sup>1</sup>

1. Brazos River Authority
2. West Central Texas Municipal Water District
3. City of Abilene
4. City of Waco
5. City of Round Rock
6. Central Texas Water Supply Corporation
7. Bell County WCID No. 1
8. Lower Colorado River Authority

#### **4.3.2 Major Water Provider Summary Sheets**

Summaries of each MWP, including a brief description, contracts for water sales, and supplies are provided in Figures 4-1 through 4-8.

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<sup>1</sup> Entities were identified as possible MWP's using this criteria: 1) Provides either raw or treated water for municipal and industrial purposes, and 2) of their 1996 total water use, they supplied more than 10 percent on a wholesale basis to long-term contract holders; and 3) their total water use in 1996 was more than 5,000 acft.

**Name/Location: Brazos River Authority**

**Description:** The primary provider of water to the Brazos G Region is the Brazos River Authority. The BRA also operates water and wastewater treatment systems, has programs to assess and protect water quality, does water supply planning and supports water conservation efforts in the Brazos River Basin. BRA provides water from three wholly owned and operated reservoirs in the region: Lake Granbury, Possum Kingdom Lake, and Lake Limestone. BRA also contracts for conservation storage space in the nine U.S. Army Corps of Engineers reservoirs in the region: Lakes Waco, Proctor, Belton, Stillhouse Hollow, Georgetown, Granger, Somerville, Whitney, and Aquilla. The total permitted capacity of these twelve reservoirs in the BRA system is approximately 2.3 million acft. BRA holds rights for diversion in the region totaling more than 662,000 acft, and contracts to supply water to municipal, industrial and agricultural water customers in the BGRWPA and other regions. BRA's largest municipal customers in 1999 included Bell County Water Control and Improvement District No. 1, the City of Round Rock, and the Central Texas Water Supply Corporation.

**Projected Demands:**

Major Long-term Water Supply Needs (from 2001 Brazos G, Region H and Llano Estacado Regional Water Plans)	Year (acft)					
	2000	2010	2020	2030	2040	2050
Possum Kingdom/Granbury/Whitney	173,251	172,102	172,102	172,102	172,102	171,998
Stillhouse/Georgetown/Granger	63,618	60,035	60,120	60,161	60,188	60,200
Proctor	16,517	15,445	15,445	15,445	15,445	15,445
Belton	97,302	97,047	97,065	95,442	95,423	95,147
Aquilla	9,138	9,138	8,365	7,304	6,242	5,114
Limestone	46,837	46,836	46,836	46,836	46,836	46,836
Somerville	4,624	4,619	4,619	4,619	4,619	4,619
System <sup>1</sup>	136,706	136,706	136,706	136,706	136,706	136,706
Total Contracted Demand <sup>2</sup>	547,993	541,928	541,258	538,615	537,561	536,065
Potential Additional Water Supply Needs <sup>3</sup>	39,910	95,431	139,757	196,978	295,150	346,047
Projected Total Demand	587,903	637,359	681,015	735,593	832,711	882,112

<sup>1</sup> System demands may be met from any of the reservoirs in the BRA System.  
<sup>2</sup> Water assigned to the BRA system by the 2001 Brazos G, Region H and Llano Estacado Regional Water Plans Appendix B Table 5  
<sup>3</sup> Additional water assigned in the above regional water plans in Appendix B Table 12.

**Supply (reservoir firm yield):**

Source	Year (acft)					
	2000	2010	2020	2030	2040	2050
Possum Kingdom/Granbury/Whitney	348,408	345,409	342,410	339,412	336,413	333,414
Stillhouse/Georgetown/Granger	104,975	103,237	101,499	99,761	98,023	96,286
Proctor	21,897	21,683	21,469	21,254	21,040	20,826
Belton	106,511	106,001	105,491	104,981	104,471	103,961
Aquilla	13,478	11,805	10,132	8,460	6,787	5,114
Limestone	64,646	63,412	62,178	60,943	59,709	58,475
Somerville	41,191	40,681	40,171	39,661	39,151	38,641
Lake Alan Henry	29,900	29,900	29,900	29,900	29,900	29,900
Total Supply <sup>1</sup>	731,006	722,128	713,250	704,372	695,494	686,617

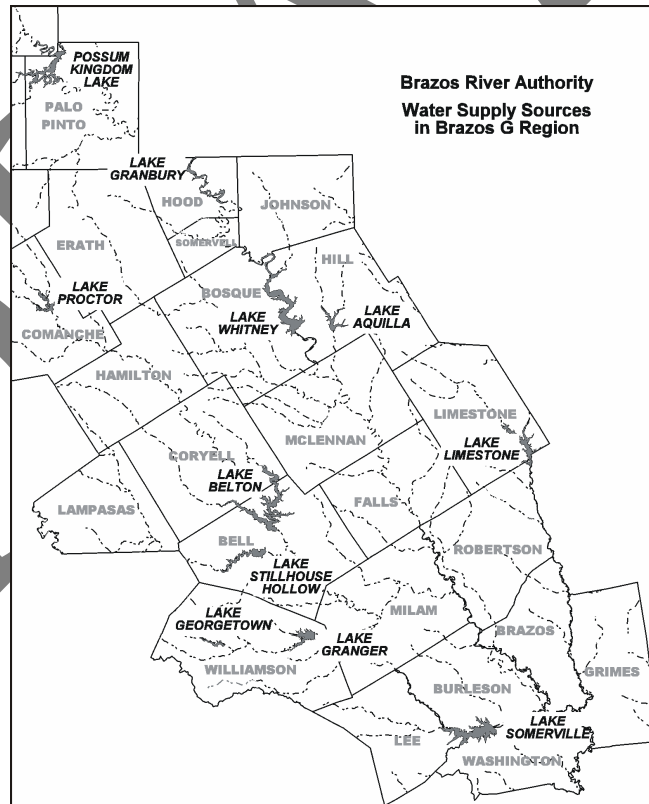
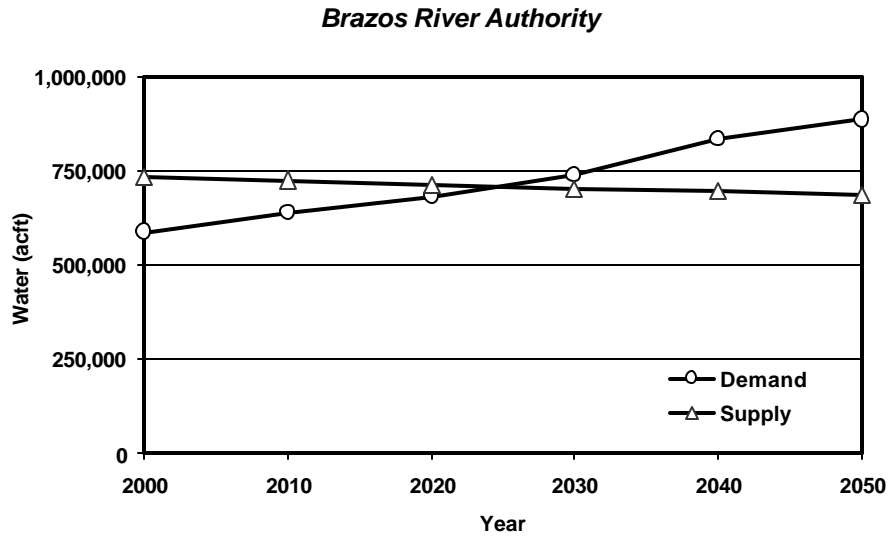
<sup>1</sup> Total supply from BRA System is currently limited to 696,901 acft/yr by TNRCC permits. Use of supplies above this amount would require permit amendments or new permits.

**Projected Balance:**

	Year (acft)					
	2000	2010	2020	2030	2040	2050
Balance/(Shortage)	143,103	84,769	32,235	(31,221)	(137,217)	(195,495)

**Figure 4-1. Major Water Provider Summary — Brazos River Authority**

**Summary:** The BRA System has supply slightly in excess of current long-term water sales contracts. The BRA also makes varying amounts of water (from 4,000 to 50,000 acft, depending on weather conditions) available on a short-term basis. The 2001 Brazos G, Region H and Llano Estacado (Region O) Water Plans indicate that potential needs exceed current supplies between 2020 and 2030.



**Figure 4-1. Major Water Provider Summary — Brazos River Authority (concluded)**

**Name/Location: West Central Texas Municipal Water District (Stevens, Jones, Shackelford, and Taylor Counties)**

**Description:** The West Central Texas Municipal Water District (MWD) holds water rights in Hubbard Creek Reservoir that authorize it to divert up to 56,000 acft of water per year from the reservoir for municipal, industrial, irrigation, mining, domestic, and livestock use. The District provides raw water to its member cities of Abilene, Albany, Anson, and Breckenridge. The District holds a long-term contract with the Colorado River Municipal Water District (CRMWD) for 16 percent of the yield in O.H. Ivie Reservoir (~15,000 acft) and a supporting contract with the City of Abilene to provide this water to the city.

**Projected Demands:**

Major Water Contracts	Year (acft)					
	2000	2010	2020	2030	2040	2050
City of Abilene	17,362	17,362	17,362	17,362	17,362	17,362
City of Albany	1,882	1,882	1,882	1,882	1,882	1,882
City of Anson	2,061	2,061	2,061	2,061	2,061	2,061
City of Breckenridge	2,487	2,487	2,487	2,487	2,487	2,487
Total Demand	23,792	23,792	23,792	23,792	23,792	23,792

**Supply:**

Source	Year (acft)					
	2000	2010	2020	2030	2040	2050
Hubbard Creek Reservoir (firm yield)	43,399	42,389	41,379	40,369	39,359	38,349
O.H. Ivie Reservoir (contract)	15,000	15,000	15,000	15,000	15,000	15,000

**Projected Balance:**

	Year (acft)					
	2000	2010	2020	2030	2040	2050
Balance/(Shortage)	34,607	33,597	32,587	31,577	30,567	29,557

**Summary:** The West Central Texas MWD has water supply in excess of current contracted demands.

**Figure 4-2. Major Water Provider Summary — West Central Texas MWD**

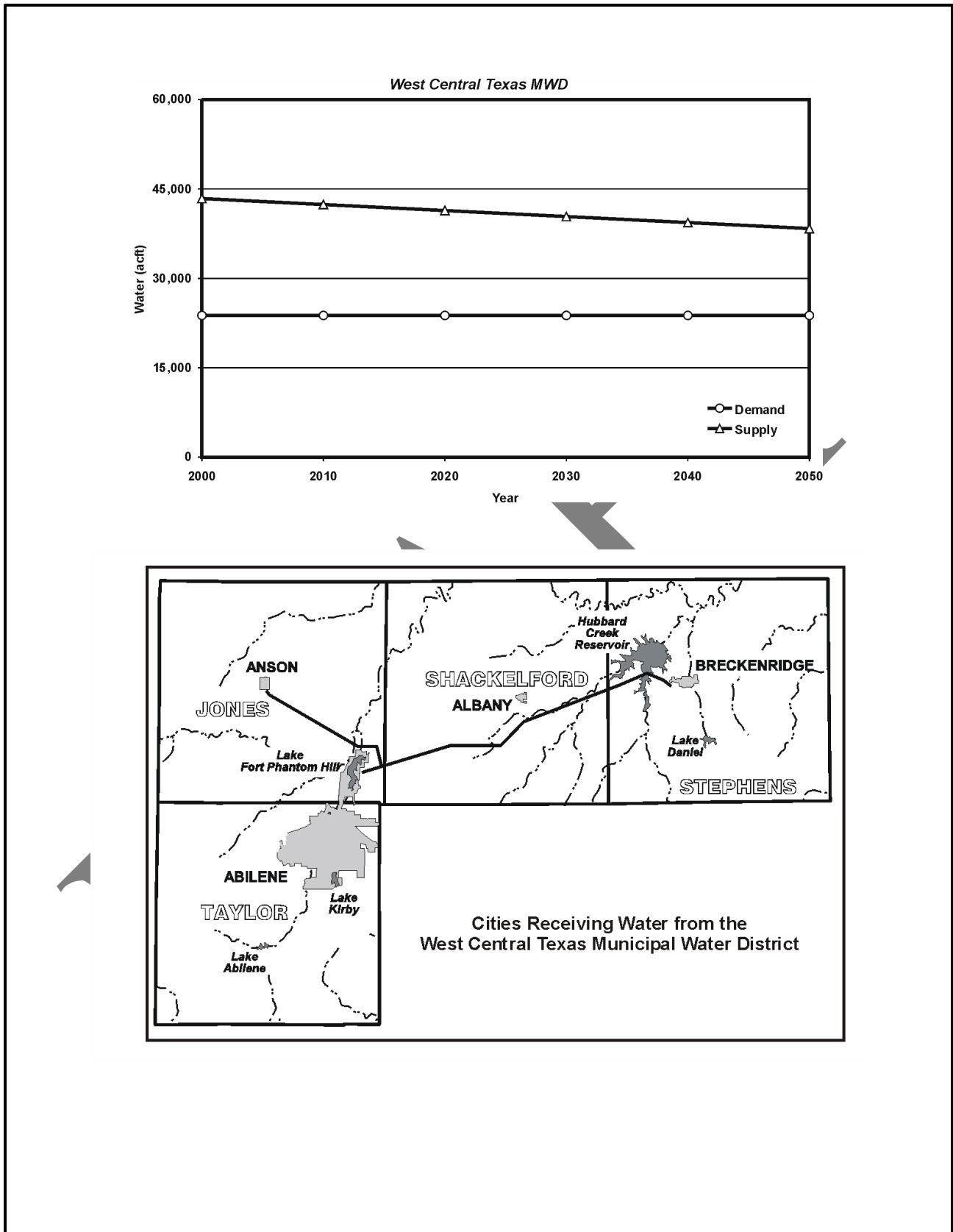


Figure 4-2. Major Water Provider Summary — West Central Texas MWD (concluded)

**Name/Location: City of Abilene (Taylor, Jones, Shackelford, and Callahan Counties)**

**Description:** The City of Abilene relies on Lakes Fort Phantom Hill, Kirby, and Abilene and water from West Central Texas MWD to meet its needs. The City also has a contract with West Central Texas MWD for ~15,000 acft of O.H Ivie Reservoir, owned by the Colorado River Municipal Water District. The City provides treated water to several other water supply entities in the area.

**Projected Demands:**

Major Water Contracts	Year (acft)					
	2000	2010	2020	2030	2040	2050
Municipal <sup>1</sup>						
City of Abilene	27,943	30,570	33,768	36,034	38,449	40,015
City of Baird	49	61	73	86	98	110
City of Clyde	57	95	132	170	208	246
City of Merkel	419	397	374	352	329	307
City of Tye	201	183	165	147	129	110
City of Stamford	0	50	123	164	205	246
City of Hamlin	0	100	215	286	358	430
Hamby WSC	357	451	545	639	733	828
Hawley WSC	357	451	545	639	733	828
Potosi WSC	357	451	545	639	733	828
Steamboat Mountain WSC	535	676	818	959	1,100	1,241
Sun WSC	357	451	545	639	733	828
View -Caps WSC	310	423	427	649	762	875
Blair WSC	125	158	191	224	257	290
Fairway Oaks Golf Course	118	118	118	118	118	118
Eula WSC	71	90	109	128	147	166
Industrial <sup>1</sup>						
Coca-Cola Bottling Co. of N. Texas	381	515	649	782	916	1,049
Pride Refining, Inc.	370	500	630	760	890	1,020
U.S. Air Force	1,427	1,929	2,429	2,930	3,430	3,931
West Texas Utilities	1,782	2,226	2,669	3,113	3,556	4,000
<b>Total Demand</b>	<b>35,217</b>	<b>39,895</b>	<b>45,070</b>	<b>49,458</b>	<b>53,884</b>	<b>57,463</b>

<sup>1</sup> These are demands as determined by the City of Abilene and do not necessarily represent contract limits.

**Supply:**

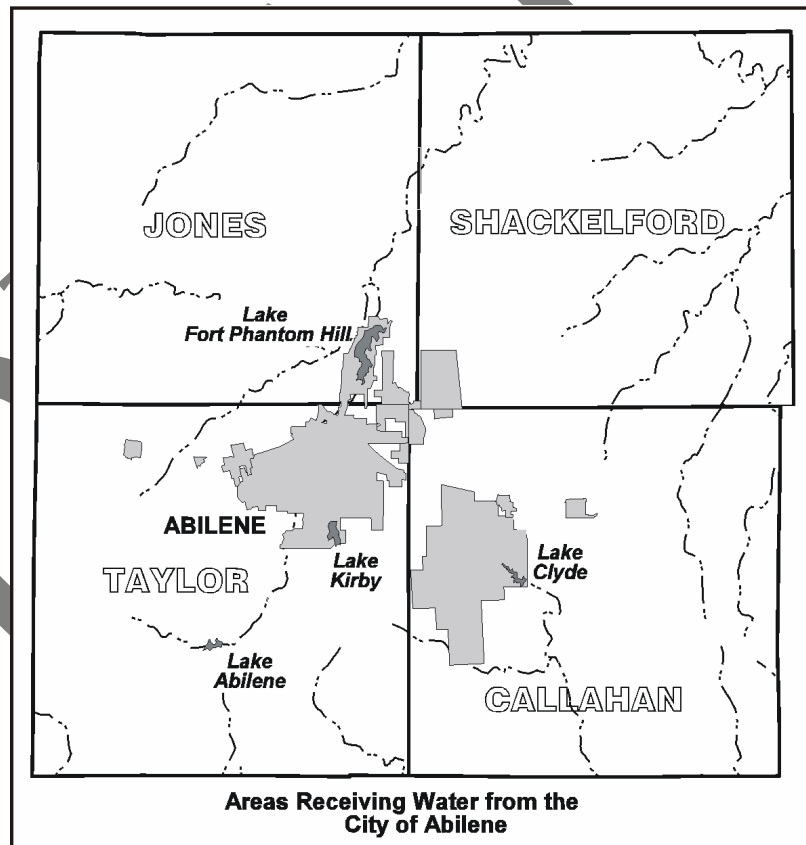
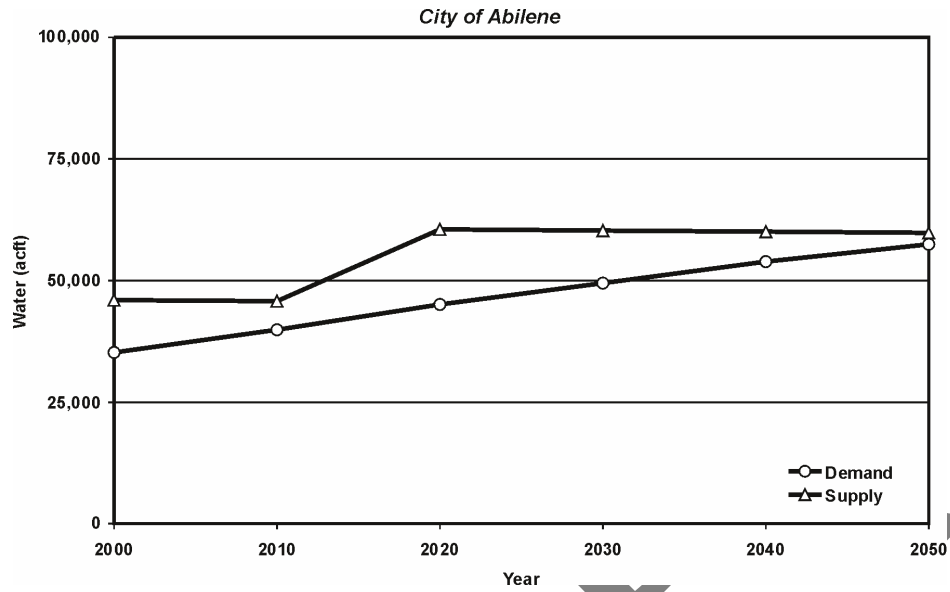
Source	Year (acft)					
	2000	2010	2020	2030	2040	2050
Lake Abilene	1,450	1,384	1,318	1,252	1,186	1,120
Fort Phantom Hill (Municipal)	20,372	20,200	20,028	19,856	19,684	19,512
Fort Phantom Hill (Steam-Electric)	6,500	6,500	6,500	6,500	6,500	6,500
Lake Kirby	300	300	300	300	300	300
Lake O.H. Ivie			15,000	15,000	15,000	15,000
West Central Texas MWD	17,362	17,362	17,362	17,362	17,362	17,362
<b>Total Supply</b>	<b>45,984</b>	<b>45,746</b>	<b>60,508</b>	<b>60,270</b>	<b>60,032</b>	<b>59,794</b>

**Projected Balance:**

	Year (acft)					
	2000	2010	2020	2030	2040	2050
Balance/(Shortage)	10,768	5,852	15,439	10,812	6,148	2,331

**Figure 4-3. Major Water Provider Summary — City of Abilene**

**Summary:** The City of Abilene has water available to meet its contractual commitments through the year 2050.



**Figure 4-3. Major Water Provider Summary — City of Abilene (concluded)**

**Name/Location: City of Waco (McLennan County)**

**Description:** The City of Waco obtains water from Lake Waco on the Bosque River, and owns water rights to divert 58,200 acft/yr from the lake for municipal use and 900 acft/yr for irrigation. The City is also a party with the Brazos River Authority to divert an additional 20,769 acft from the enlargement of Lake Waco for a total permitted supply of 79,869 acft/yr from Lake Waco. Waco also owns a run-of-the-river water right to divert up to 5,600 acft/yr from the Brazos River, but does not currently use this water right. Waco provides treated water to several water supply entities in the area, as listed below.

**Projected Demands:**

Major Water Contracts	Year (acft)					
	2000	2010	2020	2030	2040	2050
Municipal <sup>1</sup>						
City of Waco	27,698	29,880	30,427	33,533	36,778	39,053
City of Hewitt <sup>1</sup>	699	1,326	1,892	2,045	2,088	2,050
City of Lacy-Lakeview <sup>1</sup>	94	126	129	148	160	186
City of Woodway <sup>1</sup>	864	1,164	1,290	1,473	1,638	1,889
City of Bellmead						
Industrial (1996 Use)						
Allergan, Incorporated	138	138	138	138	138	138
Huck International, Inc.	250	250	250	250	250	250
M & M/Mars	444	444	444	444	444	444
Oak Farms Dairy	109	109	109	109	109	109
Owens -Brockway Glass Container	112	112	112	112	112	112
Plantation Foods, Inc.	475	475	475	475	475	475
Waco Reddy Ice	64	64	64	64	64	64
Irrigation	900	900	900	900	900	900
Total Demand	31,847	34,988	36,230	39,691	43,156	45,670

<sup>1</sup> Determined by taking city's projected demand less available supplies from other sources.

**Supply:**

Source	Year (acft)					
	2000	2010	2020	2030	2040	2050
Lake Waco <sup>1</sup>	79,870	79,870	79,870	79,870	79,870	79,870
Run-of-River	5,600	5,600	5,600	5,600	5,600	5,600
Total Supply	85,470	85,470	85,470	85,470	85,470	85,470

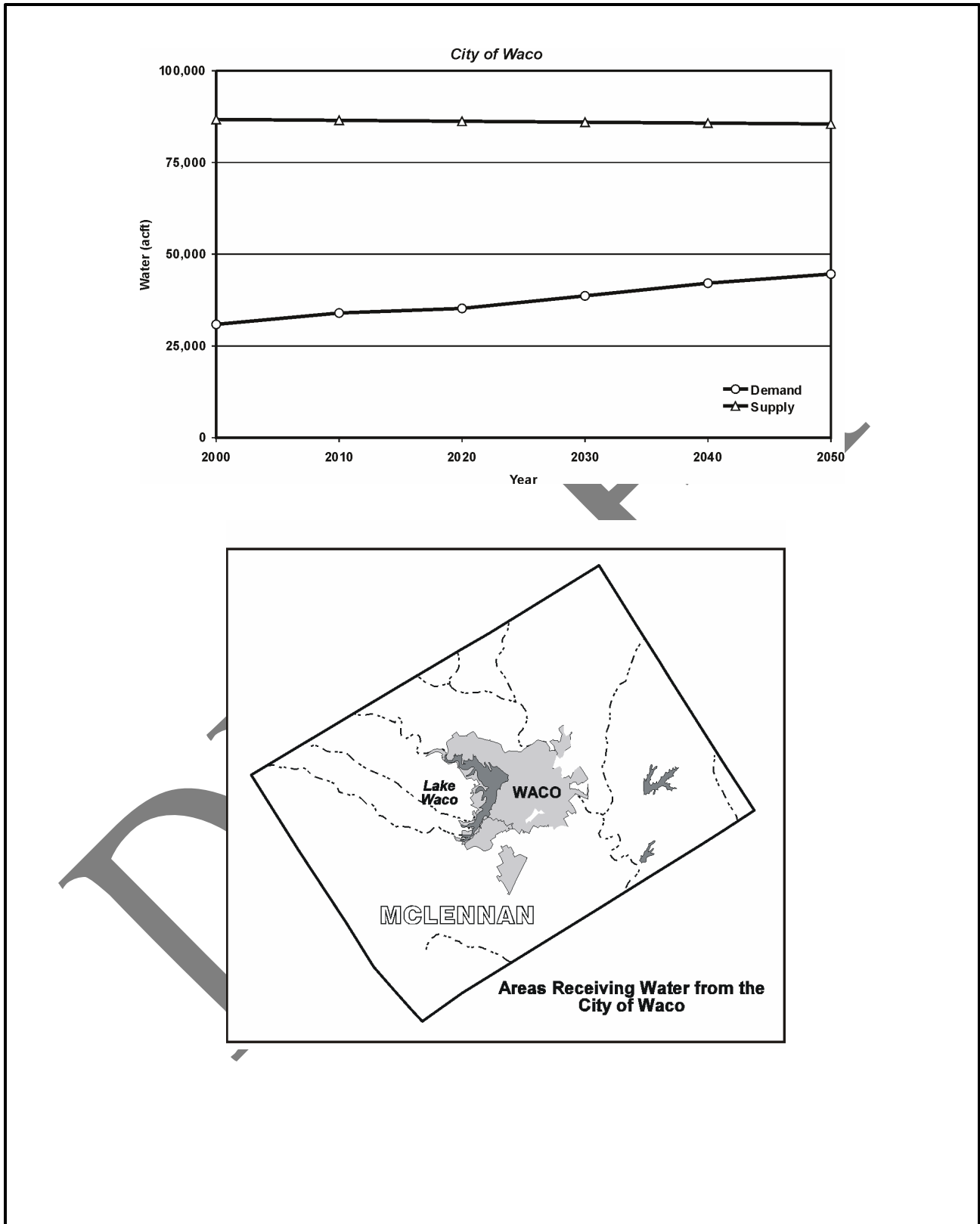
<sup>1</sup> Includes supply available from enlargement of Lake Waco. Infrastructure supply constraints not included.

**Projected Balance:**

	Year (acft)					
	2000	2010	2020	2030	2040	2050
Balance/(Shortage)	53,623	50,482	49,240	45,779	42,315	39,800

**Summary:** The City of Waco has water supply in excess of projected 2050 demands.

**Figure 4-4. Major Water Provider Summary — City of Waco**



**Figure 4-4. Major Water Provider Summary — City of Waco (concluded)**

**Name/Location: City of Round Rock (Williamson County)**

**Description:** The City of Round Rock obtains its water supply from Lake Stillhouse Hollow, Lake Georgetown, and the Edwards BFZ Aquifer. The City provides several industries and other water supply entities with treated water, as indicated below.

**Projected Demands:**

Major Water Contracts	Year (acft)					
	2000	2010	2020	2030	2040	2050
Municipal						
City of Round Rock	13,339	19,672	26,345	30,839	35,318	40,225
Brushy Creek MUD	3,360	0	0	0	0	0
Fern Bluff MUD	393	485	543	572	590	600
Williamson Co. MUD #9	190	230	257	269	278	282
Industrial (1996 Demands)						
Cypress Semiconductor (Tx) Inc.	341	341	341	341	341	341
Dell Computer	133	133	133	133	133	133
Tal/Tex, Inc. (Tonkawa Springs)	171	171	171	171	171	171
Dupont Photomasks, Inc.	40	40	40	40	40	40
Teco-Westinghouse Motor Co.	39	39	39	39	39	39
McNeil Consumer Healthcare	31	31	31	31	31	31
Tellabs, Inc.	21	21	21	21	21	21
TN Technologies, Inc.	7	7	7	7	7	7
Featherlite Building Products, Corp.	5	5	5	5	5	5
Williamson County Water Co. Inc.	2	2	2	2	2	2
<b>Total Demand</b>	<b>18,072</b>	<b>21,177</b>	<b>27,935</b>	<b>32,470</b>	<b>36,976</b>	<b>41,897</b>

**Supply:**

Source	Year (acft)					
	2000	2010	2020	2030	2040	2050
Lake Georgetown	6,720	6,720	6,720	6,720	6,720	6,720
Lake Stillhouse Hollow	18,134	18,134	18,134	18,134	18,134	18,134
Edwards BFZ (GW)	921	921	921	921	921	921
<b>Total Supply</b>	<b>25,775</b>	<b>25,775</b>	<b>25,775</b>	<b>25,775</b>	<b>25,775</b>	<b>25,775</b>

**Projected Balance:**

	Year (acft)					
	2000	2010	2020	2030	2040	2050
Balance/(Shortage)	7,703	4,598	(2,160)	(6,695)	(11,201)	(16,122)

**Summary:** The City of Round Rock is projected to meet demands through 2010. Starting around 2017, the City of Round Rock is projected to have a shortage of water. By the year 2050, Round Rock will need an additional 16,122 acft of water to meet its demands.

**Figure 4-5. Major Water Provider Summary — City of Round Rock**



Figure 4-5. Major Water Provider Summary — City of Round Rock (concluded)

**Name/Location: Central Texas Water Supply Corporation (Bell, Falls, Lampasas, Milam, and Williamson Counties)**

**Description:** The Central Texas Water Supply Corporation (WSC) provides water to a number of water supply corporations and cities in Bell, Williamson, and Lampasas Counties. The Central Texas WSC obtains water under contract with the Brazos River Authority from Lake Stillhouse Hollow.

**Projected Demands:**

Major Water Contracts	Year (a cft)					
	2000	2010	2020	2030	2040	2050
City of Belton	271	271	271	271	271	271
City of Holland	258	258	258	258	258	258
City of Lott	184	184	184	184	184	184
City of Rogers	368	368	368	368	368	368
City of Rosebud	500	500	500	500	500	500
Armstrong Water Supply Corp.	280	280	280	280	280	280
Bell County WCID 5	37	37	37	37	37	37
Bell-Milam-Falls W.S.C.	446	446	446	446	446	446
Dog Ridge WSC	671	671	671	671	671	671
East Bell Co. WSC	341	341	341	341	341	341
Kempner WSC	3,500	3,500	3,500	3,500	3,500	3,500
Little Elm Valley WSC	147	147	147	147	147	147
Town of Buckholts-Water Dept.	174	174	174	174	174	174
Town of Oenaville And Belfalls	57	57	57	57	57	57
West Bell County WSC	921	921	921	921	921	921
Westphalia WSC	45	45	45	45	45	45
Total Demand	8,200	8,200	8,200	8,200	8,200	8,200

**Supply:**

Source	Year (acft)					
	2000	2010	2020	2030	2040	2050
BRA Contract (Stillhouse)	14,045	14,045	14,045	14,045	14,045	14,045

**Projected Balance:**

	Year (acft)					
	2000	2010	2020	2030	2040	2050
Balance/(Shortage)	5,845	5,845	5,845	5,845	5,845	5,845

**Summary:** The Central Texas WSC has water supply in excess of projected 2050 demands.

**Figure 4-6. Major Water Provider Summary — Central Texas WSC**

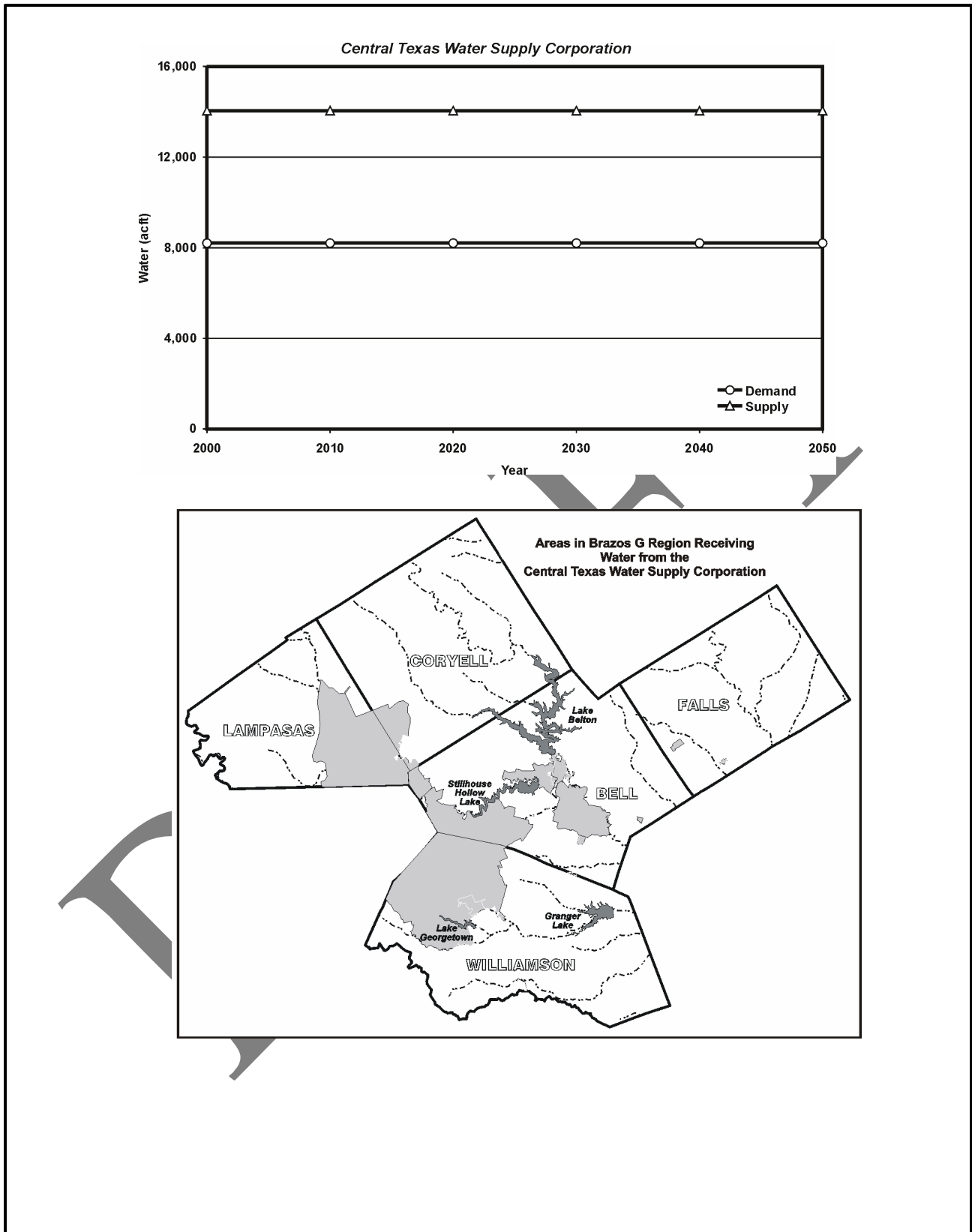


Figure 4-6. Major Water Provider Summary — Central Texas WSC (concluded)

**Name/Location: Bell County Water Control and Improvement District No.1 (Bell and Coryell Counties)**

**Description:** Bell County Water Control and Improvement District (WCID) No. 1 obtains all of its water from Lake Belton by a contract with the Brazos River Authority for 49,509 acft/yr. Bell County WCID No. 1 also provides treated water to several other water supply entities in the region, as listed below.

**Projected Demands:**

Major Water Contracts	Year (acft)					
	2000	2010	2020	2030	2040	2050
City of Belton	4,966	4,966	4,966	4,966	4,966	4,966
City of Copperas Cove	7,824	7,824	7,824	7,824	7,824	7,824
City of Harker Heights	5,265	5,265	5,265	5,265	5,265	5,265
City of Killeen	29,964	29,964	29,964	29,964	29,964	29,964
City of Nolanville (Bell Co. WCID No. 3)	740	740	740	740	740	740
439 Water Supply Corp	750	750	750	750	750	750
Total Demand	49,509	49,509	49,509	49,509	49,509	49,509

**Supply:**

Source	Year (acft)					
	2000	2010	2020	2030	2040	2050
BRA Contract (Belton)	49,509	49,509	49,509	49,509	49,509	49,509

**Projected Balance:**

	Year (acft)					
	2000	2010	2020	2030	2040	2050
Balance/(Shortage)	0	0	0	0	0	0

**Summary:** Bell County WCID No. 1 has water supply to meet its contract obligations.

**Figure 4-7. Major Water Provider Summary — Bell County WCID No. 1**

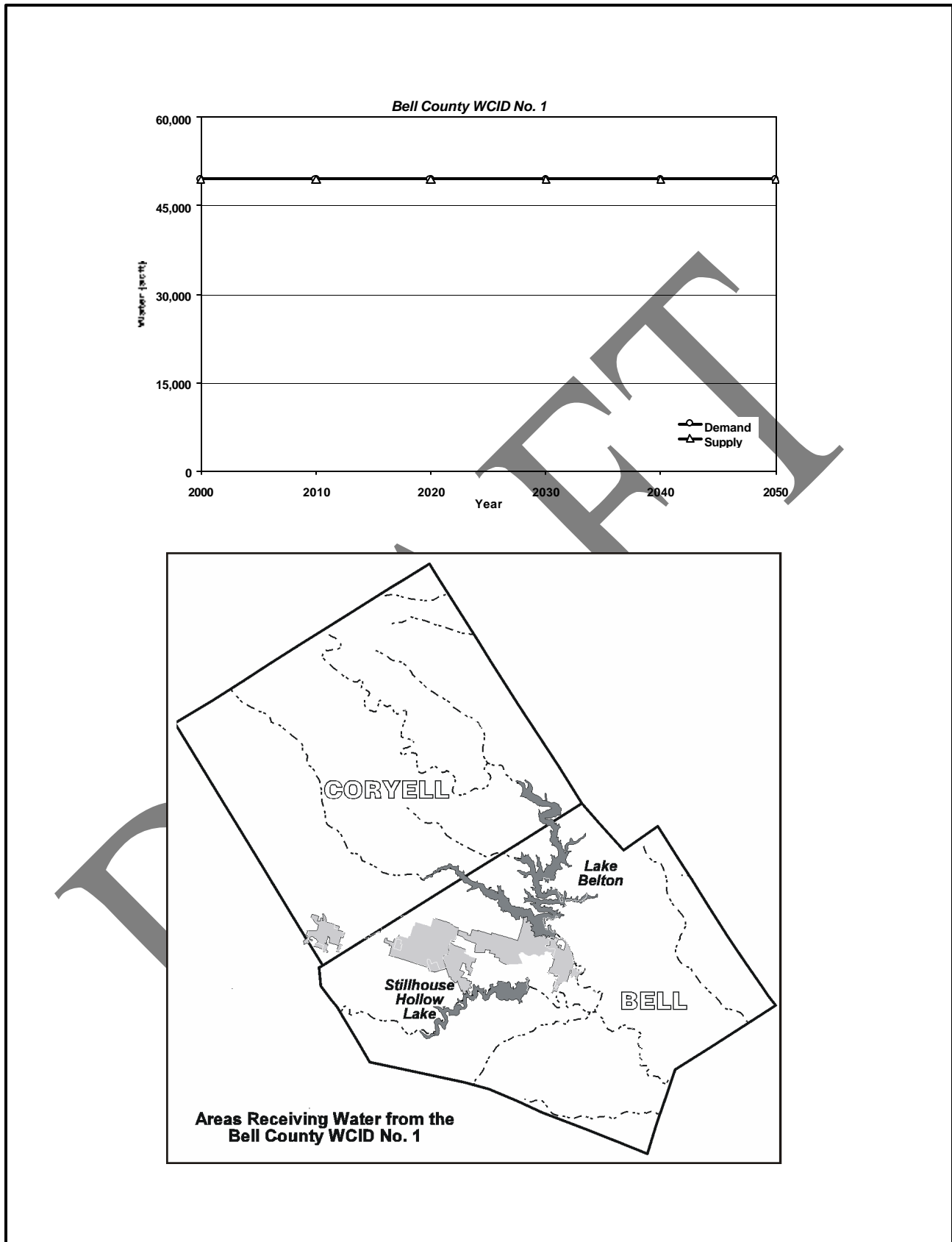


Figure 4-7. Major Water Provider Summary — Bell County WCID No. 1 (concluded)

**Name/Location: Lower Colorado River Authority (LCRA)**

**Description:** The LCRA is a conservation and reclamation district created by the Legislature of the State of Texas in 1934. The LCRA operates six reservoirs on the Colorado River, south of the Brazos G Planning Region. The LCRA sells water for municipal, irrigation, and industrial use in the Colorado River Basin and portions of Williamson County and Lampasas County in the Brazos G Planning Region. The LCRA and the irrigation companies it owns also export water out of the Basin to areas in the Brazos-Colorado Coastal Basin, the Colorado-Lavaca Coastal Basin, and the Lavaca River Basin. The City of Austin obtains water from LCRA and supplies part of Williamson County, although the city of Austin service area is not in the Brazos G Region.

**Projected Demands:**

Major Water Contracts	Year (acft)					
	2000	2010	2020	2030	2040	2050
City of Cedar Park	16,500	16,500	16,500	16,500	16,500	16,500
City of Leander	6,400	6,400	6,400	6,400	6,400	6,400
City of Lometa	450	450	450	450	450	450
BRA/LCRA Alliance <sup>1</sup>	25,000	25,000	25,000	25,000	25,000	25,000
Total Demand	48,350	48,350	48,350	48,350	48,350	48,350

<sup>1</sup> BRA/LCRA Alliance is going to contract with LCRA to purchase 25,000 acft/yr from the Highland Lakes, as allowed by HB 1437.

**Supply:**

Source	Year (acft)					
	2000	2010	2020	2030	2040	2050
Highland Lakes	48,350	48,350	48,350	48,350	48,350	48,350

**Projected Balance:**

	Year (acft)					
	2000	2010	2020	2030	2040	2050
Balance/(Shortage)	0	0	0	0	0	0

**Summary:** The LCRA has water supply available to meet contractual commitments in the Brazos G Region through 2050.

**Figure 4-8. Major Water Provider Summary — LCRA**

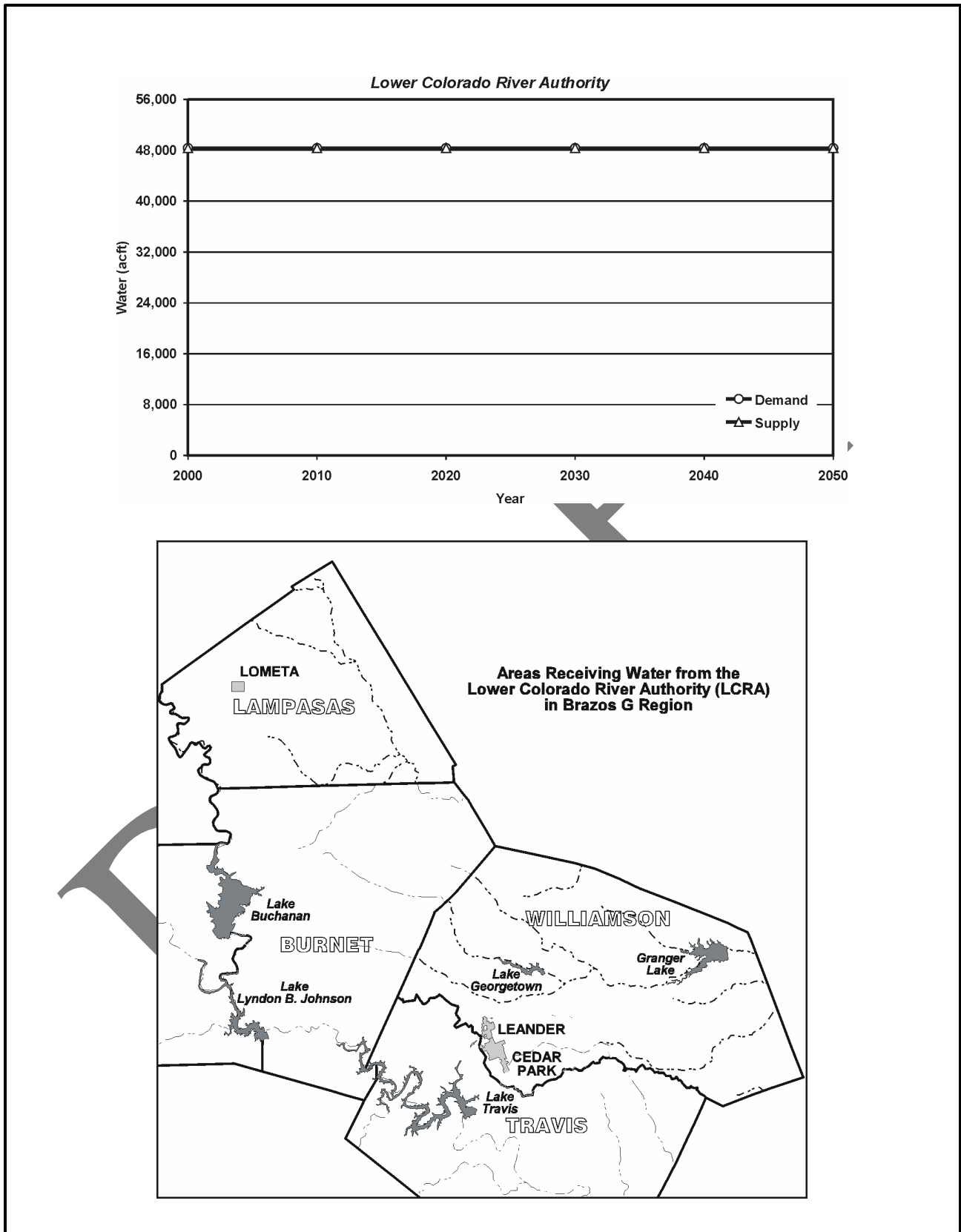


Figure 4-8. Major Water Provider Summary — LCRA (concluded)

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