

#### **4.4 Special Water Resources**

Existing water rights and water supply contracts supplied from special water resources are to be honored by each regional planning group when developing water plans. To this end, and to provide a tool by which the Brazos G Region can coordinate water supplies leaving or entering the region, a table of water contracts existing at each special water resource in Brazos G was prepared. These tables were submitted for review and comment to the consultant for each regional planning group that receives water from the resource.

Eleven of the 27 reservoirs named as special water resources by TWDB are located in the Brazos G Region and all of these eleven are Brazos River Authority system reservoirs.<sup>1</sup> The eleven BRA reservoirs are grouped together into a single summary table (Table 4.4-1). The other special water resources supply water into the Brazos G Region. Those reservoirs and their respective summary tables are: Lake Travis in Region K (Table 4.4-2); Oak Creek Reservoir in Region F (Table 4.4-3); and O.H. Ivie Reservoir in Region F (Table 4.4-4). In addition to these reservoirs named by TWDB, three additional reservoirs have been identified supplying water into or out of the Brazos G Region and are also summarized here. These additional special water resources are Miller's Creek Reservoir located in Region B (Table 4.4-5); Navarro Mills Reservoir located in Region C (Table 4.4-6); and Palo Pinto Reservoir located in Brazos G and provides water to Region C (Table 4.4-7).

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<sup>1</sup> The 11 special water resource reservoirs in the Brazos River Authority system are: Possum Kingdom, Granbury, Whitney, Aquilla, Proctor, Belton, Stillhouse Hollow, Georgetown, Granger, Somerville, and Limestone.

**Table 4.4-1.**  
**Special Water Resource Summary for BRA Reservoirs**

The following table summarizes supply and demand of the Brazos River Authority's reservoirs named as Special Water Resources. The reservoirs included in this table include Aquilla, Belton, Georgetown, Granbury, Granger, Limestone, Possum Kingdom, Proctor, Somerville, Stillhouse, and Whitney. This summary is used to coordinate water supply from Brazos G used in Region H, Region C, and Region O.

Owner: Brazos River Authority

<i>BRA Reservoirs</i>	<i>2000 (acft)</i>	<i>2030 (acft)</i>	<i>2050 (acft)</i>
Permitted Diversion	661,901	661,901	661,901
Firm Yield <sup>1</sup>	703,106	675,273	656,717
<b>Major Long-term Contract Holders</b>			
<b>Contract Amounts</b>			
In Region G			
Long-term Contracts	493,876	476,862	458,400
In Region H			
Dow Pipeline <sup>2</sup>	16,000	16,000	16,000
Gulf Coast Water Authority <sup>2</sup>	32,668	9,335	9,335
HL&P <sup>2</sup>	83,000	83,000	0
South Texas Water Co. <sup>2</sup>	5,625	0	0
In Region O			
City of Lubbock <sup>2</sup>	961	961	961
In Region C			
Vulcan Materials Co. <sup>2</sup>	35	35	35
<b>Total Surface Water Supply from BRA System</b>			
Region G	493,876	476,862	458,400
Region H	137,293	108,335	25,335
Region O	961	961	961
Region C	35	35	35
<b>Grand Total</b>	<b>632,165</b>	<b>586,193</b>	<b>484,731</b>
<sup>1</sup> Firm Yields from Brazos River Authority for SB1 Planning Study			
<sup>2</sup> Contract amounts shown include expirations. Some contracts may have renewal agreements, this table does not reflect those renewals			

**Table 4.4-2.  
Special Water Resource Summary for Highland Lakes**

The following table of the LCRA Highland Lake System includes diversions from Lake Travis. Lake Travis is located in Region K.

Owner: Lower Colorado River Authority

<b>LCRA Highland Lakes (Lake Travis)</b>	<b>2000 (acft)</b>	<b>2030 (acft)</b>	<b>2050 (acft)</b>
Permitted Diversion	1,500,000	1,500,000	1,500,000
Firm Yield <sup>1</sup>	445,766	445,766	445,766
<b>Major Long-term Contract Holders</b>		<b>Contract Amounts</b>	
In Region G			
City of Cedar Park	16,500	16,500	16,500
City of Leander <sup>2</sup>	6,400	6,400	6,400
City of Lometa <sup>2</sup>	450	450	450
City of Round Rock (from City of Austin)	5,376	0	0
BRA/LCRA Alliance (HB 1437) <sup>3</sup>	25,000	25,000	25,000
In Region K			
Contracts and Other Commitments <sup>4</sup>	392,040	397,416	397,416
<b>Total Surface Water Supply from LCRA Highland Lakes</b>			
Region G	53,726	48,350	48,350
Region K	392,040	397,416	397,416
<b>Grand Total</b>	<b>445,766</b>	<b>445,766</b>	<b>445,766</b>
<sup>1</sup> Firm Yield from LCRA for SB1 Planning Study			
<sup>2</sup> Committed by LCRA Board resolution			
<sup>3</sup> Pending			
<sup>4</sup> The remainder of the LCRA Highland Lakes Supply remains in Region K			

**Table 4.4-3.  
Special Water Resource Summary for Oak Creek Reservoir**

Oak Creek Reservoir is located within Region F

Owner: City of Sweetwater

<b>Oak Creek Reservoir</b>	<b>2000 (acft)</b>	<b>2030 (acft)</b>	<b>2050 (acft)</b>
Permitted Diversion	10,000	10,000	10,000
Firm Yield <sup>1</sup>	5,684	5,266	4,987
<b>Major Long-term Contract Holders</b>		<b>Contract Amounts</b>	
In Region G			
Bitter Creek WSC <sup>2</sup>	460	0	0
City of Roby <sup>2</sup>	350		
City of Roscoe <sup>2</sup>	560	560	560
City of Trent <sup>2</sup>	187	0	0
City of Sweetwater	2,520	3,234	3,755
In Region F			
City of Blackwell <sup>2</sup>	168	168	168
City of Bronte <sup>2</sup>	504	504	504
West Texas Utilities <sup>2</sup>	800	800	0
Fort Chadborne Ranch <sup>2</sup>	135		
<b>Total Surface Water Supply from Oak Creek Reservoir</b>			
Region G	4,077	3,794	4,315
Region F	1,607	1,472	672
<b>Grand Total</b>	<b>5,684</b>	<b>5,266</b>	<b>4,987</b>
<sup>1</sup> Firm yields estimated by Freese and Nichols as part of the SB1 Region F Planning Study.			
<sup>2</sup> Water supplied by the City of Sweetwater			

**Table 4.4-4.  
Special Water Resource Summary for O.H. Ivie Reservoir**

O.H. Ivie is located in Region F

Owner: Colorado River MWD

<i>OH Ivie Reservoir<sup>1</sup></i>	<i>2000 (acft)</i>	<i>2030 (acft)</i>	<i>2050 (acft)</i>
Permitted Diversion	113,000	113,000	113,000
Firm Yield <sup>2</sup>	96,169	93,397	91,830
<b><i>Major Long-term Contract Holders</i></b>		<b><i>Contract Amounts</i></b>	
In Region G			
City of Abilene	15,000	15,000	15,000
In Region F			
City of Midland	15,000	15,000	15,000
City of San Angelo	15,000	15,000	15,000
<b><i>Total Surface Water Supply from OH Ivie Reservoir</i></b>			
Region G	15,000	15,000	15,000
Region F	30,000	30,000	30,000
<b>Grand Total</b>	<b>45,000</b>	<b>45,000</b>	<b>45,000</b>
<sup>1</sup> All CRMWD contracts are based on safe yields			
<sup>2</sup> Firm yields estimated by Freese and Nichols as part of the SB1 Region F Planning Study			

**Table 4.4-5.  
Special Water Resource Summary for Miller's Creek Reservoir**

Miller's Creek is located in Region B

Owner: North Central Texas MWD

<i>Miller's Creek Reservoir</i>	<i>2000 (acft)</i>	<i>2030 (acft)</i>	<i>2050 (acft)</i>
Permitted Diversion	5,000	5,000	5,000
Firm Yield <sup>1</sup>	3,100	2,460	2,034
<b><i>Major Long-term Contract Holders</i></b>			
<b><i>Contract Amounts</i></b>			
In Region G			
City of Aspermont	93		
City of Benjamin	8		
City of Goree	63		
City of Haskell	504		
City of Knox City	267		
City of Munday	281		
City of O'Brien	6		
City of Rochester	13		
City of Rule	30		
Paint Creek WSC	54		
<b><i>Total Surface Water Supply from Miller's Creek Reservoir</i></b>			
Region G	1,319	0	0
<b>Grand Total</b>	<b>1,319</b>	<b>0</b>	<b>0</b>
<sup>1</sup> Firm Yield from 1990 TWDB State Water Plan			

**Table 4.4-6.  
Special Water Resource Summary for Navarro Mills Reservoir**

Navarro Mills is located in Region C

Owner: Trinity River Authority

<i>Navarro Mills Reservoir</i>	<i>2000 (acft)</i>	<i>2030 (acft)</i>	<i>2050 (acft)</i>
Permitted Diversion	19,400	19,400	19,400
Firm Yield <sup>1</sup>	22,900	19,400	19,130
<b><i>Major Long-term Contract Holders</i></b>		<b><i>Contract Amounts</i></b>	
In Region G			
Post Oak WSC <sup>2</sup>	353	353	353
In Region C			
Corsicana <sup>3</sup>	17,460	17,460	17,460
Dawson	368	368	368
Texas Industries	450	450	450
<b><i>Total Surface Water Supply from Navarro Mills Reservoir</i></b>			
Region G	353	353	353
Region C	18,278	18,278	18,278
<b>Grand Total</b>	<b>18,631</b>	<b>18,631</b>	<b>18,631</b>
<sup>1</sup> Firm Yield from Freese and Nichols for SB1 Water Planning Study (see Region C TWDB Table 4)			
<sup>2</sup> 53 acft/yr is estimated to supply users in Region C			
<sup>3</sup> Corsicana sells 207 acft/yr to the City of Hubbard in Region G			

**Table 4.4-7.  
Special Water Resource Summary for Palo Pinto Reservoir**

Lake Palo Pinto is located in Region G

Owner: Palo Pinto MWD No. 1

<i>Lake Palo Pinto</i>	<i>2000 (acft)</i>	<i>2030 (acft)</i>	<i>2050 (acft)</i>
Permitted Diversion	18,500	18,500	18,500
Firm Yield <sup>1</sup>	14,560	13,164	12,233
<b><i>Major Long-term Contract Holders</i></b>		<b><i>Contract Amounts</i></b>	
In Region G			
City of Mineral Wells	2,924	3,402	3,402
Parker County WSC	294	0	0
In Region C			
Millsap WSC	184	0	0
Region C County Other	0	144	164
<b><i>Total Surface Water Supply from Lake Palo Pinto</i></b>			
Region G	3,218	3,402	3,402
Region C	184	144	164
<b>Grand Total</b>	<b>3,402</b>	<b>3,546</b>	<b>3,566</b>
<sup>1</sup> Firm Yield estimated by HDR for Palo Pinto MWD No. 1 in a report titled "Yield Studies of Lake Palo Pinto and Turkey Peak Reservoir Sites."			