

Appendix A
Historical/Supplemental Data

Appendix A

Description of Tables

Table A-1. Historical Population. Table A-1 provides detailed historical population totals for each county in the BGRWPA for each decade from 1900 through 2000. Data for the period from 1900 to 1990 were obtained from the *Texas Almanac, 1994-1995*. Data for 2000 were obtained from the U.S. Census. Table A-1 also provides region totals for each year listed, percent change in population from decade to decade, the State's total population and its corresponding percent change from decade to decade.

Table A-2. Historical Population by Subregion. Table A-2 categorizes the data listed in Table A-1 by the subregions identified in the BGRWPA, including the Rolling Plains, IH-35 Corridor and Lower Basin. Population totals for each subregion are provided as the summation of the populations of the counties within that subregion.

Table A-3. Historical Use by Source. Table A-3 provides a listing of water use in the BGRWPA by source, either groundwater or surface water, for 1980 and 1984 through 2000. These data were obtained from the TWDB. The total water use for the region is also listed.

Table A-4. Historical Groundwater Pumpage by Aquifer. Table A-4 provides a detailed listing of groundwater use by aquifer for 1980 and 1984 through 2000. These data are a summary of data obtained from the TWDB for groundwater use in the BGRWPA.

Table A-5. BGRWPA Reservoirs. Table A-5 provides a complete listing of the reservoirs in the BGRWPA with a permitted capacity of at least 2,500 acre-feet. This table is provided to supplement Table 1-5 in the report.

Table A-6. Permitted Surface Water Diversions. Table A-6 lists the permitted diversions by county obtained from the TCEQ water-rights database. Table A-6 provides supplemental information to Table 1-6 in the report.

Table A-7. Historical Use by County. Table A-7 provides detailed water-use data by county for the BGRWPA for 1980 and 1984 through 2000. Region totals are also provided. The data were obtained from the TWDB.

Table A-8. Historical Water Use by Type. Table A-8 lists water use as municipal, manufacturing, power generation, mining, irrigation or livestock watering for the years 1980 and 1984 through 2000. Region totals are included for each year. All data were obtained from the TWDB.

Table A-9. Historical Water Use by County, Source and Type. Table A-9 provides 2000 water use by source and type for each county in the BGRWPA. The percentage of use by source for each county is also included. The data were obtained from the TWDB.

**Table A-6.
Permitted Surface Water Diversions**

County	Permitted Diversion ^{1, 2}					Total
	Municipal	Industrial	Irrigation	Mining	Other ³	
Bell	215,729	38,800	5,698	138	0	260,365
Bosque	2,611	5	9,411		0	12,027
Brazos		55,708	13,485		119	69,312
Burleson		420	8,040		1,000	9,460
Callahan	1,550		1,042		0	2,592
Comanche	19,858	11	13,299		0	33,168
Coryell			2,086		38	2,124
Eastland	8,871	556	2,513	1,607	0	13,547
Erath	80		5,853	30	25	5,988
Falls	6,224	2,000	9,532		0	17,756
Fisher		26	724	165	0	915
Grimes		15,850	2,193	200	0	18,243
Hamilton	614	3	3,330		45	3,992
Haskell	10,000		1,316		0	11,316
Hill	16,279		1,663		0	17,942
Hood	64,747		3,939		0	68,686
Johnson	6,980	300	907	125	0	8,312
Jones	29,532	4,007	7,420	383	0	41,342
Kent			554	5,900	0	6,454
Knox	34		2,233	235	0	2,502
Lampasas	4,642	48	2,370		0	7,060
Lee			182		0	182
Limestone	5,547	67	13		0	5,627
McLennan	98,225	37,074	7,360		0	142,659
Milam	2,792	32,212	8,844		0	43,848
Nolan	4,730	1,005	686		0	6,421
Palo Pinto	243,870	6,012	3,661	41	1,153	254,737
Robertson	65,074	30,777	15,668	685	488	112,692
Shackelford	711	50	158	63	0	982
Somervell	5,000	23,180	1,120		32	29,332
Stephens	58,100	97	1,178	218	0	59,593
Stonewall			8	867	0	875
Taylor	5,670	3,149	2,340		50	11,209
Throckmorton	660		9		0	669
Washington	48,000	20	2		0	48,022
Williamson	58,760	203	869	658	0	60,490
Young	11,250	8,509	1,304	600	0	21,663
Region Total	996,140	260,089	141,009	11,915	2,950	1,412,102
¹ Data obtained from the TCEQ water rights database, 2004. ² Diversion includes certificate of adjudication and permits. ³ Category Other includes hydroelectric, navigation, recreation and other uses as classified by the TCEQ						

**Table A-1.
BGRWPA Historical Population**

County	Historical Population¹										
	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000
Bell	45,535	49,186	46,412	50,030	44,863	73,824	94,097	124,483	157,889	191,088	237,974
Bosque	17,390	19,013	18,032	15,750	15,761	11,836	10,809	10,966	13,401	15,125	17,204
Brazos	18,859	18,919	21,975	21,835	26,977	38,390	44,895	57,978	93,588	121,862	152,415
Burleson	18,367	18,687	16,855	19,848	18,334	13,000	11,177	9,999	12,313	13,625	16,470
Callahan	8,768	12,973	11,844	12,785	11,568	9,087	7,929	8,205	10,992	11,859	12,905
Comanche	23,009	27,186	25,748	18,430	19,245	15,516	11,865	11,898	12,617	13,381	14,026
Coryell	21,308	21,703	20,601	19,999	20,226	16,284	23,961	35,311	56,767	64,213	74,978
Eastland	17,971	23,421	58,505	34,156	30,345	23,942	19,526	18,092	19,480	18,488	18,297
Erath	29,966	32,095	28,385	20,804	20,760	18,434	16,236	18,141	22,560	27,991	33,001
Falls	33,342	35,649	36,217	38,771	35,984	26,724	21,263	17,300	17,946	17,712	18,576
Fisher	2,708	12,596	11,009	13,563	12,932	11,023	7,865	6,344	5,891	4,842	4,344
Grimes	26,106	21,205	23,101	22,642	21,960	15,135	12,709	11,855	13,580	18,828	23,552
Hamilton	13,520	15,315	14,676	13,523	13,303	10,660	8,488	7,198	8,297	7,733	8,229
Haskell	2,637	16,249	14,193	16,669	14,905	13,736	11,174	8,512	7,725	6,820	6,093
Hill	41,355	46,760	43,332	43,036	38,355	31,282	23,650	22,596	25,024	27,146	32,321
Hood	9,146	10,008	8,759	6,779	6,674	5,287	5,443	6,368	17,714	28,981	41,100
Johnson	33,819	24,460	37,286	33,317	30,384	31,390	34,720	45,769	67,649	97,165	126,811
Jones	7,053	24,299	22,323	24,233	23,378	22,147	19,299	16,106	17,268	16,490	20,785
Kent	899	2,655	3,335	3,851	3,413	2,249	1,727	1,434	1,145	1,010	859
Knox	2,322	9,625	9,240	11,368	10,090	10,082	7,857	5,972	5,329	4,837	4,253
Lampasas	8,625	9,532	8,800	8,677	9,167	9,929	9,418	9,323	12,005	13,521	17,762
Lee	14,595	13,132	14,014	13,390	12,751	10,144	8,949	8,048	10,952	12,854	15,657
Limestone	32,573	34,621	33,283	39,497	33,781	25,251	20,413	18,100	20,224	20,946	22,051
McLennan	59,772	73,250	82,921	98,682	101,898	130,194	150,091	147,553	170,755	189,123	213,517
Milam	39,666	36,780	38,104	37,915	33,120	23,585	22,263	20,028	22,732	22,946	24,238
Nolan	2,611	11,999	10,868	19,323	17,309	19,808	18,963	16,220	17,359	16,594	15,802

Table A-1 continued

County	Historical Population¹										
	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000
Palo Pinto	12,291	19,506	23,431	17,576	18,456	17,154	20,516	28,962	24,062	25,055	27,026
Robertson	31,480	27,454	27,933	27,240	25,710	19,908	16,157	14,389	14,653	15,511	16,000
Shackelford	2,461	4,201	4,960	6,695	6,211	5,001	3,990	3,323	3,915	3,316	3,302
Somervell	3,498	3,931	3,563	3,016	3,071	2,542	2,577	2,793	4,154	5,360	6,809
Stephens	6,466	7,980	15,403	16,560	12,356	10,597	8,885	8,414	9,926	9,010	9,674
Stonewall	2,183	5,320	4,086	5,667	5,589	3,679	3,017	2,397	2,406	2,013	1,693
Taylor	10,499	26,293	24,081	41,023	44,147	63,370	101,078	97,853	110,932	119,655	126,551
Throckmorton	1,750	4,563	3,589	5,253	4,275	3,618	2,767	2,205	2,053	1,880	1,850
Washington	32,931	25,561	26,624	25,394	25,387	20,542	19,145	18,842	21,998	26,154	30,373
Williamson	38,072	42,228	42,934	44,146	41,698	38,853	35,044	37,305	76,521	139,551	211,474
Young	6,540	13,657	13,379	20,128	19,004	16,810	17,254	15,400	19,001	18,126	13,989
Region Total	680,093	802,012	849,801	871,571	833,387	821,013	855,217	895,682	1,130,823	1,350,811	1,621,961
% Change		17.9%	6.0%	2.6%	-4.4%	-1.5%	4.2%	4.7%	26.3%	19.5%	20.1%
Annual Growth Rate		1.7%	0.6%	0.3%	-0.4%	-0.1%	0.4%	0.5%	2.4%	1.8%	1.8%
State Total	3,048,710	3,896,542	4,663,228	5,824,715	6,414,824	7,711,194	9,579,677	11,196,730	14,229,191	16,986,510	20,851,820
% Change		27.8%	19.7%	24.9%	10.1%	20.2%	24.2%	16.9%	27.1%	19.4%	22.8%
Annual Growth Rate		2.5%	1.8%	2.2%	1.0%	1.9%	2.2%	1.6%	2.4%	1.8%	2.1%

¹ Historical population data through 1990 are from *The Texas Almanac, 1994-1995*.
2000 Data from U.S. Census Bureau

**Table A-2.
BRGWPA Historical Population by Subregion**

Sub-Region/ County	Historical Population¹										
	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000
Rolling Plains											
Bosque	17,390	19,013	18,032	15,750	15,761	11,836	10,809	10,966	13,401	15,125	17,204
Callahan	8,768	12,973	11,844	12,785	11,568	9,087	7,929	8,205	10,992	11,859	12,905
Comanche	23,009	27,186	25,748	18,430	19,245	15,516	11,865	11,898	12,617	13,381	14,026
Coryell	21,308	21,703	20,601	19,999	20,226	16,284	23,961	35,311	56,767	64,213	74,978
Eastland	17,971	23,421	58,505	34,156	30,345	23,942	19,526	18,092	19,480	18,488	18,297
Erath	29,966	32,095	28,385	20,804	20,760	18,434	16,236	18,141	22,560	27,991	33,001
Fisher	2,708	12,596	11,009	13,563	12,932	11,023	7,865	6,344	5,891	4,842	4,344
Hamilton	13,520	15,315	14,676	13,523	13,303	10,660	8,488	7,198	8,297	7,733	8,229
Haskell	2,637	16,249	14,193	16,669	14,905	13,736	11,174	8,512	7,725	6,820	6,093
Hood	9,146	10,008	8,759	6,779	6,674	5,287	5,443	6,368	17,714	28,981	41,100
Jones	7,053	24,299	22,323	24,233	23,378	22,147	19,299	16,106	17,268	16,490	20,785
Kent	899	2,655	3,335	3,851	3,413	2,249	1,727	1,434	1,145	1,010	859
Knox	2,322	9,625	9,240	11,368	10,090	10,082	7,857	5,972	5,329	4,837	4,253
Lampasas	8,625	9,532	8,800	8,677	9,167	9,929	9,418	9,323	12,005	13,521	17,762
Nolan	2,611	11,999	10,868	19,323	17,309	19,808	18,963	16,220	17,359	16,594	15,802
Palo Pinto	12,291	19,506	23,431	17,576	18,456	17,154	20,516	28,962	24,062	25,055	27,026
Shackelford	2,461	4,201	4,960	6,695	6,211	5,001	3,990	3,323	3,915	3,316	3,302
Somervell	3,498	3,931	3,563	3,016	3,071	2,542	2,577	2,793	4,154	5,360	6,809
Stephens	6,466	7,980	15,403	16,560	12,356	10,597	8,885	8,414	9,926	9,010	9,674
Stonewall	2,183	5,320	4,086	5,667	5,589	3,679	3,017	2,397	2,406	2,013	1,693
Taylor	10,499	26,293	24,081	41,023	44,147	63,370	101,078	97,853	110,932	119,655	126,555
Throckmorton	1,750	4,563	3,589	5,253	4,275	3,618	2,767	2,205	2,053	1,880	1,850
Young	6,540	13,657	13,379	20,128	19,004	16,810	17,254	15,400	19,001	18,126	13,989
Totals	213,621	334,120	358,810	355,828	342,185	322,791	340,644	341,437	404,999	436,300	480,536

Table A-2 continued

Sub-Region/ County	Historical Population ¹										
	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000
IH-35 Corridor											
Bell	45,535	49,186	46,412	50,030	44,863	73,824	94,097	124,483	157,889	191,088	237,974
Hill	41,355	46,760	43,332	43,036	38,355	31,282	23,650	22,596	25,024	27,146	32,321
Johnson	33,819	24,460	37,286	33,317	30,384	31,390	34,720	45,769	67,649	97,165	126,811
McLennan	59,772	73,250	82,921	98,682	101,898	130,194	150,091	147,553	170,755	189,123	213,517
Williamson	38,072	42,228	42,934	44,146	41,698	38,853	35,044	37,305	76,521	139,551	211,474
Totals	218,553	235,884	252,885	269,211	257,198	305,543	337,602	377,706	497,838	644,073	822,097
Lower Basin											
Brazos	18,859	18,919	21,975	21,835	26,977	38,390	44,895	57,978	93,588	121,862	152,415
Burleson	18,367	18,687	16,855	19,848	18,334	13,000	11,177	9,999	12,313	13,625	16,470
Falls	33,342	35,649	36,217	38,771	35,984	26,724	21,263	17,300	17,946	17,712	18,576
Grimes	26,106	21,205	23,101	22,642	21,960	15,135	12,709	11,855	13,580	18,828	23,552
Lee	14,595	13,132	14,014	13,390	12,751	10,144	8,949	8,048	10,952	12,854	15,657
Limestone	32,573	34,621	33,283	39,497	33,781	25,251	20,413	18,100	20,224	20,946	22,051
Milam	39,666	36,780	38,104	37,915	33,120	23,585	22,263	20,028	22,732	22,946	24,238
Robertson	31,480	27,454	27,933	27,240	25,710	19,908	16,157	14,389	14,653	15,511	16,000
Washington	32,931	25,561	26,624	25,394	25,387	20,542	19,145	18,842	21,998	26,154	30,373
Totals	247,919	232,008	238,106	246,532	234,004	192,679	176,971	176,539	227,986	270,438	319,332
¹ Historical population data through 1990 are from <i>The Texas Almanac, 1994-1995</i> . 2000 Data from U.S. Census Bureau											

**Table A-3.
Historical Use by Source**

Water Source	Year											
	1980	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Groundwater	270,270	280,840	265,376	277,433	267,477	322,364	327,902	327,079	276,395	308,179	316,614	356,557
Surface Water	274,999	300,680	290,079	296,935	314,028	321,134	320,409	353,071	320,318	329,578	303,830	406,990
Region Total	545,269	581,520	555,455	574,368	581,505	643,498	648,311	680,150	596,713	637,757	620,444	763,547

Table A-4.
Historical Groundwater Pumpage by Aquifer

Aquifer	Year											
	1980	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Brazos Alluvium	29,426	36,528	30,116	25,216	18,474	19,645	29,956	24,846	7,423	11,661	7,218	23,070
Carrizo-Wilcox	32,111	55,759	55,415	61,897	72,076	89,194	88,211	96,523	87,969	93,236	90,654	96,156
Dockum	2,067	2,071	1,820	1,432	2,409	2,385	1,798	2,861	1,899	1,838	1,963	4,884
Edwards-BFZ	9,428	12,314	10,928	12,996	12,534	13,911	14,764	16,255	18,026	16,352	16,264	34,372
Edwards-TP	1,607	1,486	1,325	739	903	511	597	568	274	221	251	303
Gulf Coast	3,326	4,870	4,656	4,765	4,977	5,448	5,335	6,168	5,932	6,157	6,129	7,251
Queen City	1,556	1,707	1,679	1,802	2,072	2,013	2,096	2,275	2,185	2,097	2,301	2,132
Seymour	94,996	60,795	56,501	49,555	35,923	71,043	72,122	70,786	51,641	69,188	84,397	101,710
Sparta	1,042	1,423	1,506	1,585	1,865	1,712	1,810	1,878	1,791	1,746	1,659	1,595
Trinity	80,601	92,655	86,952	101,213	103,163	103,551	99,318	93,127	88,055	94,028	88,476	90,180
Woodbine	1,635	1,024	1,154	1,339	1,381	1,413	1,390	1,591	1,330	1,364	1,372	1,363
Other-Undiff.	13,472	9,757	10,211	12,132	9,830	8,754	7,651	8,483	7,532	7,495	10,867	6,999
Region Total	271,267	280,389	262,263	274,671	265,607	319,580	325,048	325,361	274,057	305,383	311,551	370,015

Note: Groundwater pumpage is reported for entire counties within the Brazos G. No adjustments were made for partial counties.

Aquifer	Year											
	1980	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Carrizo-Wilcox	32,111	55,759	55,415	61,897	72,076	89,194	88,211	96,523	87,969	93,236	90,654	96,156
Trinity	80,601	92,655	86,952	101,213	103,163	103,551	99,318	93,127	88,055	94,028	88,476	90,180
Seymour	94,996	60,795	56,501	49,555	35,923	71,043	72,122	70,786	51,641	69,188	84,397	101,710
Brazos Alluvium	29,426	36,528	30,116	25,216	18,474	19,645	29,956	24,846	7,423	11,661	7,218	23,070
Edwards-BFZ	9,428	12,314	10,928	12,996	12,534	13,911	14,764	16,255	18,026	16,352	16,264	34,372
Other	24,705	22,338	22,351	23,794	23,437	22,236	20,677	23,824	20,943	20,918	24,542	24,527
Region Total	271,267	280,389	262,263	274,671	265,607	319,580	325,048	325,361	274,057	305,383	311,551	370,015

Table A-5.
BGRWPA Reservoirs¹
(Permit Capacity Greater than 2,500 acft)

Reservoir	Stream	County	Permitted Storage (acft)	Permitted Diversion (acft/yr)					Owner	Water Right Holders (Greater Than 1,000 acft)
				Municipal	Industrial	Irrigation	Other	Total		
Abilene	Elm Creek	Taylor	11,868	1,675	0	0	0	1,675	City of Abilene	City of Abilene
Alcoa Lake	Sandy Creek	Milam	15,650	0	14,000	0	0	14,000	Aluminum Co. of America	Aluminum Co. of America
Alvarado	Turkey Creek	Johnson	4,781	500	300	0	0	800	City of Alvarado	
Anson North	Thompson Creek	Jones	2,500	542	0	0	0	542	City of Anson	
Aquilla	Aquilla Creek	Hill	52,400	7,943	0	0	0	7,943	Brazos River Authority	Brazos River Authority
Belton	Leon River	Bell	469,600	147,961	0	0	0	147,961	U.S. Army Corps of Engineers	U.S. Army Corps of Engineers, Brazos River Authority, city of Temple
Brushy Creek ³	Brazos River	Falls	6,560	0	0	0	0	0	City of Marlin	
Camp Creek	Camp Creek	Robertson	8,400	0	0	0	0	0	Camp Creek Water Co.	
Cisco	Sandy Creek	Eastland	45,000	1,971	56	0	0	2,027	City of Cisco	City of Cisco
Cleburne	Nolan Creek	Nolan	25,600	5,760	0	240	0	6,000	City of Cleburne	City of Cleburne
Clyde	North Prong Pecan Creek	Callahan	5,748	1,000	0	0	0	1,000	City of Clyde	City of Clyde
Comanche Peak ²	Squaw Creek	Somervell	151,500	0	23,180	0	0	23,180	Texas Utilities Electric Co.	Texas Utilities Electric Co.
Daniel	Gonzales Creek	Stephens	11,400	2,100	0	0	0	2,100	City of Breckenridge	City of Breckenridge
Dansby Power Plant ²	Unnamed Trib. Brazos River	Brazos	15,227	0	55,708	0	0	55,708	City of Bryan	City of Bryan
Davis/Catherine	Unnamed Trib. Dutchman Creek	Knox	7,479	0	0	2,031	0	2,031	League Ranch	League Ranch
Fort Parker	Navasota River	Limestone	3,100	0	0	5	0	5	Texas Parks and Wildlife Dept.	
Fort Phantom Hill	Elm Creek	Jones	73,960	25,690	4,000	1,000	0	30,690	City of Abilene	City of Abilene
Georgetown	North Fork San Gabriel River	Williamson	37,100	13,610	0	0	0	13,610	Brazos River Authority	Brazos River Authority
Gibbons Creek ²	Gibbons Creek	Grimes	32,084	0	9,740	0	0	9,740	Texas Municipal Power Agency	Texas Municipal Power Agency
Graham/Eddleman	Flint Creek	Young	52,466	11,000	8,400	100	500	20,000	City of Graham	City of Graham
Granbury	Brazos River	Hood	155,000	64,712	0	555	0	65,267	Brazos River Authority	Brazos River Authority
Granger	San Gabriel River	Williamson	65,500	19,840	0	0	0	19,840	Brazos River Authority	Brazos River Authority
Hubbard Creek	Hubbard Creek	Stephens	317,750	46,800	1,200	2,000	6,000	56,000	West Central Texas MWD	West Central Texas MWD

Table A-5 continued

Reservoir	Stream	County	Permitted Storage (acft)	Permitted Diversion (acft/yr)					Owner	Water Right Holders (Greater Than 1,000 acft)
				Municipal	Industrial	Irrigation	Other	Total		
Kirby	Cedar Creek	Taylor	8,500	3,765	1,120	115	0	5,000	City of Abilene	City of Abilene
Lake Creek	Brazos River	McLennan	8,500	0	10,000	0	0	10,000	Texas Utilities Electric Co.	Texas Utilities Electric Co.
Leon	Leon River	Eastland	27,290	5,450	350	500	0	6,300	Eastland Co. WSD	Eastland Co. WSD
Limestone	Navasota River	Robertson	225,400	65,074	0	0	0	65,074	Brazos River Authority	Brazos River Authority
McCarty	Salt Prong	Shackelford	2,600	600	0	0	0	600	City of Albany	
Mexia	Navasota River	Limestone	9,600	2,887	65	0	0	2,952	Bistone MWSD	Bistone MWSD
Millers Creek Lake		Baylor	30,696	3,500	1,500	0		5,000	North Central Texas MWD	North Central Texas MWD
New Marlin ³	Brazos River	Falls	3,135	6,000	2,000	0	0	8,000	City of Marlin	City of Marlin
Palo Pinto	Palo Pinto Creek	Palo Pinto	44,124	12,500	6,000	0	0	18,500	Palo Pinto MWD	Palo Pinto MWD
Possum Kingdom	Brazos River	Palo Pinto	724,739	230,750				230,750	Brazos River Authority	Brazos River Authority
Proctor	Leon River	Comanche	59,400	19,658	0	0	45	19,703	Brazos River Authority	Brazos River Authority
Robinson	Brazos River	McLennan	8,037	13,100	0	0	0	13,100	City of Robinson	City of Robinson
Sandow Lignite Mine	Unnamed Trib. Brazos River	Milam	7,529	0	0	0	0	0	Aluminum Co. of America	Aluminum Co. of America
Somerville	Yegua Creek	Washington	160,110	48,000	0	0	0	48,000	U.S. Army Corps of Engineers	Brazos River Authority
Stamford	Paint Creek	Haskell	59,810	10,000	0	0	0	10,000	City of Stamford	City of Stamford
Stillhouse Hollow	Lampasas River	Bell	235,700	67,768	0	0	0	67,768	U.S. Army Corps of Engineers	Brazos River Authority
Sweetwater	Cottonwood Creek	Nolan	10,000	2,730	960	50	0	3,740	City of Sweetwater	City of Sweetwater
Tradinghouse	Brazos River	McLennan	37,800	0	27,000	0	0	27,000	Texas Utilities Electric Co.	Texas Utilities Electric Co.
Trammel	Sweetwater Creek	Nolan	2,500	2,000	0	0	0	2,000	City of Sweetwater	City of Sweetwater
Truscott Brine	Bluff Creek	Knox	107,000	0	0	0	0	0	Red River Authority of Texas	
Twin Oak ²	Duck Creek	Robertson	30,319	0	30,319	0	0	30,319	Texas Utilities Electric Co.	Texas Utilities Electric Co.
Unnamed Facility	Brazos River	McLennan	3,537	5,600	0	0	0	5,600	City of Waco	City of Waco
Waco	Bosque River	McLennan	192,062	78,970	0	900	0	79,870	U.S. Army Corps of Engineers	City of Waco
Whitney	Brazos River	Hill	50,000	8,336	0	0	0	8,336	Brazos River Authority	Brazos River Authority

¹ Reservoir information obtained from water rights listing provided by TCEQ

² Only a portion of the permitted diversion is consumptive. Of the total 118,947 acft/yr permitted for these facilities, 44,570 acft/yr is consumptive.

**Table A-6.
Permitted Surface Water Diversions**

County	Permitted Diversion ^{1, 2}					Total
	Municipal	Industrial	Irrigation	Mining	Other ³	
Bell	215,729	38,800	5,698	138	0	260,365
Bosque	2,611	5	9,411		0	12,027
Brazos		55,708	13,485		119	69,312
Burleson		420	8,040		1,000	9,460
Callahan	1,550		1,042		0	2,592
Comanche	19,858	11	13,299		0	33,168
Coryell			2,086		38	2,124
Eastland	8,871	556	2,513	1,607	0	13,547
Erath	80		5,853	30	25	5,988
Falls	6,224	2,000	9,532		0	17,756
Fisher		26	724	165	0	915
Grimes		15,850	2,193	200	0	18,243
Hamilton	614	3	3,330		45	3,992
Haskell	10,000		1,316		0	11,316
Hill	16,279		1,663		0	17,942
Hood	64,747		3,939		0	68,686
Johnson	6,980	300	907	125	0	8,312
Jones	29,532	4,007	7,420	383	0	41,342
Kent			554	5,900	0	6,454
Knox	34		2,233	235	0	2,502
Lampasas	4,642	48	2,370		0	7,060
Lee			182		0	182
Limestone	5,547	67	13		0	5,627
McLennan	98,225	37,074	7,360		0	142,659
Milam	2,792	32,212	8,844		0	43,848
Nolan	4,730	1,005	686		0	6,421
Palo Pinto	243,870	6,012	3,661	41	1,153	254,737
Robertson	65,074	30,777	15,668	685	488	112,692
Shackelford	711	50	158	63	0	982
Somervell	5,000	23,180	1,120		32	29,332
Stephens	58,100	97	1,178	218	0	59,593
Stonewall			8	867	0	875
Taylor	5,670	3,149	2,340		50	11,209
Throckmorton	660		9		0	669
Washington	48,000	20	2		0	48,022
Williamson	58,760	203	869	658	0	60,490
Young	11,250	8,509	1,304	600	0	21,663
Region Total	996,140	260,089	141,009	11,915	2,950	1,412,102
¹ Data obtained from the TCEQ water rights database, 2004. ² Diversion includes certificate of adjudication and permits. ³ Category Other includes hydroelectric, navigation, recreation and other uses as classified by the TCEQ						

**Table A-7.
Historical Use by County**

County	Year											
	1980	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Bell	31,507	35,866	31,598	34,676	36,813	37,368	38,235	43,202	41,540	42,791	46,131	49,886
Bosque	4,893	5,403	6,113	5,388	6,426	6,560	6,119	6,964	8,149	9,469	7,371	7,808
Brazos	29,300	41,264	35,801	37,054	39,815	39,415	44,844	48,408	36,075	40,297	39,388	39,097
Burleson	9,508	9,956	10,833	9,210	8,588	12,173	17,692	13,059	6,029	7,682	4,731	22,165
Callahan	3,608	3,396	3,488	4,012	3,728	3,802	3,702	4,100	3,520	4,196	3,104	3,378
Comanche	31,034	54,850	50,709	58,400	53,960	50,486	50,070	35,759	32,258	36,177	33,497	42,113
Coryell	11,898	11,202	10,472	11,761	12,747	13,335	13,211	15,114	12,591	13,606	14,084	18,044
Eastland	19,781	16,491	17,631	20,069	9,466	17,409	16,358	13,740	11,109	11,784	7,002	20,512
Erath	21,190	19,902	19,312	19,989	32,043	28,559	29,157	30,486	24,454	23,538	25,059	24,991
Falls	10,103	10,966	6,574	6,011	6,695	10,318	10,494	8,833	9,046	9,417	7,814	7,585
Fisher	5,075	4,630	3,613	2,695	3,825	3,971	3,934	4,449	5,154	5,601	5,592	4,358
Grimes	3,534	15,969	12,278	9,283	8,982	10,121	10,172	12,966	9,609	10,420	8,678	10,195
Hamilton	4,090	4,476	4,602	4,762	4,508	4,342	4,422	5,127	4,492	4,602	4,832	3,818
Haskell	43,140	24,172	24,974	24,862	10,828	36,244	34,427	34,614	28,633	38,679	42,109	52,851
Hill	5,648	5,286	5,223	5,272	6,512	6,613	6,684	7,639	7,081	7,442	7,664	6,553
Hood	8,513	15,605	13,444	11,417	14,662	13,567	13,879	16,577	14,434	14,033	16,334	12,864
Johnson	12,672	15,182	15,941	15,693	17,501	18,012	17,915	19,642	19,831	21,887	22,606	26,025
Jones	14,803	9,703	8,669	8,664	10,441	11,965	12,986	16,066	12,444	12,888	18,780	10,540
Kent	1,607	1,916	2,028	1,978	2,205	2,308	2,423	2,642	2,496	2,678	2,567	1,649
Knox	51,309	33,774	29,308	23,545	22,430	30,172	33,174	29,946	18,059	24,621	35,922	44,926
Lampasas	3,983	3,350	3,411	3,961	3,818	4,093	4,029	4,140	4,312	4,449	3,857	5,557
Lee	3,957	4,677	4,557	4,874	5,428	5,491	5,493	5,552	5,258	5,443	5,706	5,876

Table A-7 continued

County	Year											
	1980	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Limestone	4,800	9,766	22,966	24,293	25,403	26,795	24,113	22,866	24,384	23,521	23,397	27,494
McLennan	70,528	58,934	54,233	60,833	66,203	65,626	58,105	60,331	58,830	57,937	40,371	74,850
Milam	19,935	32,134	34,470	34,455	45,882	52,313	50,629	55,032	50,608	50,322	47,299	59,275
Nolan	9,719	7,389	7,991	7,672	7,290	7,515	6,650	9,973	8,016	8,293	6,672	10,170
Palo Pinto	8,749	7,067	7,179	8,605	8,431	7,958	7,778	7,562	7,740	9,560	8,635	8,302
Robertson	24,856	25,504	28,843	31,671	16,171	25,620	24,748	29,382	21,871	27,454	25,412	25,394
Shackelford	1,963	2,072	2,352	2,310	2,402	2,511	2,373	2,086	2,255	2,444	2,428	2,413
Somervell	1,578	11,424	6,328	6,541	9,701	6,690	5,832	8,147	5,597	6,072	6,106	20,101
Stephens	9,094	3,597	3,077	3,201	3,328	3,428	10,097	11,471	10,479	10,694	11,795	10,231
Stonewall	1,461	1,719	1,607	1,775	1,755	2,005	1,803	1,692	1,237	1,224	3,471	1,129
Taylor	32,040	31,573	24,463	27,695	29,171	28,171	26,368	33,059	33,255	30,323	22,875	43,122
Throckmorton	838	1,475	1,527	1,302	1,353	1,257	1,099	2,091	1,201	1,165	1,373	1,145
Washington	5,444	6,397	6,192	6,192	6,301	6,337	6,449	7,797	6,553	6,916	7,357	8,815
Williamson	16,471	27,458	26,504	27,287	30,384	34,573	36,671	42,509	41,277	41,087	43,658	44,125
Young	6,640	6,975	7,144	6,960	6,309	6,375	6,176	7,127	6,836	9,045	6,767	6,190
Region Total	545,269	581,520	555,455	574,368	581,505	643,498	648,311	680,150	596,713	637,757	620,444	763,547

**Table A-8.
Historical Water Use by Type**

Use Type	Year											
	1980	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Municipal	215,744	236,955	218,252	224,747	246,063	249,311	245,691	273,887	271,841	281,950	266,312	319,141
Manufacturing	21,124	32,240	36,622	40,654	51,711	58,187	52,313	55,647	52,304	57,013	50,313	56,993
Power	28,686	57,657	63,512	60,030	66,030	64,073	62,610	69,118	57,748	58,550	56,833	86,963
Mining	11,413	6,944	10,633	9,793	10,807	10,897	16,864	17,387	17,365	15,239	15,441	15,008
Irrigation	229,387	200,954	178,966	185,378	150,716	202,463	212,362	198,687	141,943	173,073	176,200	232,991
Livestock	38,915	46,770	47,470	53,766	56,178	58,567	58,471	65,424	55,512	51,932	55,345	52,451
Region Total	545,269	581,520	555,455	574,368	581,505	643,498	648,311	680,150	596,713	637,757	620,444	763,547

**Table A-9.
Historical Water Use by County, Source and Type**

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Power	Irrigation	Mining	Livestock		
Bell	G	2,265	268	0	558	145	95	3,331	6.7
	S	44,015	532	0	1,121	29	858	46,555	93.3
	Total	46,280	800	0	1,679	174	953	49,886	100.0
Bosque	G	2,623	794	521	73	276	524	4,811	61.6
	S	3	0	0	2,470	0	524	2,997	38.4
	Total	2,626	794	521	2,543	276	1,048	7,808	100.0
Brazos	G	30,336	244	342	5,660	25	413	37,020	94.7
	S	0	0	200	1,258	0	619	2,077	5.3
	Total	30,336	244	542	6,918	25	1,032	39,097	100.0
Burleson	G	2,325	150	0	14,845	29	569	17,918	80.8
	S	0	0	0	3,394	0	853	4,247	19.2
	Total	2,325	150	0	18,239	29	1,422	22,165	100.0
Callahan	G	820	0	0	600	81	98	1,599	47.3
	S	682	0	0	219	0	878	1,779	52.7
	Total	1,502	0	0	819	81	976	3,378	100.0
Comanche	G	901	2	0	13,515	80	851	15,349	36.4
	S	883	24	0	22,454	0	3,403	26,764	63.6
	Total	1,784	26	0	35,969	80	4,254	42,113	100.0
Coryell	G	208	0	0	0	100	670	978	5.4
	S	16,389	7	0	0	0	670	17,066	94.6
	Total	16,597	7	0	0	100	1,340	18,044	100.0

Table A-9 continued

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Power	Irrigation	Mining	Livestock		
Eastland	G	178	1	0	12,135	78	112	12,504	61.0
	S	2,825	35	0	4,139	1	1,008	8,008	39.0
	Total	3,003	36	0	16,274	79	1,120	20,512	100.0
Erath	G	4,219	42	0	10,261	0	4,660	19,182	76.8
	S	579	15	0	555	0	4,660	5,809	23.2
	Total	4,798	57	0	10,816	0	9,320	24,991	100.0
Falls	G	709	0	0	1,727	133	163	2,732	36.0
	S	3,186	2	0	201	0	1,464	4,853	64.0
	Total	3,895	2	0	1,928	133	1,627	7,585	100.0
Fisher	G	135	158	0	2,446	466	58	3,263	74.9
	S	554	0	0	13	2	526	1,095	25.1
	Total	689	158	0	2,459	468	584	4,358	100.0
Grimes	G	3,640	197	0	185	31	622	4,675	45.9
	S	0	0	4,405	56	127	932	5,520	54.1
	Total	3,640	197	4,405	241	158	1,554	10,195	100.0
Hamilton	G	690	2	0	62	0	196	950	24.9
	S	681	1	0	421	0	1,765	2,868	75.1
	Total	1,371	3	0	483	0	1,961	3,818	100.0
Haskell	G	162	0	0	50,820	101	98	51,181	96.8
	S	770	0	507	0	0	393	1,670	3.2
	Total	932	0	507	50,820	101	491	52,851	100.0

Table A-9 continued

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Power	Irrigation	Mining	Livestock		
Hill	G	1,807	13	0	43	118	140	2,121	32.4
	S	3,117	54	0	0	0	1,261	4,432	67.6
	Total	4,924	67	0	43	118	1,401	6,553	100.0
Hood	G	3,809	20	47	10	167	311	4,364	33.9
	S	2,433	0	2,526	3,230	0	311	8,500	66.1
	Total	6,242	20	2,573	3,240	167	622	12,864	100.0
Johnson	G	7,953	771	0	0	324	1,059	10,107	38.8
	S	13,638	1,221	0	0	0	1,059	15,918	61.2
	Total	21,591	1,992	0	0	324	2,118	26,025	100.0
Jones	G	13	0	0	2,588	290	79	2,970	28.2
	S	3,559	0	1,510	1,793	0	708	7,570	71.8
	Total	3,572	0	1,510	4,381	290	787	10,540	100.0
Kent	G	504	0	0	0	686	46	1,236	75.0
	S	0	0	0	0	0	413	413	25.0
	Total	504	0	0	0	686	459	1,649	100.0
Knox	G	151	0	0	43,001	15	104	43,271	96.3
	S	585	0	0	123	11	936	1,655	3.7
	Total	736	0	0	43,124	26	1,040	44,926	100.0
Lampasas	G	700	0	0	1	123	1,048	1,872	33.7
	S	2,360	108	0	169	0	1,048	3,685	66.3
	Total	3,060	108	0	170	123	2,096	5,557	100.0

Table A-9 continued

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Power	Irrigation	Mining	Livestock		
Lee	G	3,336	11	0	495	16	619	4,477	76.2
	S	1	0	0	470	0	928	1,399	23.8
	Total	3,337	11	0	965	16	1,547	5,876	100.0
Limestone	G	2,334	0	1,014	0	360	148	3,856	14.0
	S	1,211	39	21,051	0	0	1,337	23,638	86.0
	Total	3,545	39	22,065	0	360	1,485	27,494	100.0
McLennan	G	14,306	740	173	396	83	62	15,760	21.1
	S	29,791	2,064	24,239	2,423	16	557	59,090	78.9
	Total	44,097	2,804	24,412	2,819	99	619	74,850	100.0
Milam	G	2,761	31,968	0	779	8	712	36,228	61.1
	S	1,871	14,447	4,048	1,613	0	1,068	23,047	38.9
	Total	4,632	46,415	4,048	2,392	8	1,780	59,275	100.0
Nolan	G	782	80	0	4,894	277	46	6,079	59.8
	S	2,728	563	0	382	0	418	4,091	40.2
	Total	3,510	643	0	5,276	277	464	10,170	100.0
Palo Pinto	G	227	9	0	110	1	91	438	5.3
	S	4,816	14	1,378	837	1	818	7,864	94.7
	Total	5,043	23	1,378	947	2	909	8,302	100.0
Robertson	G	2,836	65	4,322	14,535	91	603	22,452	88.4
	S	0	0	0	2,037	0	905	2,942	11.6
	Total	2,836	65	4,322	16,572	91	1,508	25,394	100.0

Table A-9 continued

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Power	Irrigation	Mining	Livestock		
Shackelford	G	0	0	0	104	515	76	695	28.8
	S	934	0	0	91	9	684	1,718	71.2
	Total	934	0	0	195	524	760	2,413	100.0
Somervell	G	1,024	5	39	0	384	83	1,535	7.6
	S	0	0	18,000	475	8	83	18,566	92.4
	Total	1,024	5	18,039	475	392	166	20,101	100.0
Stephens	G	0	0	0	3	75	58	136	1.3
	S	1,532	6	0	799	7,240	518	10,095	98.7
	Total	1,532	6	0	802	7,315	576	10,231	100.0
Stonewall	G	207	0	0	329	14	47	597	52.9
	S	92	0	0	18	0	422	532	47.1
	Total	299	0	0	347	14	469	1,129	100.0
Taylor	G	359	6	0	134	242	131	872	2.0
	S	40,221	783	31	40	0	1,175	42,250	98.0
	Total	40,580	789	31	174	242	1,306	43,122	100.0
Throckmorton	G	0	0	0	0	40	75	115	10.0
	S	353	0	0	0	0	677	1,030	90.0
	Total	353	0	0	0	40	752	1,145	100.0
Washington	G	1,962	223	0	1,311	109	155	3,760	42.7
	S	3,084	111	0	413	48	1,399	5,055	57.3
	Total	5,046	334	0	1,724	157	1,554	8,815	100.0

Table A-9 continued

County	Water Source	Use Type						County Total	Percent of Total
		Municipal	Manufacturing	Power	Irrigation	Mining	Livestock		
Williamson	G	15,441	518	0	0	1,659	134	17,752	40.2
	S	24,216	653	0	80	215	1,209	26,373	59.8
	Total	39,657	1,171	0	80	1,874	1,343	44,125	100.0
Young	G	111	0	0	0	159	101	371	6.0
	S	2,198	27	2,610	77	0	907	5,819	94.0
	Total	2,309	27	2,610	77	159	1,008	6,190	100.0