

*Appendix J*

*Assessment of Water Supplies of Municipal Water Users  
Of the  
Llano Estacado Water Planning Region (Region O)*

In the Llano Estacado Water Planning Region (Region O), the only source of water available for municipal use by approximately 29 of the Region's 51 municipal water users is the Ogallala Aquifer which lies beneath the Region. In addition, the Ogallala Aquifer meets a part of the needs of 14 of the Region's municipal water users, while other aquifers, and surface water impoundments meet the needs of the remaining 8 municipal water users. During the development of the 2001 Regional Water Plan for the Llano Estacado Water Planning Region, an assessment was made of the water resources and water supplies of the individual municipalities of the Llano Estacado Water Planning Region (Region O) from the Ogallala Aquifer. The assessment was made as of the date of 1995, and included the following: (1) locations of existing well fields and sites of undeveloped water rights available to the individual municipal water user on maps showing saturated thicknesses of the Ogallala Aquifer, (2) estimates of the quantities of water recoverable from the sites (existing well fields and undeveloped sites with water rights), and (3) projections of water demand and supply for the individual municipal water user group. The purpose of the present assessment is to: (1) compute quantities of water used for the period 10 year period of 1995 through 2004, the most recent year for which data are available, (2) compute the quantity of water remaining at year 2005 from the quantity estimated to have been available in 1995, (3) compute water level changes in the immediate vicinity of each municipal water user, using water level measurements in observation wells near each municipality, (4) identify the number and capacities of new water wells that have been added to each municipal water user's water supply system, and (5) assess and compare supplies available to meet projected demands of the 2011 regional Water Plan. The latter, comparison of supplies available with projected municipal demands, provides information as to when new supplies will be needed and the quantities of supplies needed in order to allow formulation and evaluation of water management strategies to meet projected needs (shortages) of individual municipal water user groups. The Municipal WUGs are listed below in alphabetical order, with a tabular summary of water supply information following in Table J-1 through Table J-51.

## Municipal Water Users of the Llano Estacado Water Planning Region

No	Name	County	Basin	Source of Water
1	Abernathy	Hale & Lubbock	Brazos	Ogallala
2	Amherst	Lamb	Brazos	Ogallala
3	Anton	Hockley	Brazos	Ogallala
4	Bovina	Parmer	Brazos	Ogallala
5	Brownfield	Terry	Colorado	Ogallala & CRMWA
6	Crosbyton	Crosby	Brazos	White River Lake/MWA
7	Denver City	Yoakum	Colorado	Ogallala
8	Dimmitt	Castro	Brazos	Ogallala
9	Earth	Lamb	Brazos	Ogallala
10	Farwell	Parmer	Brazos	Ogallala
11	Floydada	Floyd	Brazos	Ogallala & Lake Mackenzie
12	Friona	Parmer	Red	Ogallala
13	Hale Center	Hale	Brazos	Ogallala
14	Happy	Swisher	Red	Santa Rosa/Dockum
15	Hart	Castro	Brazos	Ogallala
16	Hereford	Deaf Smith	Red	Ogallala & Dockum
17	Idalou	Lubbock	Brazos	Ogallala
18	Kress	Swisher	Brazos & Red	Ogallala
19	Lamesa	Dawson	Colorado	Ogallala & CRMWA
20	Levelland	Hockley	Brazos	Ogallala & CRMWA
21	Littlefield	Lamb	Brazos	Ogallala & Lubbock (Bailey Co.)
22	Lockney	Floyd	Brazos	Ogallala & Lake Mackenzie
23	Lorenzo	Crosby	Brazos	Ogallala
24	Lubbock	Lubbock	Brazos	Ogallala & CRMWA
25	Matador	Motley	Red	Seymour
26	Meadow	Terry	Colorado	Ogallala
27	Morton	Cochran	Brazos	Ogallala
28	Muleshoe	Bailey	Brazos	Santa Rosa & Ogallala
29	New Deal	Lubbock	Brazos	Ogallala & City of Lubbock
30	O'Donnell	Dawson & Lynn	Brazos	CRMWA
31	Olton	Lamb	Brazos	Ogallala
32	Perersburg	Hale	Brazos	Ogallala
33	Plains	Yoakum	Colorado	Ogallala
34	Plainview	Hale	Brazos	CRMWA & Ogallala
35	Post	Garza	Brazos	White River Lake & Slaton/CMWA
36	Ralls	Crosby	Brazos	White River Lake/MWA
37	Ransom Canyon	Lubbock	Brazos	City of Lubbock
38	Ropesville	Hockley	Brazos	Ogallala
39	Seagraves	Gaines	Colorado	Ogallala
40	Seminole	Gaines	Colorado	Ogallala
41	Shallowater	Lubbock	Brazos	Ogallala & Lubbock(Bailey Co.)
42	Silverton	Briscoe	Red	Lake Mackenzie & Ogallala
43	Slaton	Lubbock	Brazos	CRMWA & Ogallala
44	Smyer	Hockley	Brazos	Ogallala
45	Spur	Dickens	Brazos	White River Lake/MWA
46	Sudan	Lamb	Brazos	Ogallala
47	Sundown	Hockley	Colorado	Ogallala
48	Tahoka	Lynn	Brazos	CRMWA & Ogallala
49	Tulia	Swisher	Red	Lake Mackenzie & Dockum & Ogallala
50	Wilson	Lynn	Brazos	Ogallala
51	Wolfforth	Lubbock	Brazos	Ogallala

Table J-1: City of Abernathy Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>								
	Hale	Brazos	486	508	526	531	525	514
	Lubbock	Brazos	171	182	188	186	190	186
<b>Total</b>			657	690	714	717	715	700
<b>Projected Municipal Water Supply</b>								
	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			80 -- 140 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			3.38 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.34 feet		1966	289	250	340
					1975	410	420	650
Quantity of Water in Storage in 1995: HPUWCD analysis.			9,737 acft		1976	415	600	600
Quantity of Water Used 1995-2004: Reported to TWDB.			5,599 acft		1978	351	625	625
Quantity of Water Remaining in 2005.			4,137 acft		2002	330	530	530
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			657	690	714	717	715	700
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			657	193	174	157	141	127
New Well # 1*** Implemented	2011	2002		193	174	157	141	127
<b>Projected Total Municipal Water Supply</b>			657	386	348	314	282	254
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	304	366	403	433	446
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			50	48	43	32	28	27
<b>New Water Supplies Needed (acft/yr)</b>								
Well # 2 ****	2015			428	385	346	312	280
Well # 3 ****	2015			202	182	164	147	132
Well # 4 ****	2025				202	182	164	147
Well # 5 ****	2042						196	176
* Texas Commission on Environmental Quality; Water System Data Sheets, 2006.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Implemented from 2006 Regional Water Plan.								
**** Needed for 2011 Regional Water Plan.								
<sup>1</sup> Value represents total municipal need after implementation of Well #1.								

Table J-2: City of Amherst Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lamb	Brazos	168	176	182	185	183	181
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			4.58 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.91 feet		1956	200	20	300
					1989	220	100	300
Quantity of Water in Storage in 1995: HPUWCD analysis.			3,721 acft		1999	230	25	200
Quantity of Water Used 1995-2004: Reported to TWDB.			1,534 acft		1999	200	90	300
Quantity of Water Remaining in 2005.			2,187 acft		2002	195	25	150
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			168	176	182	185	183	181
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			168	196	176	158	143	128
New Well # 1*** Implemented	2011	2002		196	176	158	143	128
<b>Projected Total Municipal Water Supply</b>			168	391	352	317	285	257
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			7	5	2	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Well #2 ****	2025				202	182	164	147
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Implemented from 2006 Regional Water Plan.								
**** Needed for 2011 Regional Water Plan.								
<sup>1</sup> Value represents total municipal need after implementation of Well #1.								

Table J-3: City of Anton Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>								
	Hockley	Brazos	263	270	272	268	256	243
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			20 -- 40 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			1.44 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.14 feet		NA	140	200	200
					1953	110	235	235
Quantity of Water in Storage in 1995: HPUWCD analysis.			1,621 acft		1961	160	190	190
Quantity of Water Used 1995-2004: Reported to TWDB.			3,226 acft		1971	139	150	150
Quantity of Water Remaining in 2005.			NA acft		1974	150	250	250
					1984	148	200	200
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			263	270	272	268	256	243
<b>Projected Municipal Water Supply</b>								
Existing Municipal Water Supply			0	0	0	0	0	0
<b>Projected Total Municipal Water Supply</b>			0	0	0	0	0	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		263	270	272	268	256	243
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			14	11	6	2	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
	Well #1***	2006	204	184	165	149	134	120
	Well #2 ***	2006	204	184	165	149	134	120
	Well #3 ***	2015		202	182	164	147	132
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-4: City of Bovina Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>								
	Parmer	Brazos	321	334	335	330	317	300
<b>Projected Municipal Water Supply</b>	<b>Ogallala</b>	<b>Aquifer</b>						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			60 -- 80 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			14.96 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			1.49 feet		1966	358	180	265
					1982	340	200	200
Quantity of Water in Storage in 1995: HPUWCD analysis.			6,110 acft		1982	350	200	0
Quantity of Water Used 1995-2004: Reported to TWDB.			3,226 acft		2000	350	125	0
Quantity of Water Remaining in 2005.			2,884 acft		2000	350	125	0
					2004	330	180	90
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			321	334	335	330	317	300
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			321	334	335	330	317	300
<b>Projected Total Municipal Water Supply</b>			321	334	335	330	317	300
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
	Well #1***	2005 revise	202	182	164	147	132	118
	Well #2 ***	2005 cost	202	182	164	147	132	118
	Well #3 ***	2015 schedule			202	182	164	147
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
<sup>1</sup> Value represents total municipal need.								
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Table J-5: City of Brownfield Water Supply and Aquifer Information									
	Location		Years						
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	
<b>Projected Municipal Water Demand</b>									
	Terry	Colorado	2,747	2,905	3,047	3,181	3,185	3,167	
<b>Projected Municipal Water Supply</b>									
	Ogallala	Aquifer							
	CRMWA								
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells * continued</b>				
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>	
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			10.04 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>	
Average Annual Water Level Decline.			1.00 feet		1953	140	350	350	
					1955	152	225	225	
Quantity of Water in Storage in 1995: HPUWCD analysis.			28,387 acft		1957	141	300	300	
Quantity of Water Used 1995-2004: Reported to TWDB.			19,499 acft		1957	163	475	475	
Quantity of Water Remaining in 2005.			8,888 acft		1960	170	325	325	
					1961	165	350	350	
<b>Existing Wells *</b>					1961	165	450	450	
	<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>	1963	150	290	290	
	<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>	1964	175	155	155	
	1945	157	400	400	1964	170	270	270	
	1947	151	300	300	1964	150	250	250	
	1951	145	200	200					
	<b>Date</b>	<b>Date</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
	<b>Needed</b>	<b>Added</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	
<b>Projected Municipal Water Demand</b>			2,747	2,905	3,047	3,181	3,185	3,167	
<b>Projected Municipal Water Supply</b>									
<b>Existing Municipal Water Supply</b>			2,816	2,790	2,767	2,746	2,727	2,710	
<b>Projected Total Municipal Water Supply</b>			2,816	2,790	2,767	2,746	2,727	2,710	
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>			D-S	0	0	280	435	458	457
<b>Water Management Strategies</b>									
<b>Water Conservation Water Management Strategy</b>			211	448	687	802	793	788	
<b>New Water Supplies Needed (acft/yr)</b>									
Increase supplies from CRMWA ***									
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.									
** The Cross Section, High Plains Underground Water Conservation District, April 2006.									
*** Needed for 2011 Regional Water Plan.									
<sup>1</sup> Value represents total municipal need.									

Table J-6: City of Crosbyton Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Crosby	Brazos	369	386	394	402	400	394
<b>Projected Municipal Water Supply</b>	Ogallala Aquifer White River MWD							
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			140--180 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			NA feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			NA feet		Source: White River MWD.			
Quantity of Water in Storage in 1995: HPUWCD analysis.			19,458 acft					
Quantity of Water Used 1995-2004: Reported to TWDB.			3,412 acft					
Quantity of Water Remaining in 2005.			16,046 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			369	386	394	402	400	394
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			439	439	439	439	439	58
<b>Projected Total Municipal Water Supply</b>			439	439	439	439	439	58
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	336
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Local Groundwater Development within White River MWD ***								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
<sup>1</sup> Value represents total municipal need.								

Table J-7: City of Denver City Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Yoakum	Colorado	1,043	1,126	1,172	1,220	1,181	1,141
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			NA feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			NA feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			NA feet		1951	250	230	230
					1958	222	425	850
Quantity of Water in Storage in 1995: HPUWCD analysis.			30,235 acft		1975	225	400	400
Quantity of Water Used 1995-2004: Reported to TWDB.			9,304 acft		1980	260	345	635
Quantity of Water Remaining in 2005.			20,931 acft		1980	261	150	600
					1983	251	680	800
					1984	240	535	535
					1984	253	250	250
					1984	187	450	450
					1985	240	325	325
					2004	230	225	225
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			1,043	1,126	1,172	1,220	1,181	1,141
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			1,043	1,126	0	0	0	0
New Well # 1*** Implemented	2021	2004			193	174	157	141
<b>Projected Total Municipal Water Supply</b>			1,043	1,126	193	174	157	141
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	979	1,046	1,024	1,000
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			77	169	179	171	160	155
<b>New Water Supplies Needed (acft/yr)</b>								
Well #2 ****	2023				419	377	339	305
Well #3 ****	2025				428	385	346	312
Well #4 ****	2027				437	393	354	318
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Implemented from 2001 Regional Water Plan.								
**** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need after implementation of Well #1.								

Table J-8: City of Dimmitt Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Castro	Brazos	1,041	1,103	1,137	1,159	1,150	1,130
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells * continued</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			100--160 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			41.45 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			4.15 feet		1967	410	150	120
					1970	396	296	290
Quantity of Water in Storage in 1995: HPUWCD analysis.			32,249 acft		1970	400	150	280
Quantity of Water Used 1995-2004: Reported to TWDB.			9,943 acft		1972	398	425	425
Quantity of Water Remaining in 2005.			22,306 acft		1973	406	200	290
					1974	412	150	140
					1974	402	200	120
<b>Existing Wells *</b>					1977	372	350	480
	<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>	1977	376	350	420
	<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>	1977	374	350	480
	1955	413	200	140	1979	376	475	475
	1957	427	300	500	1994	354	450	450
	1957	384	425	425	2005	380	350	500
	1957	427	300	300				
	<b>Date</b>	<b>Date</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
	<b>Needed</b>	<b>Added</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>
<b>Projected Municipal Water Demand</b>			1,041	1,103	1,137	1,159	1,150	1,130
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			1,041	1,103	0	0	0	0
New Well # 1*** Implemented	2017	2005		437	393	354	318	286
<b>Projected Total Municipal Water Supply</b>			1,041	1,540	393	354	318	286
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	744	805	832	844
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			75	110	97	81	75	74
<b>New Water Supplies Needed (acft/yr)</b>								
Well #2 ****		2019		446	401	361	325	292
Well #3 ****		2021			410	369	332	299
Well #4 ****		2042					414	373
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Implemented from 2001 Regional Water Plan.								
**** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need after implementation of Well #1.								

Table J-9: City of Earth Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lamb	Brazos	257	268	277	283	280	276
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			60 -- 80 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			20.14 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			2.01 feet		NA	220	330	550
					1966	250	500	710
Quantity of Water in Storage in 1995: HPUWCD analysis.			9,766 acft		1986	261	300	350
Quantity of Water Used 1995-2004: Reported to TWDB.			2,686 acft					
Quantity of Water Remaining in 2005.			7,080 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			257	268	277	283	280	276
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			257	268	277	0	0	0
<b>Projected Total Municipal Water Supply</b>			257	268	277	0	0	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	283	280	276
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			20	28	25	21	20	17
<b>New Water Supplies Needed (acft/yr)</b>								
	Well #1***	2031				193	174	157
	Well #2***	2034				200	180	162
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-10: City of Farwell Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Parmer	Brazos	388	405	410	408	393	371
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			80--120 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			34.73 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			3.47 feet		1964	390	70	500
					1972	365	70	250
Quantity of Water in Storage in 1995: HPUWCD analysis.			8,640 acft		1980	392	90	490
Quantity of Water Used 1995-2004: Reported to TWDB.			3,322 acft		1996	385	150	250
Quantity of Water Remaining in 2005.			5,318 acft		1996	380	150	250
					2000	372	200	275
					2002	394	250	NA
					2002	403	250	NA
					2002	412	250	NA
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			388	405	410	408	393	371
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>		?????	388	0	0	0	0	0
New Well # 1*** Implemented	2015	2002		202	182	164	147	132
New Well # 2*** Implemented	2015	2002		202	182	164	147	132
<b>Projected Total Municipal Water Supply</b>			388	404	363	327	294	265
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	1	47	81	99	106
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			33	64	94	101	97	91
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Implemented from 2001 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need after implementation of Wells #1 and #2.								

Table J-11: City of Floydada Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Floyd	Brazos	680	696	693	685	657	623
<b>Projected Municipal Water Supply</b>	Ogallala Aquifer Lake Mackenzie							
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			80--100 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			5.92 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.59 feet		NA	415	700	626
					1947	320	100	350
Quantity of Water in Storage in 1995: HPUWCD analysis.			41,431 acft		1954	320	200	180
Quantity of Water Used 1995-2004: Reported to TWDB.			5,496 acft		1962	302	300	348
Quantity of Water Remaining in 2005.			35,935 acft		1962	302	270	295
					1966	304	200	233
					1966	312	170	295
					1998	416	364	364
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			680	696	693	685	657	623
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			680	696	693	685	657	623
<b>Projected Total Municipal Water Supply</b>			680	696	693	685	657	623
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>			0	0	0	0	0	0
Ogallala and Lake Mackenzie ***								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-12: City of Friona Water Supply and Aquifer Information									
	Location		Years						
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	
<b>Projected Municipal Water Demand</b>	Parmer	Red	835	872	879	870	838	791	
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer							
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells * continued</b>				
Saturated Thickness -- 1995: HPUWCD analysis.			180--220 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>	
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			8.44 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>	
Average Annual Water Level Decline.			0.84 feet		1959	218	110	110	
					1964	220	105	105	
Quantity of Water in Storage in 1995: HPUWCD analysis.			26,003 acft		1966	220	180	180	
Quantity of Water Used 1995-2004: Reported to TWDB.			8,036 acft		1972	499	204	204	
Quantity of Water Remaining in 2005.			17,967 acft		1973	220	150	150	
					1980	220	124	124	
					1994	497	300	300	
					1996	507	200	200	
					1996	490	200	200	
					2001	321	90	300	
					2004	364	100	NA	
<b>Existing Wells *</b>									
	<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>					
	<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>					
	NA	501	300	300					
	NA	501	300	300					
	1953	222	100	100					
	<b>Date</b>	<b>Date</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>	
	<b>Needed</b>	<b>Added</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	
<b>Projected Municipal Water Demand</b>			835	872	879	870	838	791	
<b>Projected Municipal Water Supply</b>									
<b>Existing Municipal Water Supply</b>			835	872	0	0	0	0	
New Well # 1*** Implemented		2010	2001	121	108	98	88	79	71
New Well # 2*** Implemented		2018	2004		441	397	357	321	289
<b>Projected Total Municipal Water Supply</b>			956	1,421	495	445	401	360	
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	384	425	437	431	
<b>Water Management Strategies</b>									
<b>Water Conservation Water Management Strategy</b>			46	34	20	5	0	0	
<b>New Water Supplies Needed (acft/yr)</b>									
Well #3****		2023			419	377	339	305	
Well #4****		2023			419	377	339	305	
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.									
** The Cross Section, High Plains Underground Water Conservation District, April 2006.									
*** Implemented from 2001 Regional Water Plan.									
**** Needed for 2011 Regional Water Plan.									
NA means not available.									
<sup>1</sup> Value represents total municipal need after implementation of Wells #1 and #2.									

Table J-13: City of Hale Center Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Hale	Brazos	470	493	509	513	507	498
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			120--160 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			12.37 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			1.24 feet		NA	330	150	NA
					1976	307	80	NA
Quantity of Water in Storage in 1995: HPUWCD analysis.			15,860 acft		1988	330	120	NA
Quantity of Water Used 1995-2004: Reported to TWDB.			4,122 acft		1988	320	140	NA
Quantity of Water Remaining in 2005.			11,738 acft		1988	312	85	NA
					1988	315	125	NA
					2001	325	123	123
					2003	330	215	200
					2003	325	200	200
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			470	493	509	513	507	498
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			470	493	0	0	0	0
New Well # 1*** Implemented	2021	2001			410	369	332	299
New Well # 2*** Implemented	2023	2003			198	178	160	144
New Well # 3*** Implemented	2031	2003				193	174	157
<b>Projected Total Municipal Water Supply</b>			470	493	607	740	666	599
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Implemented from 2001 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need after implementation of Wells #1, #2, and #3.								

Table J-14: City of Happy Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Swisher	Red	109	110	111	110	108	103
<b>Projected Municipal Water Supply</b>	Santa Rosa/Dockum Aquifer							
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			NA	feet	<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			NA	feet	1971	803	0	400
					1978	830	0	450
Quantity of Water in Storage in 1995: HPUWCD analysis.			NA	acft				
Quantity of Water Used 1995-2004: Reported to TWDB.			978	acft				
Quantity of Water Remaining in 2005.			NA	acft				
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			109	110	111	110	108	103
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			109	110	111	110	108	103
<b>Projected Total Municipal Water Supply</b>			109	110	111	110	108	103
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
	Well #1***	?????						
	Well #2***	Santa						
	Well #3***	Rosa ???						
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-15: City of Hart Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Castro	Brazos	238	251	258	262	260	256
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			160--200 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			41.29 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			4.13 feet		1949	350	200	650
					2002	415	530	708
Quantity of Water in Storage in 1995: HPUWCD analysis.			11,416 acft					
Quantity of Water Used 1995-2004: Reported to TWDB.			2,109 acft					
Quantity of Water Remaining in 2005.			9,307 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			238	251	258	262	260	256
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			238	251	258	262	0	0
New Well # 1*** Implemented	2041	2002	193	193	193	193	193	174
<b>Projected Total Municipal Water Supply</b>			431	444	451	455	193	174
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	67	82
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Well #2 ****	2043						198	178
* Texas Commission on Environmental Quality; Water System Data Sheets, 2006.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Implemented from 2001 Regional Water Plan.								
**** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need after implementation of Well #1.								

Table J-16: City of Hereford Water Supply and Aquifer Information										
	Location		Years							
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)		
<b>Projected Municipal Water Demand</b>	Deaf Smith	Red	3,634	3,694	3,751	3,788	3,801	3,813		
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer								
	Santa Rosa	Dockum Aquifer								
Aquifer Data in Vicinity of Wells			Existing Wells * continued							
Saturated Thickness -- 1995: HPUWCD analysis.			140--180 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>		
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			0.72 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>		
Average Annual Water Level Decline.			0.07 feet		1966	346	180	346		
Quantity of Water in Storage in 1995: HPUWCD analysis.			NA acft		1967	350	175	550		
Quantity of Water Used 1995-2004: Reported to TWDB.			32,792 acft		1969	390	100	390		
Quantity of Water Remaining in 2005.			NA acft		1969	385	70	385		
					1969	385	130	385		
					1976	397	190	250		
Existing Wells *						1976	357	80	357	
Date	Depths	Tested	Rated			1976	365	70	365	
Drilled	feet	GPM	GPM			1979	412	135	412	
0	820	700	820			1979	452	185	452	
1940	225	80	225			1979	467	240	467	
1953	204	105	225			1986	800	510	800	
1956	320	130	320	Dockum			1989	462	85	462
1956	310	80	320			1990	800	590	800	
1956	287	210	210	Dockum			1994	880	580	880
1956	300	95	320	Dockum			1994	348	60	345
1961	282	440	280			1995	328	115	315	
1962	305	85	310			1995	854	550	815	
1964	360	85	360	Dockum			1995	880	550	810
1964	310	85	310	Dockum			2004	359	170	NA
1964	270	135	270			2004	480	250	NA	
1965	340	150	340			2004	432	220	NA	
1966	350	185	550			2004	424	180	NA	
1966	954	560	750							
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)		
<b>Projected Municipal Water Demand</b>			3,634	3,694	3,751	3,788	3,801	3,813		
<b>Projected Municipal Water Supply</b>										
Existing Municipal Water Supply			3,994	3,983	7,502	7,576	7,602	7,602		
<b>Projected Total Municipal Water Supply</b>			3,994	3,983	7,502	7,576	7,602	7,602		
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0		
<b>Water Management Strategies</b>										
Water Conservation Water Management Strategy			302	572	649	610	596	598		
<b>New Water Supplies Needed (acft/yr)</b>										
* Texas Commission on Environmental Quality; Water System Data Sheets, 2006.										
** The Cross Section, High Plains Underground Water Conservation District, April 2006.										
*** Needed for 2011 Regional Water Plan.										
NA means not available.										
<sup>1</sup> Value represents total municipal need.										

Table J-17: City of Idalou Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lubbock	Brazos	289	288	281	274	273	272
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			80--120 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			10.18 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			1.01 feet		None Listed			
Quantity of Water in Storage in 1995: HPUWCD analysis.			9,473 acft					
Quantity of Water Used 1995-2004: Reported to TWDB.			3,642 acft					
Quantity of Water Remaining in 2005.			5,831 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			289	288	281	274	273	272
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			289	288	281	0	0	0
<b>Projected Total Municipal Water Supply</b>			289	288	281	0	0	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	274	273	272
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***	2031					410	369	332
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-18: City of Kress Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>								
	Swisher	Brazos	22	22	22	22	21	20
	Swisher	Red	82	82	83	81	79	76
<b>Total</b>			104	104	105	103	100	96
<b>Projected Municipal Water Supply</b>								
	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			60 -- 80 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			0.00 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.00 feet		1972	345	125	300
					1983	305	275	300
Quantity of Water in Storage in 1995: HPUWCD analysis.			846 acft		1997	302	250	275
Quantity of Water Used 1995-2004: Reported to TWDB.			932 acft		2006	270	270	165
Quantity of Water Remaining in 2005.			0 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			104	104	105	103	100	96
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			0	0	0	0	0	0
	New Well # 1*** Implemented	2006	2006	204	184	165	149	134
<b>Projected Total Municipal Water Supply</b>			204	184	165	149	134	120
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Implemented from 2006 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need after implementation of Well #1.								

Table J-19: City of Lamesa Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Dawson	Colorado	2,540	2,573	2,602	2,603	2,529	2,433
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
	CRMWA							
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			50--120 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: MESA WCD measurements.*			1.51 feet		Drilled	feet	GPM	GPM
Average Annual Water Level Decline.			0.15 feet		0	174	80	350
					0	190	190	350
Quantity of Water in Storage in 1995: HPUWCD analysis.			68,182 acft		0	189	400	520
Quantity of Water Used 1995-2004: Reported to TWDB.			22,764 acft		1957	176	310	350
Quantity of Water Remaining in 2005.			45,418 acft		1957	209	170	250
					1957	181	40	300
					1957	193	220	250
					1957	182	210	350
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>			2,540	2,573	2,602	2,603	2,529	2,433
<b>Projected Municipal Water Supply</b>								
Existing Municipal Water Supply			3,093	3,036	2,985	2,939	2,698	2,661
<b>Projected Total Municipal Water Supply</b>			3,093	3,036	2,985	2,939	2,698	2,661
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			212	400	501	471	448	431
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** Mesa Underground Water Conservation District.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								
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Table J-21: City of Littlefield Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lamb	Brazos	1,530	1,602	1,660	1,694	1,676	1,655
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>			<b>Existing Wells *</b>					
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			1.34 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.13 feet		1964	297	350	580
					1964	305	520	580
Quantity of Water in Storage in 1995: HPUWCD analysis.			220,422 acft		1964	298	300	500
Quantity of Water Used 1995-2004: Reported to TWDB.			15,110 acft		1978	307	475	650
Quantity of Water Remaining in 2005.			205,312 acft		1984	323	300	550
					1985	306	490	550
					2002	315	425	500
					2004	309	340	400
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			1,530	1,602	1,660	1,694	1,676	1,655
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			1,530	1,602	1,660	1,694	1,676	1,655
New Well # 1*** Implemented	2010	2002	450	405	365	328	295	266
New Well # 2*** Implemented	2010	2004	450	405	365	328	295	266
<b>Projected Total Municipal Water Supply</b>			2,430	2,412	2,389	2,350	2,266	2,186
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			118	196	181	161	151	149
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Implemented from 2001 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need after implementation of Wells #1 and #2.								

Table J-22: City of Lockney Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Floyd	Brazos	242	244	240	234	224	212
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			40--120 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			10.97 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			1.10 feet		1959	339	100	100
					1972	390	300	120
Quantity of Water in Storage in 1995: HPUWCD analysis.			5,365 acft		1976	374	180	180
Quantity of Water Used 1995-2004: Reported to TWDB.			2,806 acft					
Quantity of Water Remaining in 2005.			2,559 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			242	244	240	234	224	212
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			242	244	0	0	0	0
<b>Projected Total Municipal Water Supply</b>			242	244	0	0	0	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	240	234	224	212
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
	Well #1***	2021			410	369	332	299
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								
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Table J-23: City of Lorenzo Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Crosby	Brazos	275	288	296	302	301	296
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			140--160 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			9.54 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.95 feet		1964	349	330	NA
					1965	350	165	NA
Quantity of Water in Storage in 1995: HPUWCD analysis.			15,322 acft		1972	355	500	NA
Quantity of Water Used 1995-2004: Reported to TWDB.			2,235 acft		1993	343	185	NA
Quantity of Water Remaining in 2005.			13,087 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			275	288	296	302	301	296
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			275	288	259	233	209	188
<b>Projected Total Municipal Water Supply</b>			275	288	259	233	209	188
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	37	69	92	108
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***	2011				206	185	167	150
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								
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Table J-24: City of Lubbock Water Supply and Aquifer Information								
Updated 10/21/2009	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lubbock	Brazos	49,822	51,587	52,416	52,600	53,040	54,305
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer and CRMWA						
<b>Aquifer Data in Vicinity of Wells</b>								
Saturated Thickness -- 1995: HPUWCD analysis.			NA feet					
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			NA feet					
Average Annual Water Level Decline.			NA feet					
Quantity of Water in Storage in 1995: HPUWCD analysis.			NA acft					
Quantity of Water Used 1995-2004: Reported to TWDB.			412,046 acft					
Quantity of Water Remaining in 2005.			NA acft					
<b>Existing Wells *</b>								
<b>Date Drilled</b>	<b>Depths feet</b>	<b>Tested GPM</b>	<b>Rated GPM</b>					
145 Wells drilled between 1938 and 1986								
Depth Range	101- 267							
Average Depth	209							
Tested Range GPM		52 -- 1,000						
Average Tested GPM		279						
Rated Range GPM		100--1,000						
Average Rated GPM			300					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			49,822	51,587	52,416	52,600	53,040	54,305
<b>Projected Municipal Water Supply</b>			42,000	42,000	40,000	38,000	35,000	35,000
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		7,822	9,587	12,416	14,600	18,040	19,305
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			4,132	7,662	7,112	6,441	6,256	6,405
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***								
Well #2 ***								
Well #3 ***								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-25: City of Matador Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Motley	Red	234	224	207	187	174	166
<b>Projected Municipal Water Supply</b>	Seymour	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006.**			NA	feet	<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			NA	feet	1976	112	430	400
					1976	106	360	400
Quantity of Water in Storage in 1995: HPUWCD analysis.			NA	acft				
Quantity of Water Used 1995-2004: Reported to TWDB.			2,057	acft				
Quantity of Water Remaining in 2005.			NA	acft				
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			234	224	207	187	174	166
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			234	224	207	187	174	166
<b>Projected Total Municipal Water Supply</b>			234	224	207	187	174	166
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			20	37	49	57	63	62
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** Not Available.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-26: City of Meadow Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Terry	Colorado	73	75	78	80	79	79
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006.**			NA	feet	<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			NA	feet	1936	140	50	50
					1951	151	100	100
Quantity of Water in Storage in 1995: HPUWCD analysis.			9,891	acft	1986	150	140	140
Quantity of Water Used 1995-2004: Reported to TWDB.			1,094	acft				
Quantity of Water Remaining in 2005.			8,797	acft				
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			73	75	78	80	79	79
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			73	75	78	80	79	79
<b>Projected Total Municipal Water Supply</b>			73	75	78	80	79	79
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** Not Available.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-27: City of Morton Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Cochran	Brazos	535	560	565	547	521	496
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 80 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			6.72 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.67 feet		0	210	300	300
					1941	260	225	320
Quantity of Water in Storage in 1995: HPUWCD analysis.			11,264 acft		1946	261	320	320
Quantity of Water Used 1995-2004: Reported to TWDB.			4,916 acft		1989	226	325	525
Quantity of Water Remaining in 2005.			6,348 acft		1995	238	175	175
					1996	206	352	500
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			535	560	565	547	521	496
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			535	0	0	0	0	0
<b>Projected Total Municipal Water Supply</b>			535	0	0	0	0	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	560	565	547	521	496
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			41	56	48	38	34	32
<b>New Water Supplies Needed (acft/yr)</b>								
	Well #1***	2015		428	385	346	312	280
	Well #2 ***	2015		428	385	346	312	280
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								
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Table J-29: City of New Deal Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lubbock	Brazos	149	165	173	173	178	173
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			20--100 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			4.87 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.49 feet		1990	314	50	50
					1990	312	50	130
Quantity of Water in Storage in 1995: HPUWCD analysis.			1,781 acft		1991	320	50	140
Quantity of Water Used 1995-2004: Reported to TWDB.			1,259 acft		1995	322	185	200
Quantity of Water Remaining in 2005.			522 acft		1995	319	100	125
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			149	165	173	173	173	173
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			153	153	153	153	153	153
<b>Projected Total Municipal Water Supply</b>			153	153	153	153	153	153
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	12	20	20	20	20
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***	2011			193	174	157	141	127
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								
◇◇◇◇								

Table J-30: City of O'Donnell Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>								
	Dawson	Brazos	17	17	17	17	17	16
	Lynn	Brazos	144	146	142	138	130	121
<b>Total</b>			161	163	159	155	147	137
<b>Projected Municipal Water Supply</b>								
	Ogallala	Aquifer						
	CRMWA							
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		<b>Date Drilled</b>	<b>Depths feet</b>	<b>Tested GPM</b>	<b>Rated GPM</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			1.82 feet		NA	65	75	75
Average Annual Water Level Decline.			0.18 feet		NA	70	75	75
Quantity of Water in Storage in 1995: HPUWCD analysis.			5,187 acft					
Quantity of Water Used 1995-2004: Reported to TWDB.			1,430 acft					
Quantity of Water Remaining in 2005.			3,757 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			161	163	159	155	147	137
<b>Projected Municipal Water Supply</b>								
Existing Municipal Water Supply			322	322	322	322	292	292
<b>Projected Total Municipal Water Supply</b>			322	322	322	322	292	292
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J 31: City of Olton Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lamb	Brazos	492	512	532	542	536	529
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			100--120 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			26.00 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			2.60 feet		0	280	90	200
					1963	330	140	230
Quantity of Water in Storage in 1995: HPUWCD analysis.			13,435 acft		1978	340	160	300
Quantity of Water Used 1995-2004: Reported to TWDB.			4,777 acft		1986	324	1,330	300
Quantity of Water Remaining in 2005.			8,658 acft		2005	320	170	300
					2005	320	170	300
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			492	512	532	542	536	529
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			492	512	532	542	536	529
New Well # 1*** Implemented	2021	2005	410	369	332	299	270	244
New Well # 2*** Implemented	2025	2005	428	385	346	312	282	255
<b>Projected Total Municipal Water Supply</b>			1,329	1,265	1,210	1,152	1,088	1,028
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			27	17	12	3	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Implemented from 2001 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need after implementation of Wells #1and #2.								

Table J-32: City of Petersburg Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Hale	Brazos	289	304	313	316	312	306
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			120--180 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			17.54 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			1.75 feet		1958	420	300	300
					1965	380	300	200
Quantity of Water in Storage in 1995: HPUWCD analysis.			17,858 acft		1997	425	400	275
Quantity of Water Used 1995-2004: Reported to TWDB.			2,434 acft					
Quantity of Water Remaining in 2005.			15,424 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			289	304	313	316	312	306
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			289	304	313	316	0	0
<b>Projected Total Municipal Water Supply</b>			289	304	313	316	0	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	312	306
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			21	24	20	16	14	14
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***	2041						410	369
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								
◇◇◇◇								

Table J-33: City of Plains Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Yoakum	Colorado	416	448	468	488	473	457
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006.**			NA feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			NA feet		0	130	100	100
					1971	198	170	180
Quantity of Water in Storage in 1995: HPUWCD analysis.			9,278 acft		1971	196	90	120
Quantity of Water Used 1995-2004: Reported to TWDB.			3,430 acft		1995	190	250	500
Quantity of Water Remaining in 2005.			5,848 acft		1998	140	490	1,000
					1998	134	385	1,000
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			416	448	468	488	473	457
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			416	0	0	0	0	0
<b>Projected Total Municipal Water Supply</b>			416	0	0	0	0	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	448	468	488	473	457
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			33	68	106	107	102	98
<b>New Water Supplies Needed (acft/yr)</b>								
	Well #1***	2012		414	373	335	302	272
	Well #2***	2016		204	184	165	149	134
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** Not Available.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								



Table J-35: City of Post Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Garza	Brazos	631	642	616	579	549	512
<b>Projected Municipal Water Supply</b>	White River MWD CRMWA via Slaton							
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995:			NA	feet	<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006:			NA	feet	<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			NA	feet	<b>Sources</b> White River MWD CRMWA/via Slaton			
Quantity of Water in Storage in 1995:			NA	acft				
Quantity of Water Used 1995-2004: Reported to TWDB.			5,913	acft				
Quantity of Water Remaining in 2005.			NA	acft				
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			631	642	616	579	549	512
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			1,327	1,279	799	318	306	306
<b>CRMWA via Slaton</b>		2,007	????					
<b>Projected Total Municipal Water Supply</b>								
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	261	243	206
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-36: City of Ralls Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Crosby	Brazos	304	315	322	325	323	318
<b>Projected Municipal Water Supply</b>	White River MWD							
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			80--100 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			1.75 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.17 feet		<b>Source: White River MWD</b>			
Quantity of Water in Storage in 1995: HPUWCD analysis.			10,380 acft					
Quantity of Water Used 1995-2004: Reported to TWDB.			2,948 acft					
Quantity of Water Remaining in 2005.			7,432 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			304	315	322	325	323	318
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			318	318	318	318	0	0
<b>Projected Total Municipal Water Supply</b>			318	318	318	318	0	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	4	7	323	318
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***								
Well #2***								
Well #3***								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-37: City of Ransom Canyon Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lubbock	Brazos	440	569	698	825	953	1,004
<b>Projected Municipal Water Supply</b>	Lubbock							
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006:			NA	feet	<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			NA	feet	<b>Source: Lubbock</b>			
Quantity of Water in Storage in 1995: HPUWCD analysis.			1,322	acft				
Quantity of Water Used 1995-2004: Reported to TWDB.			2,699	acft				
Quantity of Water Remaining in 2005.			NA	acft				
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>			440	569	698	825	953	1,004
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			440	569	698	825	953	1,004
<b>Projected Total Municipal Water Supply</b>			440	569	698	825	953	1,004
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			35	90	162	248	325	342
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-38: City of Ropesville Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Hockley	Brazos	89	91	91	89	85	81
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			5.27 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.53 feet		1969	213	140	140
					1969	205	160	160
Quantity of Water in Storage in 1995: HPUWCD analysis.			2,487 acft					
Quantity of Water Used 1995-2004: Reported to TWDB.			NA acft					
Quantity of Water Remaining in 2005.			NA acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			89	91	91	89	85	81
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			89	91	0	0	0	0
<b>Projected Total Municipal Water Supply</b>			89	91	0	0	0	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	91	89	85	81
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***	2021				193	174	157	141
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								



Table J-40: City of Seminole Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Gaines	Colorado	2,214	2,401	2,525	2,605	2,579	2,544
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells * continued</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			NA	feet	<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			NA	feet	1964	214	NA	200
					1970	252	NA	400
Quantity of Water in Storage in 1995: HPUWCD analysis.			NA	acft	1975	246	NA	400
Quantity of Water Used 1995-2004: Reported to TWDB.			18,588	acft	1988	253	NA	250
Quantity of Water Remaining in 2005.			NA	acft	1988	253	NA	500
					1995	250	NA	225
<b>Existing Wells *</b>					1995	260	NA	225
	<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>	1995	251	NA	225
	<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>	2002	225	206	206
	NA	190	NA	200	2003	215	NA	250
	NA	216	NA	150	2004	205	NA	400
	NA	243	200	500	2004	240	NA	100
	NA	234	250	200	2005	202	NA	125
	1955	185	NA	300	2005	190	NA	100
	1956	184	NA	100	2005	202	NA	500
	1959	197	NA	200	2006	205	NA	500
	1959	210	NA	600	2006	240	NA	150
	1964	282	NA	420				
	<b>Date</b>	<b>Date</b>	<b>2010</b>	<b>2020</b>	<b>2030</b>	<b>2040</b>	<b>2050</b>	<b>2060</b>
	<b>Needed</b>	<b>Added</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>	<b>(acft)</b>
<b>Projected Municipal Water Demand</b>			2,214	2,401	2,525	2,605	2,579	2,544
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>		?????	2,214	2,401	2,525	2,605	2,579	2,544
<b>Projected Total Municipal Water Supply</b>			2,214	2,401	2,525	2,605	2,579	2,544
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S	???????	0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			178	384	588	778	938	1,035
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***		???????						
Well #2***		???????						
Well #3***		???????						
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-41: City of Shallowater Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lubbock	Brazos	344	367	377	371	379	371
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			3.50 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.35 feet		NA	145	100	150
					1974	160	150	375
Quantity of Water in Storage in 1995: HPUWCD analysis.			3,204 acft		1975	130	90	150
Quantity of Water Used 1995-2004: Reported to TWDB.			3,349 acft		1982	143	50	150
Quantity of Water Remaining in 2005.			0 acft		1982	145	140	150
					1982	148	100	150
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			344	367	377	371	379	371
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			187	187	187	187	187	187
<b>Projected Total Municipal Water Supply</b>			187	187	187	187	187	187
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		157	180	190	184	192	184
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***	2006		432	389	350	315	283	255
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-42: City of Silverton Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Briscoe	Red	128	128	123	115	111	108
<b>Projected Municipal Water Supply</b>	Ogallala Aquifer Mackenzie MWA							
<b>Aquifer Data in Vicinity of Wells</b>			<b>Existing Wells *</b>					
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006.**			NA feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			NA feet		0	220	35	35
					0	220	35	35
Quantity of Water in Storage in 1995: HPUWCD analysis.			5,958 acft		1995	218	155	155
Quantity of Water Used 1995-2004: Reported to TWDB.			1,132 acft		1995	231	80	80
Quantity of Water Remaining in 2005.			4,826 acft		1997	225	50	200
					2005	323	NA	32
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			128	128	123	115	111	108
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>								
New Well # 1*** Implemented	2006	2005	204	183	165	148	134	120
<b>Projected Total Municipal Water Supply</b>			204	183	165	148	134	120
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** Not Available.								
*** Implemented from 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need after implementation of Well #1.								

Table J-43: City of Slaton Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lubbock	Brazos	907	889	870	849	837	836
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			40--160 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			7.80 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.78 feet		22 wells off-line			
Quantity of Water in Storage in 1995: HPUWCD analysis.			16,298 acft		Source: CRMWA			
Quantity of Water Used 1995-2004: Reported to TWDB.			8,157 acft					
Quantity of Water Remaining in 2005.			8,141 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			907	889	870	849	837	836
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>	CRMWA	306 acft/y	1,063	1,063	1,063	1,063	583	583
<b>Projected Total Municipal Water Supply</b>	adjusted	to Post	1,063	1,063	1,063	1,063	583	583
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	254	253
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-44: City of Smyer Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Hockley	Brazos	69	70	70	68	65	62
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 40 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			3.72 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.37 feet		1964	137	50	50
					1970	148	50	85
Quantity of Water in Storage in 1995: HPUWCD analysis.			3,467 acft		1978	133	60	70
Quantity of Water Used 1995-2004: Reported to TWDB.			NA acft		2003	119	60	NA
Quantity of Water Remaining in 2005.			NA acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			69	70	70	68	65	62
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			69	70	70	68	65	0
<b>Projected Total Municipal Water Supply</b>			69	70	70	68	65	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	62
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***	2051							193
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-45: City of Spur Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Dickens	Brazos	271	267	263	260	257	257
<b>Projected Municipal Water Supply</b>	White	River						
<b>Aquifer Data in Vicinity of Wells</b>			<b>Existing Wells *</b>					
Saturated Thickness -- 1995.			NA	feet	<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006.**			NA	feet	<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			NA	feet	<b>Source: White River MWD</b>			
Quantity of Water in Storage in 1995: HPUWCD analysis.			NA	acft				
Quantity of Water Used 1995-2004: Reported to TWDB.			2,894	acft				
Quantity of Water Remaining in 2005.			NA	acft				
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>			271	267	263	260	257	257
<b>Projected Municipal Water Supply</b>								
Existing Municipal Water Supply			271	267	263	260	106	0
<b>Projected Total Municipal Water Supply</b>			271	267	263	260	106	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	151	257
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			21	42	54	50	48	48
<b>New Water Supplies Needed (acft/yr)</b>		???????						
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** Not Available.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								
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Table J-46: City of Sudan Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lamb	Brazos	226	236	244	249	246	243
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			20 -- 40 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			1.64 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.16 feet		1959	220	75	75
					1979	226	200	300
Quantity of Water in Storage in 1995: HPUWCD analysis.			4,820 acft		1990	204	65	35
Quantity of Water Used 1995-2004: Reported to TWDB.			2,169 acft		1994	202	150	175
Quantity of Water Remaining in 2005.			2,651 acft		2003	218	100	87
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			226	236	244	249	246	243
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			226	0	0	0	0	0
New Well # 1*** Implemented	2016	2003		432	389	350	315	283
<b>Projected Total Municipal Water Supply</b>			226	432	389	350	315	283
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			15	12	8	4	3	3
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Implemented from 2001 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need after implementation of Well #1.								

Table J-47: City of Sundown Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Hockley	Colorado	341	350	353	347	332	316
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>			<b>Existing Wells *</b>					
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			1.33 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.13 feet		1941	225	155	180
					1941	225	125	150
Quantity of Water in Storage in 1995: HPUWCD analysis.			6,654 acft		1954	216	500	377
Quantity of Water Used 1995-2004: Reported to TWDB.			3,293 acft		1973	207	500	204
Quantity of Water Remaining in 2005.			3,361 acft		1976	211	165	185
					1976	203	160	150
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			341	350	353	347	332	316
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			341	0	0	0	0	0
<b>Projected Total Municipal Water Supply</b>			341	0	0	0	0	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	350	353	347	332	316
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			24	25	19	14	11	11
<b>New Water Supplies Needed (acft/yr)</b>								
	Well #1***	2016		204	184	165	149	134
	Well #2 ***	2018		208	187	169	152	137
	Well #3 ***	2023			198	178	160	144
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-48: City of Tahoka Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lynn	Brazos	492	504	490	478	453	421
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
	CRMWA							
Aquifer Data in Vicinity of Wells			Existing Wells *					
Saturated Thickness -- 1995: HPUWCD analysis.			60 -- 80 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			2.82 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.28 feet		0	80	100	100
					0	116	125	125
Quantity of Water in Storage in 1995: HPUWCD analysis.			13,528 acft		0	90	100	100
Quantity of Water Used 1995-2004: Reported to TWDB.			4,794 acft		1946	80	100	NA
Quantity of Water Remaining in 2005.			8,734 acft		2004	122	150	150
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>			492	504	490	478	453	421
<b>Projected Municipal Water Supply</b>								
Existing Municipal Water Supply			534	534	534	534	460	460
<b>Projected Total Municipal Water Supply</b>			534	534	534	534	460	460
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	0	0	0	0	0
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								
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Table J-49: City of Tulia Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Swisher	Red	1,050	1,065	1,072	1,064	1,038	993
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
	Dockum	Aquifer						
Aquifer Data in Vicinity of Wells			Existing Wells *					
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006.**			NA feet		Drilled	feet	GPM	GPM
Average Annual Water Level Decline.			NA feet		1965	185	250	250
					1965	186	250	250
Quantity of Water in Storage in 1995: HPUWCD analysis.			16,191 acft		1967	825	1,150	1,100
Quantity of Water Used 1995-2004: Reported to TWDB.			9,634 acft		1973	860	625	625
Quantity of Water Remaining in 2005.			6,557 acft		1978	800	425	400
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>			1,050	1,065	1,072	1,064	1,038	993
<b>Projected Municipal Water Supply</b>								
Existing Municipal Water Supply			663	648	655	647	621	576
<b>Projected Total Municipal Water Supply</b>			663	648	655	647	621	576
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		417	417	417	417	417	417
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			18	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***	2006		432	389	350	315	283	255
Well #2***	2006		432	389	350	315	283	255
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** Not Available.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								

Table J-50: City of Wilson Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
<b>Projected Municipal Water Demand</b>	Lynn	Brazos	67	68	65	63	60	55
<b>Projected Municipal Water Supply</b>	Ogallala	Aquifer						
<b>Aquifer Data in Vicinity of Wells</b>					<b>Existing Wells *</b>			
Saturated Thickness -- 1995: HPUWCD analysis.			20 -- 40 feet		<b>Date</b>	<b>Depths</b>	<b>Tested</b>	<b>Rated</b>
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			4.13 feet		<b>Drilled</b>	<b>feet</b>	<b>GPM</b>	<b>GPM</b>
Average Annual Water Level Decline.			0.41 feet		NA	120	40	40
					1980	116	40	40
Quantity of Water in Storage in 1995: HPUWCD analysis.			1,668 acft		1980	110	44	50
Quantity of Water Used 1995-2004: Reported to TWDB.			634 acft		1982	108	28	40
Quantity of Water Remaining in 2005.			1,034 acft					
	<b>Date Needed</b>	<b>Date Added</b>	<b>2010 (acft)</b>	<b>2020 (acft)</b>	<b>2030 (acft)</b>	<b>2040 (acft)</b>	<b>2050 (acft)</b>	<b>2060 (acft)</b>
<b>Projected Municipal Water Demand</b>			67	68	65	63	60	55
<b>Projected Municipal Water Supply</b>								
<b>Existing Municipal Water Supply</b>			67	0	0	0	0	0
<b>Projected Total Municipal Water Supply</b>			67	0	0	0	0	0
<b>Projected Municipal Water Need (acft/yr)<sup>1</sup></b>	D-S		0	68	65	63	60	55
<b>Water Management Strategies</b>								
<b>Water Conservation Water Management Strategy</b>			0	0	0	0	0	0
<b>New Water Supplies Needed (acft/yr)</b>								
Well #1***	2011			193	174	157	141	127
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** The Cross Section, High Plains Underground Water Conservation District, April 2006.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
<sup>1</sup> Value represents total municipal need.								
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