

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)
Projected Municipal Water Demand								
	Hale	Brazos	486	508	526	531	525	514
	Lubbock	Brazos	171	182	188	186	190	186
Total			657	690	714	717	715	700
Projected Municipal Water Supply								
	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			80 -- 140 feet		Date Drilled	Depths feet	Tested GPM	Rated GPM
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			3.38 feet		1966	289	250	340
Average Annual Water Level Decline.			0.34 feet		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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			657	690	714	717	715	700
Projected Municipal Water Supply								
Existing Municipal Water Supply			657	193	174	157	141	127
	New Well # 1*** Implemented	2011 2002		193	174	157	141	127
Projected Total Municipal Water Supply			657	386	348	314	282	254
Projected Municipal Water Need (acft/yr)¹			0	304	366	403	433	446
Water Management Strategies								
Water Conservation Water Management Strategy			50	48	43	32	28	27
New Water Supplies Needed (acft/yr)								
	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.								
¹ 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)
Projected Municipal Water Demand	Lamb	Brazos	168	176	182	185	183	181
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		Date Drilled	Depths feet	Tested GPM	Rated GPM
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			4.58 feet		1956	200	20	300
Average Annual Water Level Decline.			0.91 feet		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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			168	176	182	185	183	181
Projected Municipal Water Supply								
Existing Municipal Water Supply			168	196	176	158	143	128
New Well # 1*** Implemented	2011	2002		196	176	158	143	128
Projected Total Municipal Water Supply			168	391	352	317	285	257
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			7	5	2	0	0	0
New Water Supplies Needed (acft/yr)								
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.								
¹ Value represents total municipal need after implementation of Well #1.								
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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)
Projected Municipal Water Demand								
	Parmer	Brazos	321	334	335	330	317	300
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			60 -- 80 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			14.96 feet		Drilled	feet	GPM	GPM
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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			321	334	335	330	317	300
Projected Municipal Water Supply								
Existing Municipal Water Supply			321	334	335	330	317	300
Projected Total Municipal Water Supply			321	334	335	330	317	300
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
	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.								
¹ 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)
Projected Municipal Water Demand								
	Terry	Colorado	2,747	2,905	3,047	3,181	3,185	3,167
Projected Municipal Water Supply	Ogallala	Aquifer						
	CRMWA							
Aquifer Data in Vicinity of Wells					Existing Wells * continued			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			10.04 feet		Drilled	feet	GPM	GPM
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
Existing Wells *					1961	165	450	450
	Date	Depths	Tested	Rated	1963	150	290	290
	Drilled	feet	GPM	GPM	1964	175	155	155
	1945	157	400	400	1964	170	270	270
	1947	151	300	300	1964	150	250	250
	1951	145	200	200				
	Date	Date	2010	2020	2030	2040	2050	2060
	Needed	Added	(acft)	(acft)	(acft)	(acft)	(acft)	(acft)
Projected Municipal Water Demand			2,747	2,905	3,047	3,181	3,185	3,167
Projected Municipal Water Supply								
Existing Municipal Water Supply			2,816	2,790	2,767	2,746	2,727	2,710
Projected Total Municipal Water Supply			2,816	2,790	2,767	2,746	2,727	2,710
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	280	435	458	457
Water Management Strategies								
Water Conservation Water Management Strategy			211	448	687	802	793	788
New Water Supplies Needed (acft/yr)								
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.								
¹ 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)
Projected Municipal Water Demand	Crosby	Brazos	369	386	394	402	400	394
Projected Municipal Water Supply	Ogallala Aquifer White River MWD							
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			140--180 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			NA feet		Drilled	feet	GPM	GPM
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					
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			369	386	394	402	400	394
Projected Municipal Water Supply								
Existing Municipal Water Supply			439	439	439	439	439	58
Projected Total Municipal Water Supply			439	439	439	439	439	58
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	336
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
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.								
¹ 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)
Projected Municipal Water Demand	Yoakum	Colorado	1,043	1,126	1,172	1,220	1,181	1,141
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			NA	feet	Drilled	feet	GPM	GPM
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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			1,043	1,126	1,172	1,220	1,181	1,141
Projected Municipal Water Supply								
Existing Municipal Water Supply			1,043	1,126	0	0	0	0
New Well # 1*** Implemented	2021	2004			193	174	157	141
Projected Total Municipal Water Supply			1,043	1,126	193	174	157	141
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	979	1,046	1,024	1,000
Water Management Strategies								
Water Conservation Water Management Strategy			77	169	179	171	160	155
New Water Supplies Needed (acft/yr)								
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.								
¹ 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)
Projected Municipal Water Demand	Castro	Brazos	1,041	1,103	1,137	1,159	1,150	1,130
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells * continued			
Saturated Thickness -- 1995: HPUWCD analysis.			100--160 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			41.45 feet		Drilled	feet	GPM	GPM
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
Existing Wells *					1977	372	350	480
	Date	Depths	Tested	Rated	1977	376	350	420
	Drilled	feet	GPM	GPM	1977	374	350	480
	1955	413	200	140	1977	374	350	480
	1957	427	300	500	1979	376	475	475
	1957	384	425	425	1994	354	450	450
	1957	427	300	300	2005	380	350	500
	Date	Date	2010	2020	2030	2040	2050	2060
	Needed	Added	(acft)	(acft)	(acft)	(acft)	(acft)	(acft)
Projected Municipal Water Demand			1,041	1,103	1,137	1,159	1,150	1,130
Projected Municipal Water Supply								
Existing Municipal Water Supply			1,041	1,103	0	0	0	0
New Well # 1*** Implemented	2017	2005		437	393	354	318	286
Projected Total Municipal Water Supply			1,041	1,540	393	354	318	286
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	744	805	832	844
Water Management Strategies								
Water Conservation Water Management Strategy			75	110	97	81	75	74
New Water Supplies Needed (acft/yr)								
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.								
¹ 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)
Projected Municipal Water Demand	Lamb	Brazos	257	268	277	283	280	276
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			60 -- 80 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			20.14 feet		Drilled	feet	GPM	GPM
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					
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			257	268	277	283	280	276
Projected Municipal Water Supply								
Existing Municipal Water Supply			257	268	277	0	0	0
Projected Total Municipal Water Supply			257	268	277	0	0	0
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	283	280	276
Water Management Strategies								
Water Conservation Water Management Strategy			20	28	25	21	20	17
New Water Supplies Needed (acft/yr)								
	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.								
¹ Value represents total municipal need.								
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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)
Projected Municipal Water Demand	Parmer	Brazos	388	405	410	408	393	371
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			80--120 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			34.73 feet		Drilled	feet	GPM	GPM
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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			388	405	410	408	393	371
Projected Municipal Water Supply								
Existing Municipal Water Supply		?????	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
Projected Total Municipal Water Supply			388	404	363	327	294	265
Projected Municipal Water Need (acft/yr)¹	D-S		0	1	47	81	99	106
Water Management Strategies								
Water Conservation Water Management Strategy			33	64	94	101	97	91
New Water Supplies Needed (acft/yr)								
* 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.								
¹ 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)
Projected Municipal Water Demand	Floyd	Brazos	680	696	693	685	657	623
Projected Municipal Water Supply	Ogallala Aquifer Lake Mackenzie							
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			80--100 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			5.92 feet		Drilled	feet	GPM	GPM
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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			680	696	693	685	657	623
Projected Municipal Water Supply								
Existing Municipal Water Supply			680	696	693	685	657	623
Projected Total Municipal Water Supply			680	696	693	685	657	623
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)			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.								
¹ Value represents total municipal need.								
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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)	
Projected Municipal Water Demand	Parmer	Red	835	872	879	870	838	791	
Projected Municipal Water Supply	Ogallala	Aquifer							
Aquifer Data in Vicinity of Wells					Existing Wells * continued				
Saturated Thickness -- 1995: HPUWCD analysis.			180--220 feet		Date	Depths	Tested	Rated	
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			8.44 feet		Drilled	feet	GPM	GPM	
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	
Existing Wells *									
	Date	Depths	Tested	Rated					
	Drilled	feet	GPM	GPM					
	NA	501	300	300					
	NA	501	300	300					
	1953	222	100	100					
	Date	Date	2010	2020	2030	2040	2050	2060	
	Needed	Added	(acft)	(acft)	(acft)	(acft)	(acft)	(acft)	
Projected Municipal Water Demand			835	872	879	870	838	791	
Projected Municipal Water Supply									
Existing Municipal Water Supply			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
Projected Total Municipal Water Supply			956	1,421	495	445	401	360	
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	384	425	437	431	
Water Management Strategies									
Water Conservation Water Management Strategy			46	34	20	5	0	0	
New Water Supplies Needed (acft/yr)									
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.									
¹ 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)
Projected Municipal Water Demand	Hale	Brazos	470	493	509	513	507	498
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			120--160 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			12.37 feet		Drilled	feet	GPM	GPM
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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			470	493	509	513	507	498
Projected Municipal Water Supply								
Existing Municipal Water Supply			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
Projected Total Municipal Water Supply			470	493	607	740	666	599
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
* 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.								
¹ 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)
Projected Municipal Water Demand	Swisher	Red	109	110	111	110	108	103
Projected Municipal Water Supply	Santa Rosa/Dockum Aquifer							
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			NA	feet	Drilled	feet	GPM	GPM
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				
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			109	110	111	110	108	103
Projected Municipal Water Supply								
Existing Municipal Water Supply			109	110	111	110	108	103
Projected Total Municipal Water Supply			109	110	111	110	108	103
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
	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.								
¹ Value represents total municipal need.								
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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)
Projected Municipal Water Demand	Castro	Brazos	238	251	258	262	260	256
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			160--200 feet		Date Drilled	Depths feet	Tested GPM	Rated GPM
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			41.29 feet		1949	350	200	650
Average Annual Water Level Decline.			4.13 feet		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					
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			238	251	258	262	260	256
Projected Municipal Water Supply								
Existing Municipal Water Supply			238	251	258	262	0	0
New Well # 1*** Implemented	2041	2002	193	193	193	193	193	174
Projected Total Municipal Water Supply			431	444	451	455	193	174
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	67	82
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
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.								
¹ Value represents total municipal need after implementation of Well #1.								
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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)
Projected Municipal Water Demand	Deaf Smith	Red	3,634	3,694	3,751	3,788	3,801	3,813
Projected Municipal Water Supply	Ogallala	Aquifer						
	Santa Rosa	Dockum Aquifer						
Aquifer Data in Vicinity of Wells			Existing Wells * continued					
Saturated Thickness -- 1995: HPUWCD analysis.			140--180 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			0.72 feet		Drilled	feet	GPM	GPM
Average Annual Water Level Decline.			0.07 feet		1966	346	180	346
					1967	350	175	550
Quantity of Water in Storage in 1995: HPUWCD analysis.			NA acft		1967	350	190	350
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
					1976	357	80	357
					1976	365	70	365
					1979	412	135	412
					1979	452	185	452
					1979	467	240	467
					1986	800	510	800
					1989	462	85	462
					1990	800	590	800
					1994	880	580	880
					1994	348	60	345
					1995	328	115	315
					1995	854	550	815
					1995	880	550	810
					2004	359	170	NA
					2004	480	250	NA
					2004	432	220	NA
					2004	424	180	NA
	Date	Date	2010	2020	2030	2040	2050	2060
	Needed	Added	(acft)	(acft)	(acft)	(acft)	(acft)	(acft)
Projected Municipal Water Demand			3,634	3,694	3,751	3,788	3,801	3,813
Projected Municipal Water Supply								
Existing Municipal Water Supply			3,994	3,983	7,502	7,576	7,602	7,602
Projected Total Municipal Water Supply			3,994	3,983	7,502	7,576	7,602	7,602
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			302	572	649	610	596	598
New Water Supplies Needed (acft/yr)								
* 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.								
¹ 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)
Projected Municipal Water Demand	Lubbock	Brazos	289	288	281	274	273	272
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			80--120 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			10.18 feet		Drilled	feet	GPM	GPM
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					
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			289	288	281	274	273	272
Projected Municipal Water Supply								
Existing Municipal Water Supply			289	288	281	0	0	0
Projected Total Municipal Water Supply			289	288	281	0	0	0
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	274	273	272
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
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.								
¹ Value represents total municipal need.								
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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)	
Projected Municipal Water Demand									
	Swisher	Brazos	22	22	22	22	21	20	
	Swisher	Red	82	82	83	81	79	76	
Total			104	104	105	103	100	96	
Projected Municipal Water Supply									
	Ogallala	Aquifer							
Aquifer Data in Vicinity of Wells					Existing Wells *				
Saturated Thickness -- 1995: HPUWCD analysis.			60 -- 80 feet		Date Drilled	Depths feet	Tested GPM	Rated GPM	
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			0.00 feet		1972	345	125	300	
Average Annual Water Level Decline.			0.00 feet		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						
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)	
Projected Municipal Water Demand			104	104	105	103	100	96	
Projected Municipal Water Supply									
Existing Municipal Water Supply			0	0	0	0	0	0	
New Well # 1*** Implemented		2006	2006	204	184	165	149	134	120
Projected Total Municipal Water Supply			204	184	165	149	134	120	
Projected Municipal Water Need (acft/yr)¹			D-S	0	0	0	0	0	
Water Management Strategies									
Water Conservation Water Management Strategy			0	0	0	0	0	0	
New Water Supplies Needed (acft/yr)									
* 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.									
¹ Value represents total municipal need after implementation of Well #1.									

Table -20: City of Levelland Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand	Hockley	Brazos	2,310	2,362	2,369	2,322	2,216	2,107
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells * continued			
Saturated Thickness -- 1995: HPUWCD analysis.			60--100 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			6.80 feet		Drilled	feet	GPM	GPM
Average Annual Water Level Decline.			0.68 feet		1955	241	340	550
					1955	255	280	550
Quantity of Water in Storage in 1995: HPUWCD analysis.			85,502 acft		1957	240	200	400
Quantity of Water Used 1995-2004: Reported to TWDB.			18,867 acft		1958	245	440	550
Quantity of Water Remaining in 2005.			66,635 acft		1959	246	270	500
					1960	220	300	550
Existing Wells *					1962	234	270	600
	Date	Depths	Tested	Rated	1965	254	220	500
	Drilled	feet	GPM	GPM	1967	256	370	550
	1946	231	210	400	1979	212	175	200
	1949	241	220	400	1979	212	200	400
	1953	236	440	550				
	Date	Date	2010	2020	2030	2040	2050	2060
	Needed	Added	(acft)	(acft)	(acft)	(acft)	(acft)	(acft)
Projected Municipal Water Demand			2,310	2,362	2,369	2,322	2,216	2,107
Projected Municipal Water Supply								
Existing Municipal Water Supply			3,236	3,236	3,236	3,236	2,808	2,808
Projected Total Municipal Water Supply			3,236	3,236	3,236	3,236	2,808	2,808
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
* 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.								
¹ Value represents total municipal need.								

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)
Projected Municipal Water Demand	Lamb	Brazos	1,530	1,602	1,660	1,694	1,676	1,655
Projected Municipal Water Supply	Ogallala	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: HPUWCD measurements.**			1.34 feet		Drilled	feet	GPM	GPM
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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			1,530	1,602	1,660	1,694	1,676	1,655
Projected Municipal Water Supply								
Existing Municipal Water Supply			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
Projected Total Municipal Water Supply			2,430	2,412	2,389	2,350	2,266	2,186
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			118	196	181	161	151	149
New Water Supplies Needed (acft/yr)								
* 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.								
¹ Value represents total municipal need after implementation of Wells #1 and #2.								

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)
Projected Municipal Water Demand	Lubbock	Brazos	49,822	51,587	52,416	52,600	53,040	54,305
Projected Municipal Water Supply	Ogallala	Aquifer and CRMWA						
Aquifer Data in Vicinity of Wells								
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					
Existing Wells *								
Date Drilled	Depths feet	Tested GPM	Rated GPM					
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							
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			49,822	51,587	52,416	52,600	53,040	54,305
Projected Municipal Water Supply			42,000	42,000	40,000	38,000	35,000	35,000
Projected Municipal Water Need (acft/yr)¹	D-S		7,822	9,587	12,416	14,600	18,040	19,305
Water Management Strategies								
Water Conservation Water Management Strategy			4,132	7,662	7,112	6,441	6,256	6,405
New Water Supplies Needed (acft/yr)								
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.								
¹ 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)
Projected Municipal Water Demand	Terry	Colorado	73	75	78	80	79	79
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells			Existing Wells *					
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006.**			NA	feet	Drilled	feet	GPM	GPM
Average Annual Water Level Decline.			NA	feet	1936	140	50	50
Quantity of Water in Storage in 1995: HPUWCD analysis.			9,891	acft	1951	151	100	100
Quantity of Water Used 1995-2004: Reported to TWDB.			1,094	acft	1986	150	140	140
Quantity of Water Remaining in 2005.			8,797	acft				
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			73	75	78	80	79	79
Projected Municipal Water Supply								
Existing Municipal Water Supply			73	75	78	80	79	79
Projected Total Municipal Water Supply			73	75	78	80	79	79
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2007.								
** Not Available.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
¹ Value represents total municipal need.								
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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)
Projected Municipal Water Demand	Cochran	Brazos	535	560	565	547	521	496
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 80 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			6.72 feet		Drilled	feet	GPM	GPM
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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			535	560	565	547	521	496
Projected Municipal Water Supply								
Existing Municipal Water Supply			535	0	0	0	0	0
Projected Total Municipal Water Supply			535	0	0	0	0	0
Projected Municipal Water Need (acft/yr)¹	D-S		0	560	565	547	521	496
Water Management Strategies								
Water Conservation Water Management Strategy			41	56	48	38	34	32
New Water Supplies Needed (acft/yr)								
	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.								
¹ Value represents total municipal need.								
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Table J-28: City of Muleshoe Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand	Bailey	Brazos	1,027	1,082	1,109	1,137	1,135	1,114
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells * continued			
Saturated Thickness -- 1995: HPUWCD analysis.			100--120 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			10.98 feet		Drilled	feet	GPM	GPM
Average Annual Water Level Decline.			1.10 feet		1970	201	350	350
					1970	200	250	250
Quantity of Water in Storage in 1995: HPUWCD analysis.			169,509 acft		1970	200	320	320
Quantity of Water Used 1995-2004: Reported to TWDB.			9,674 acft		1970	211	290	290
Quantity of Water Remaining in 2005.			159,835 acft		1975	227	100	250
					1975	226	80	400
					1982	215	80	80
					1982	203	190	190
					1983	210	80	120
					1989	200	200	200
					2002	220	220	300
					2004	200	390	352
					2005	233	450	390
Existing Wells *								
	Date	Depths	Tested	Rated				
	Drilled	feet	GPM	GPM				
	1969	214	200	200				
	1969	191	100	100				
	1969	200	125	125				
	1969	200	190	190				
	1969	200	230	230				
	Date	Date	2010	2020	2030	2040	2050	2060
	Needed	Added	(acft)	(acft)	(acft)	(acft)	(acft)	(acft)
Projected Municipal Water Demand			1,027	1,082	1,109	1,137	1,135	1,114
Projected Municipal Water Supply								
Existing Municipal Water Supply			1,027	1,082	1,109	1,137	1,135	1,114
Projected Total Municipal Water Supply			1,027	1,082	1,109	1,137	1,135	1,114
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			79	81	67	51	44	44
New Water Supplies Needed (acft/yr)								
* 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.								
¹ Value represents total municipal need.								

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)
Projected Municipal Water Demand	Lubbock	Brazos	149	165	173	173	178	173
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			20--100 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			4.87 feet		Drilled	feet	GPM	GPM
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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			149	165	173	173	173	173
Projected Municipal Water Supply								
Existing Municipal Water Supply			153	153	153	153	153	153
Projected Total Municipal Water Supply			153	153	153	153	153	153
Projected Municipal Water Need (acft/yr)¹	D-S		0	12	20	20	20	20
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
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.								
¹ Value represents total municipal need.								
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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)
Projected Municipal Water Demand								
	Dawson	Brazos	17	17	17	17	17	16
	Lynn	Brazos	144	146	142	138	130	121
Total			161	163	159	155	147	137
Projected Municipal Water Supply								
	Ogallala	Aquifer						
	CRMWA							
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		Date Drilled	Depths feet	Tested GPM	Rated GPM
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					
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			161	163	159	155	147	137
Projected Municipal Water Supply								
Existing Municipal Water Supply			322	322	322	322	292	292
Projected Total Municipal Water Supply			322	322	322	322	292	292
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
* 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.								
¹ Value represents total municipal need.								
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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)
Projected Municipal Water Demand	Lamb	Brazos	492	512	532	542	536	529
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			100--120 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			26.00 feet		Drilled	feet	GPM	GPM
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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			492	512	532	542	536	529
Projected Municipal Water Supply								
Existing Municipal Water Supply			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
Projected Total Municipal Water Supply			1,329	1,265	1,210	1,152	1,088	1,028
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			27	17	12	3	0	0
New Water Supplies Needed (acft/yr)								
* 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.								
¹ Value represents total municipal need after implementation of Wells #1 and #2.								
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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)
Projected Municipal Water Demand	Hale	Brazos	289	304	313	316	312	306
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			120--180 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			17.54 feet		Drilled	feet	GPM	GPM
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					
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			289	304	313	316	312	306
Projected Municipal Water Supply								
Existing Municipal Water Supply			289	304	313	316	0	0
Projected Total Municipal Water Supply			289	304	313	316	0	0
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	312	306
Water Management Strategies								
Water Conservation Water Management Strategy			21	24	20	16	14	14
New Water Supplies Needed (acft/yr)								
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.								
¹ Value represents total municipal need.								
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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)
Projected Municipal Water Demand	Yoakum	Colorado	416	448	468	488	473	457
Projected Municipal Water Supply	Ogallala	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		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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			416	448	468	488	473	457
Projected Municipal Water Supply								
Existing Municipal Water Supply			416	0	0	0	0	0
Projected Total Municipal Water Supply			416	0	0	0	0	0
Projected Municipal Water Need (acft/yr)¹	D-S		0	448	468	488	473	457
Water Management Strategies								
Water Conservation Water Management Strategy			33	68	106	107	102	98
New Water Supplies Needed (acft/yr)								
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.								
¹ Value represents total municipal need.								
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Table J-34: City of Plainview Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand	Hale	Brazos	4,288	4,490	4,605	4,635	4,577	4,488
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells * continued			
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			NA	feet	Drilled	feet	GPM	GPM
Average Annual Water Level Decline.			NA	feet	1963	330	480	NA
					1965	330	620	800
Quantity of Water in Storage in 1995: HPUWCD analysis.			NA	acft	1965	336	710	900
Quantity of Water Used 1995-2004: Reported to TWDB.			43,164	acft	1968	344	550	800
Quantity of Water Remaining in 2005.			NA	acft	1968	281	470	800
					1968	299	520	535
Existing Wells *					1968	298	700	650
Date	Depths	Tested	Rated		1982	314	500	850
Drilled	feet	GPM	GPM		1983	368	670	1,000
1953	322	290	NA		2001	353	720	600
1959	315	770	750		2007	290	560	560
1961	313	120	NA					
	Date	Date	2010	2020	2030	2040	2050	2060
	Needed	Added	(acft)	(acft)	(acft)	(acft)	(acft)	(acft)
Projected Municipal Water Demand			4,288	4,490	4,605	4,635	4,577	4,488
Projected Municipal Water Supply								
Existing Municipal Water Supply			15,002	13,977	13,050	12,211	11,053	10,367
New Well # 1*** Implemented	2010	2001	500	450	405	365	328	295
New Well # 2*** Implemented	2010	2007	500	450	405	365	328	295
Projected Total Municipal Water Supply			16,002	14,877	13,860	12,940	11,709	10,957
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
Well #3 ****	2010		500	450	405	365	328	295
Well # 4 ****	2010		500	450	405	365	328	295
* 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.								
**** Needed for 2011 Regional Water Plan.								
NA means not available.								
¹ Value represents total municipal need after implementation of Wells #1 and #2.								

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)
Projected Municipal Water Demand	Crosby	Brazos	304	315	322	325	323	318
Projected Municipal Water Supply	White River MWD							
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			80--100 feet		Date Drilled	Depths feet	Tested GPM	Rated GPM
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			1.75 feet					
Average Annual Water Level Decline.			0.17 feet		Source: White River MWD			
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					
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			304	315	322	325	323	318
Projected Municipal Water Supply								
Existing Municipal Water Supply			318	318	318	318	0	0
Projected Total Municipal Water Supply			318	318	318	318	0	0
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	4	7	323	318
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
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.								
¹ 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)
Projected Municipal Water Demand	Lubbock	Brazos	440	569	698	825	953	1,004
Projected Municipal Water Supply	Lubbock							
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	Date Drilled	Depths feet	Tested GPM	Rated GPM
Decline in Water Level 1996 -- 2006:			NA	feet				
Average Annual Water Level Decline.			NA	feet				
					Source: Lubbock			
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)
Projected Municipal Water Demand			440	569	698	825	953	1,004
Projected Municipal Water Supply								
Existing Municipal Water Supply			440	569	698	825	953	1,004
Projected Total Municipal Water Supply			440	569	698	825	953	1,004
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			35	90	162	248	325	342
New Water Supplies Needed (acft/yr)								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
*** Needed for 2011 Regional Water Plan.								
NA means not available.								
¹ Value represents total municipal need.								
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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)
Projected Municipal Water Demand	Hockley	Brazos	89	91	91	89	85	81
Projected Municipal Water Supply	Ogallala	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: HPUWCD measurements.**			5.27 feet		Drilled	feet	GPM	GPM
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					
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			89	91	91	89	85	81
Projected Municipal Water Supply								
Existing Municipal Water Supply			89	91	0	0	0	0
Projected Total Municipal Water Supply			89	91	0	0	0	0
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	91	89	85	81
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
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.								
¹ Value represents total municipal need.								
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Table J-39: City of Seagraves Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand	Gaines	Colorado	449	482	502	513	506	499
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells * continued			
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			NA	feet	Drilled	feet	GPM	GPM
Average Annual Water Level Decline.			NA	feet	1953	160	40	260
					1956	160	150	220
Quantity of Water in Storage in 1995: HPUWCD analysis.			7,422	acft	1966	160	150	260
Quantity of Water Used 1995-2004: Reported to TWDB.			4,490	acft	1975	170	125	150
Quantity of Water Remaining in 2005.			2,932	acft	1978	155	150	260
					2000	181	50	50
					2000	180	150	150
					2002	165	50	50
					2004	165	150	NA
					2004	165	150	NA
					2006	185	0	165
Existing Wells *								
	Date	Depths	Tested	Rated				
	Drilled	feet	GPM	GPM				
	1900	185	35	NA				
	1900	185	65	NA				
	1949	168	150	270				
	Date	Date	2010	2020	2030	2040	2050	2060
	Needed	Added	(acft)	(acft)	(acft)	(acft)	(acft)	(acft)
Projected Municipal Water Demand			449	482	502	513	506	499
Projected Municipal Water Supply								
Existing Municipal Water Supply			0	0	0	0	0	0
New Well # 1*** Implemented	2006	2004	432	389	350	315	283	255
New Well # 2*** Implemented	2010	2004	213	191	172	155	139	125
New Well # 3*** Implemented	2019	2006		210	189	170	153	138
Projected Total Municipal Water Supply			645	790	711	640	576	519
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
* 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.								
¹ Value represents total municipal need after implementation of Wells #1, #2, and #3.								

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)
Projected Municipal Water Demand	Gaines	Colorado	2,214	2,401	2,525	2,605	2,579	2,544
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells * continued			
Saturated Thickness -- 1995: HPUWCD analysis.			NA	feet	Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			NA	feet	Drilled	feet	GPM	GPM
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
Existing Wells *					1995	260	NA	225
	Date	Depths	Tested	Rated	1995	251	NA	225
	Drilled	feet	GPM	GPM	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				
	Date	Date	2010	2020	2030	2040	2050	2060
	Needed	Added	(acft)	(acft)	(acft)	(acft)	(acft)	(acft)
Projected Municipal Water Demand			2,214	2,401	2,525	2,605	2,579	2,544
Projected Municipal Water Supply								
Existing Municipal Water Supply		?????	2,214	2,401	2,525	2,605	2,579	2,544
Projected Total Municipal Water Supply			2,214	2,401	2,525	2,605	2,579	2,544
Projected Municipal Water Need (acft/yr)¹	D-S	???????	0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			178	384	588	778	938	1,035
New Water Supplies Needed (acft/yr)								
	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.								
¹ 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)
Projected Municipal Water Demand	Lubbock	Brazos	344	367	377	371	379	371
Projected Municipal Water Supply	Ogallala	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: HPUWCD measurements.**			3.50 feet		Drilled	feet	GPM	GPM
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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			344	367	377	371	379	371
Projected Municipal Water Supply								
Existing Municipal Water Supply			187	187	187	187	187	187
Projected Total Municipal Water Supply			187	187	187	187	187	187
Projected Municipal Water Need (acft/yr)¹	D-S		157	180	190	184	192	184
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
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.								
¹ Value represents total municipal need.								
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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)
Projected Municipal Water Demand	Briscoe	Red	128	128	123	115	111	108
Projected Municipal Water Supply	Ogallala Aquifer Mackenzie MWA							
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		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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			128	128	123	115	111	108
Projected Municipal Water Supply								
Existing Municipal Water Supply								
New Well # 1*** Implemented	2006	2005	204	183	165	148	134	120
Projected Total Municipal Water Supply			204	183	165	148	134	120
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
* Texas Commission on Environmental Quality; Water System Data Sheets, 2008.								
** Not Available.								
*** Implemented from 2011 Regional Water Plan.								
NA means not available.								
¹ Value represents total municipal need after implementation of Well #1.								
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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)
Projected Municipal Water Demand	Lubbock	Brazos	907	889	870	849	837	836
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			40--160 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			7.80 feet		Drilled	feet	GPM	GPM
Average Annual Water Level Decline.			0.78 feet					
Quantity of Water in Storage in 1995: HPUWCD analysis.			16,298 acft		22 wells off-line			
Quantity of Water Used 1995-2004: Reported to TWDB.			8,157 acft		Source: CRMWA			
Quantity of Water Remaining in 2005.			8,141 acft					
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			907	889	870	849	837	836
Projected Municipal Water Supply								
Existing Municipal Water Supply	CRMWA	306 acft/y	1,063	1,063	1,063	1,063	583	583
Projected Total Municipal Water Supply	adjusted	to Post	1,063	1,063	1,063	1,063	583	583
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	254	253
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
* 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.								
¹ Value represents total municipal need.								
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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)
Projected Municipal Water Demand	Hockley	Brazos	69	70	70	68	65	62
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells			Existing Wells *					
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 40 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			3.72 feet		Drilled	feet	GPM	GPM
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					
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			69	70	70	68	65	62
Projected Municipal Water Supply								
Existing Municipal Water Supply			69	70	70	68	65	0
Projected Total Municipal Water Supply			69	70	70	68	65	0
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	62
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
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.								
¹ Value represents total municipal need.								

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)
Projected Municipal Water Demand	Hockley	Colorado	341	350	353	347	332	316
Projected Municipal Water Supply	Ogallala	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: HPUWCD measurements.**			1.33 feet		Drilled	feet	GPM	GPM
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
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			341	350	353	347	332	316
Projected Municipal Water Supply								
Existing Municipal Water Supply			341	0	0	0	0	0
Projected Total Municipal Water Supply			341	0	0	0	0	0
Projected Municipal Water Need (acft/yr)¹	D-S		0	350	353	347	332	316
Water Management Strategies								
Water Conservation Water Management Strategy			24	25	19	14	11	11
New Water Supplies Needed (acft/yr)								
	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.								
¹ Value represents total municipal need.								
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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)
Projected Municipal Water Demand	Lynn	Brazos	492	504	490	478	453	421
Projected Municipal Water Supply	Ogallala	Aquifer						
	CRMWA							
Aquifer Data in Vicinity of Wells			Existing Wells *					
Saturated Thickness -- 1995: HPUWCD analysis.			60 -- 80 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			2.82 feet		Drilled	feet	GPM	GPM
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)
Projected Municipal Water Demand			492	504	490	478	453	421
Projected Municipal Water Supply								
Existing Municipal Water Supply			534	534	534	534	460	460
Projected Total Municipal Water Supply			534	534	534	534	460	460
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	0	0
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
* 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.								
¹ Value represents total municipal need.								
◇◇◇◇								

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)
Projected Municipal Water Demand	Swisher	Red	1,050	1,065	1,072	1,064	1,038	993
Projected Municipal Water Supply	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)
Projected Municipal Water Demand			1,050	1,065	1,072	1,064	1,038	993
Projected Municipal Water Supply								
Existing Municipal Water Supply			663	648	655	647	621	576
Projected Total Municipal Water Supply			663	648	655	647	621	576
Projected Municipal Water Need (acft/yr)¹	D-S		417	417	417	417	417	417
Water Management Strategies								
Water Conservation Water Management Strategy			18	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
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.								
¹ 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)
Projected Municipal Water Demand	Lynn	Brazos	67	68	65	63	60	55
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells *			
Saturated Thickness -- 1995: HPUWCD analysis.			20 -- 40 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			4.13 feet		Drilled	feet	GPM	GPM
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					
	Date Needed	Date Added	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand			67	68	65	63	60	55
Projected Municipal Water Supply								
Existing Municipal Water Supply			67	0	0	0	0	0
Projected Total Municipal Water Supply			67	0	0	0	0	0
Projected Municipal Water Need (acft/yr)¹	D-S		0	68	65	63	60	55
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
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.								
¹ Value represents total municipal need.								
◇◇◇◇								

Table J-51: City of Wolfforth Water Supply and Aquifer Information								
	Location		Years					
	County	River Basin	2010 (acft)	2020 (acft)	2030 (acft)	2040 (acft)	2050 (acft)	2060 (acft)
Projected Municipal Water Demand	Lubbock	Brazos	1,468	1,758	1,822	1,884	1,962	2,006
Projected Municipal Water Supply	Ogallala	Aquifer						
Aquifer Data in Vicinity of Wells					Existing Wells * continued			
Saturated Thickness -- 1995: HPUWCD analysis.			40 -- 60 feet		Date	Depths	Tested	Rated
Decline in Water Level 1996 -- 2006: HPUWCD measurements.**			6.49 feet		Drilled	feet	GPM	GPM
Average Annual Water Level Decline.			0.65 feet		1963	200	30	60
					1963	200	150	125
Quantity of Water in Storage in 1995: HPUWCD analysis.			8,681 acft		1965	200	90	70
Quantity of Water Used 1995-2004: Reported to TWDB.			4,083 acft		1974	200	90	70
Quantity of Water Remaining in 2005.			4,598 acft		1976	203	0	90
					1983	200	100	60
Existing Wells *					1985	200	50	50
Date	Depths	Tested	Rated		1985	200	20	20
Drilled	feet	GPM	GPM		2004	200	75	75
NA	200	150	130		2007	209	200	300
NA	200	60	30		2007	200	200	250
1956	200	200	150		2007	198	200	250
	Date	Date	2010	2020	2030	2040	2050	2060
	Needed	Added	(acft)	(acft)	(acft)	(acft)	(acft)	(acft)
Projected Municipal Water Demand			1,468	1,758	1,822	1,884	1,962	2,006
Projected Municipal Water Supply								
Existing Municipal Water Supply			371	334	300	270	243	219
New Well # 1*** Implemented	2007	2007	1,164	1,048	943	849	764	687
New Well # 2*** Implemented	2011	2007		193	174	157	141	127
New Well # 3*** Implemented	2019	2007		891	802	722	650	585
Projected Total Municipal Water Supply			1,535	2,466	2,219	1,997	1,797	1,618
Projected Municipal Water Need (acft/yr)¹	D-S		0	0	0	0	165	388
Water Management Strategies								
Water Conservation Water Management Strategy			0	0	0	0	0	0
New Water Supplies Needed (acft/yr)								
Well #4****	2047						437	393
* 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.								
**** Needed for 2011 Regional Water Plan.								
NA means not available.								
¹ Value represents total municipal need after implementation of Wells #1, #2, and # 3.								