

Well #	Date First Measured	Water Level @ First Measurement	2003	2007	2008	2003-2008 Change	2007-2008 Change	First-2008 Change
24-64-7681	1/21/2000	19.25	22.10	21.15	17.85	4.25	3.30	1.40
24-64-7781	12/13/1999	36.45	58.42	66.42	61.72	-3.30	4.70	-25.27
27-04-2562	12/3/1969	94.42	96.05	100.92	99.66	-3.61	1.26	-5.24
27-04-3942	11/13/1979	138.80	158.00	164.38	163.30	-5.30	1.08	-24.50
27-05-1641	12/3/1969	93.38	93.42	92.82	92.53	0.89	0.29	0.85
27-05-2351	12/3/1969	93.29	104.35	111.40	108.58	-4.23	2.82	-15.29
27-05-3891	1/6/2000	86.20	93.82	102.97	103.97	-10.15	-1.00	-17.77
27-06-1241	12/3/1969	96.08	104.25	109.58	110.10	-5.85	-0.52	-14.02
27-06-1983	1/5/2000	82.23	91.10	95.31	95.83	-4.73	-0.52	-13.60
27-06-2231	12/16/1994	101.90	116.85	122.04	122.70	-5.85	-0.66	-20.80
27-07-1761	12/3/1969	96.71	87.36	94.72	95.86	-8.50	-1.14	0.85
27-07-2161	12/13/1999	99.55	108.08	114.72	114.85	-6.77	-0.13	-15.30
27-07-2231	1/12/1979	74.35	86.32	90.37	90.21	-3.89	0.16	-15.86
27-07-3581	4/20/1968	84.27	80.62	86.68	87.10	-6.48	-0.42	-2.83
27-08-2741	1/11/2001	81.87	90.95	93.33	92.90	-1.95	0.43	-11.03

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SOUTH PLAINS UNDERGROUND WATER
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In this issue

- 2008 Water Level Measurements
- Locations of Water Level Measurement Wells
- Water Level Changes—A Broader Perspective

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GROUNDWATER SOUTH PLAINS NEWS

MAY 2008 VOLUME 15, NUMBER 3

2008 Water Level Measurements

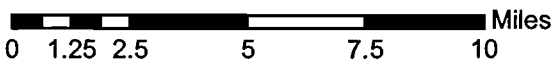
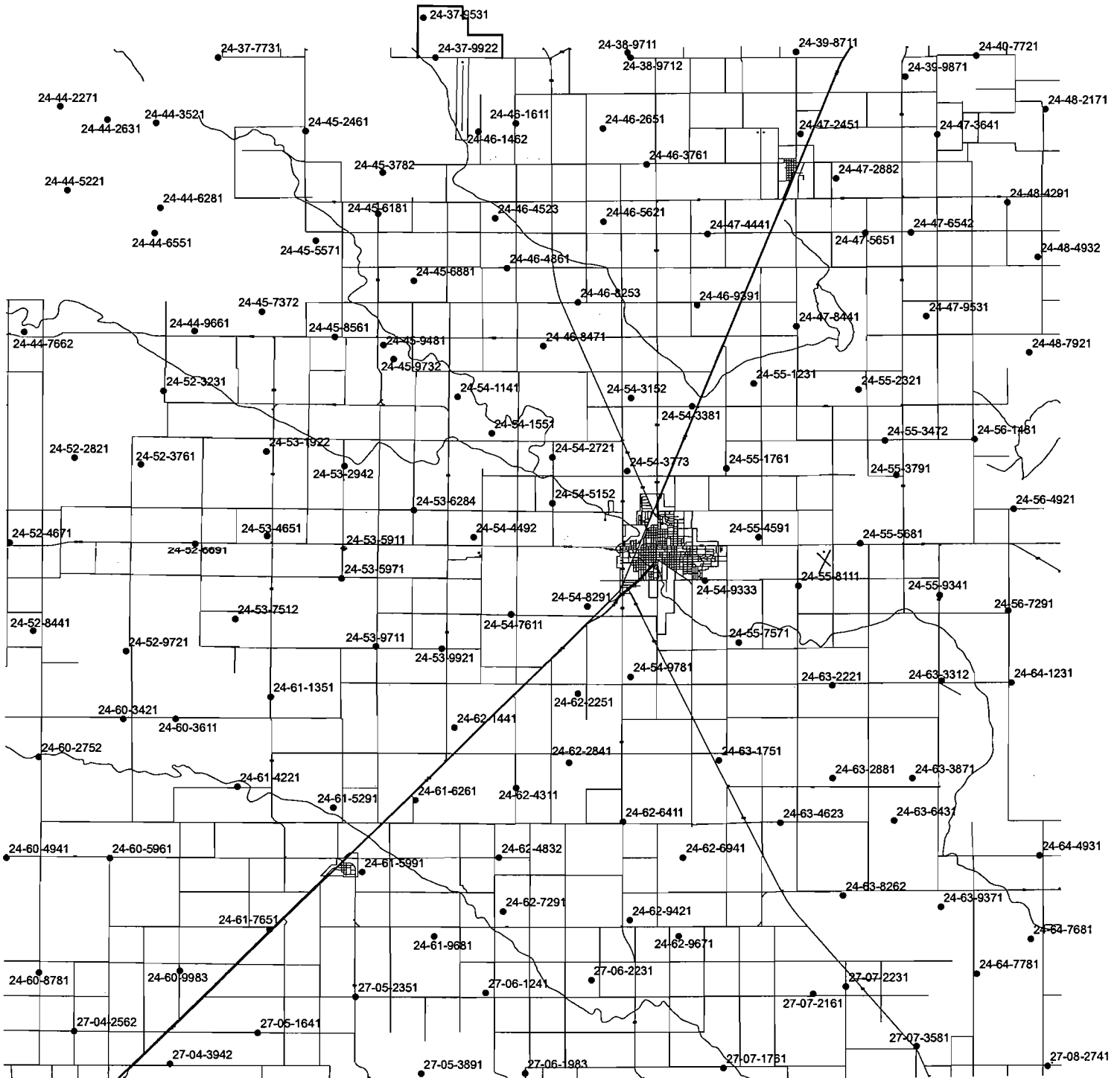
This issue of the *South Plains Groundwater News* contains a list of water level measurements, and includes the most recent 2008 measurements taken during the past winter. For each water level measurement well, the first water level measurement and the corresponding date are listed. Also, each well's 2003, 2007 and 2008 measurements are included. The change in water levels for 2003-2008, 2007-2008 and the first-2008 time periods are noted. The insert contains a map of the District's observation well locations. Also included is a summary of water level changes for other counties in Groundwater Management Area #2. The District average water level change for 2008 is +1.19 feet in the Ogallala aquifer.

Well #	Date First Measured	Water Level @ First Measurement	2003	2007	2008	2003-2008 Change	2007-2008 Change	First-2008 Change
24-37-7731	1/9/2002	146.50	146.50	147.65	147.78	-1.28	-0.13	-1.28
24-37-9531	2/9/2001	133.45	132.90	132.33	132.47	0.43	-0.14	0.98
24-37-9922	2/9/2001	125.81	126.44	126.52	126.39	0.05	0.13	-0.58
24-38-9711	1/4/1996	88.40	89.47	91.66	91.26	-1.79	0.40	-2.86
24-38-9722	1/12/1976	91.30	85.88	87.73	84.52	1.36	3.21	6.78
24-39-8711	1/10/2000	70.58	72.90	74.28	72.16	0.74	2.12	-1.58
24-39-9871	1/9/1975	56.30	53.49	46.15	38.40	15.09	7.75	17.90
24-40-7721	1/12/1976	66.19	97.15	101.12	91.13	6.02	9.99	-24.94
24-44-2271	2/7/1994	173.90	174.61	175.10	175.00	-0.39	0.10	-1.10
24-44-2631	2/7/1994	158.30	161.18	162.39	161.79	-0.61	0.60	-3.49
24-44-3521	1/11/1977	165.20	171.90	173.21	173.05	-1.15	0.16	-7.85
24-44-5221	2/7/1994	159.30	158.85	158.95	158.75	0.10	0.20	0.55
24-44-6281	2/7/1994	159.30	158.94	158.75	158.68	0.26	0.07	0.62
24-44-6551	1/7/2000	169.47	168.98	168.47	168.17	0.81	0.30	1.30
24-44-7662	3/13/2003	30.68	30.68	27.35	26.16	4.52	1.19	4.52
24-44-9661	1/14/2000	133.10	133.33	134.19	133.99	-0.66	0.20	-0.89
24-45-2461	4/20/1968	143.85	150.50	152.09	152.29	-1.79	-0.20	-8.44
24-45-3782	10/17/1979	170.70	141.17	141.33	141.70	-0.53	-0.37	29.00
24-45-5571	10/17/1946	148.50	156.92	159.85	161.10	-4.18	-1.25	-12.60
24-45-6181	12/2/1969	162.75	165.17	168.57	169.07	-3.90	-0.50	-6.32
24-45-6881	1/12/2000	155.20	159.16	162.09	162.19	-3.03	-0.10	-6.99
24-45-7372	3/24/2006	157.30		157.58	159.38	na	-1.80	-2.08
24-45-8561	1/12/1976	136.49	136.20	139.18	139.49	-3.29	-0.31	-3.00
24-45-9481	1/11/1974	127.38	129.42	131.68	131.75	-2.33	-0.07	-4.37
24-45-9732	1/16/1973	119.84	121.08	122.72	122.30	-1.22	0.42	-2.46

Well #	Date First Measured	Water Level @ First Measurement	2003-2008			2007-2008			First-2008		
			2003	2007	2008	Change	Change	Change	Change	Change	
24-46-1462	1/12/1976	123.20	122.38	125.10	125.12	-2.74	-0.02	-1.92			
24-46-1611	4/28/1968	123.65	119.78	122.53	121.10	-1.32	1.43	2.55			
24-46-2651	1/12/2000	98.20	103.66	104.88	102.61	1.05	2.27	-4.41			
24-46-3761	11/14/1979	115.36	84.97	85.45	85.10	-0.13	0.35	30.26			
24-46-4523	2/12/2007	138.00		138.00	138.14	na	-0.14	-0.14			
24-46-4861	2/10/1994	135.10	148.65	151.99	152.01	-3.36	-0.02	-16.91			
24-46-5621	1/11/2001	84.80	86.07	88.50	88.54	-2.47	-0.04	-3.74			
24-46-8253	1/12/1976	135.61	147.47	149.43	149.15	-1.68	0.28	-13.54			
24-46-8471	1/11/1974	122.24	136.32	145.73	145.12	-8.80	0.61	-22.88			
24-46-9391	2/18/1994	80.65	87.80	88.42	86.84	0.96	1.58	-6.19			
24-47-2451	3/9/1978	65.46	71.58	68.25	65.89	5.69	2.36	-0.43			
24-47-2882	1/11/1974	92.29	91.45	101.55	96.04	-4.59	5.51	-3.75			
24-47-3641	11/15/1979	64.34	64.72	63.00	55.95	8.77	7.05	8.39			
24-47-4441	11/14/1979	79.10	78.13	85.28	83.32	-5.19	1.96	-4.22			
24-47-5651	10/18/1979	72.40	70.65	73.15	66.32	4.33	6.83	6.08			
24-47-6542	12/2/1969	101.44	82.92	85.60	82.77	0.15	2.83	18.67			
24-47-8441	3/13/2001	34.25	35.83	33.52	30.39	5.44	3.13	3.86			
24-47-9531	3/13/2001	56.59	56.96	54.58	53.73	3.23	0.85	2.86			
24-48-2171	1/15/2001	97.55	99.82	103.75	100.30	-0.48	3.45	-2.75			
24-48-4291	1/9/1975	90.25	82.28	84.67	80.35	1.93	4.32	9.90			
24-48-4932	2/13/2007	68.93		68.93	66.85	na	2.08	2.08			
24-48-7921	1/10/1976	26.54	28.18	28.00	22.03	6.15	5.97	4.51			
24-52-2821	2/28/2003	71.65	71.65	67.88	67.11	4.54	0.77	4.54			
24-52-3231	2/10/1994	109.70	102.90	100.13	98.58	4.32	1.55	11.12			
24-52-3761	12/3/1969	109.87	51.78	48.18	46.25	5.53	1.93	63.62			
24-52-4671	2/3/1999	45.75	53.07	55.48	54.78	-1.71	0.70	-9.03			
24-52-6691	1/17/1979	106.00	84.40	82.15	80.92	3.48	1.23	25.08			
24-52-8441	1/15/1976	86.30	97.95	105.70	105.95	-8.00	-0.25	-19.65			
24-52-9721	2/15/1994	39.55	39.85	39.57	39.97	-0.12	-0.40	-0.42			
24-53-1922	10/17/1979	144.00	138.25	139.40	138.50	-0.25	0.90	5.50			
24-53-2942	1/5/2006	163.21		164.85	164.65	na	0.20	-1.44			
24-53-4651	1/13/1976	109.72	107.00	106.13	105.24	1.76	0.89	4.48			
24-53-5911	1/11/1974	165.36	172.13	175.39	175.29	-3.16	0.10	-9.93			
24-53-5971	2/15/1994	159.20	180.48	183.58	181.70	-1.22	1.88	-22.50			
24-53-6284	1/8/2001	136.82	138.62	138.97	138.45	0.17	0.52	-1.63			
24-53-7512	2/15/1994	39.90	52.00	43.05	39.04	12.96	4.01	0.86			
24-53-9711	1/14/1976	121.24	139.08	140.13	140.95	-1.87	-0.82	-19.71			
24-53-9921	1/13/1976	133.19	148.27	150.84	150.77	-2.50	0.07	-17.58			
24-54-1141	3/30/2006	99.58		100.70	101.19	na	-0.49	-1.61			
24-54-1551	1/13/1976	97.88	102.83	106.00	105.78	-2.95	0.22	-7.90			
24-54-2721	2/14/1994	100.95	120.93	123.10	122.40	-1.47	0.70	-21.45			
24-54-3152	2/18/1994	116.60	131.05	134.10	133.66	-2.61	0.44	-17.06			
24-54-3381	1/3/1979	104.51	113.65	115.50	114.30	-0.65	1.20	-9.79			
24-54-3773	1/15/2002	115.89	116.63	118.37	118.51	-1.88	-0.14	-2.62			
24-54-4492	1/17/1973	106.65	109.77	112.08	110.35	-0.58	1.73	-3.70			
24-54-5152	2/14/1994	78.35	97.70	99.03	99.05	-1.35	-0.02	-20.70			
24-54-7611	2/14/2003	134.90	134.90	135.22	134.14	0.76	1.08	0.76			
24-54-8291	1/14/1976	109.64	115.73	117.27	117.16	-1.43	0.11	-7.52			
24-54-9333	2/15/1994	67.20	93.72	91.78	91.13	2.59	0.65	-23.93			

Well #	Date First Measured	Water Level @ First Measurement	2003-2008			2007-2008			First-2008		
			2003	2007	2008	Change	Change	Change	Change	Change	
24-54-9781	1/12/1974	98.80	119.05	120.11	119.10	-0.05	1.01	-20.30			
24-55-1231	12/2/1969	102.00	96.00	96.06	94.30	1.70	1.76	7.70			
24-55-1761	11/15/1979	93.80	104.72	104.73	103.98	0.74	0.75	-10.18			
24-55-2321	3/19/2003	40.22	40.22	37.38	36.37	3.85	1.01	3.85			
24-55-3472	2/18/1994	22.45	30.05	25.95	24.20	5.85	1.75	-1.75			
24-55-3791	12/1/1969	21.99			21.36	na	na	0.63			
24-55-4591	1/31/1956	73.68	92.48	90.15	88.95	3.53	1.20	-15.27			
24-55-5681	2/18/1994	40.50	56.65	45.07	44.17	12.48	0.90	-3.67			
24-55-7571	12/13/1999	42.10	46.77	44.40	45.03	1.74	-0.63	-2.93			
24-55-8111	2/18/1994	46.95	73.10	65.32	62.33	10.77	2.99	-15.38			
24-55-9341	2/18/1994	7.80	31.78	27.90	25.08	6.70	2.82	-17.28			
24-56-1481	2/18/1994	21.25	29.47	23.80	19.75	9.72	4.05	1.50			
24-56-4921	10/18/1979	23.10	11.43	7.60	5.85	5.58	1.75	17.25			
24-56-7291	2/12/2007	8.53		8.53	7.61	na	0.92	0.92			
24-60-2752	1/6/2000	10.70	17.30	15.27	16.19	1.11	-0.92	-5.49			
24-60-3421	12/3/1969	84.62	66.68	68.81	68.57	-1.89	0.24	16.05			
24-60-3611	2/15/1994	57.45	73.38	74.70	73.91	-0.53	0.79	-16.46			
24-60-4941	1/19/1995	34.10	42.33	44.45	43.03	-0.70	1.42	-8.93			
24-60-5961	1/8/1976	89.38	89.95	93.65	89.53	0.42	4.12	-0.15			
24-60-8781	2/15/1994	95.40	108.45	114.11	113.43	-4.98	0.68	-18.03			
24-60-9983	1/6/2000	124.12	122.30	123.50	123.14	-0.84	0.36	0.98			
24-61-1351	2/9/2001	15.20	16.98	11.02	12.45	4.53	-1.43	2.75			
24-61-4221	1/8/1976	43.38	28.85	26.85	25.05	3.80	1.80	18.33			
24-61-5291	2/15/1994	27.15	30.70	28.45	26.94	3.76	1.51	0.21			
24-61-5991	1/21/2000	70.90	71.62	71.33	70.83	0.79	0.50	0.07			
24-61-6261	1/16/1979	96.70	80.05	88.00	88.72	-8.67	-0.72	7.98			
24-61-7651	1/10/1979	125.46	127.60	127.09	125.29	2.31	1.80	0.17			
24-61-9681	11/15/1979	85.65	107.45	110.63	109.73	-2.28	0.90	-24.08			
24-62-1441	1/8/1975	129.13	151.35	155.52	155.45	-4.10	0.07	-26.32			
24-62-2251	2/14/1994	102.30	119.83	125.70	125.60	-5.77	0.10	-23.30			
24-62-2841	2/24/1994	116.15	140.54	147.21	147.30	-6.76	-0.09	-31.15			
24-62-4311	2/14/1994	113.48	138.25	141.41	140.83	-2.58	0.58	-27.35			
24-62-4832	2/14/1994	109.85	130.25	131.67	128.83	1.42	2.84	-18.98			
24-62-6411	12/1/1969	117.20	126.70	131.62	132.39	-5.69	-0.77	-15.19			
24-62-6941	1/5/2000	105.00	111.67	115.34	114.75	-3.08	0.59	-9.75			
24-62-7291	10/16/1979	90.30	98.51	99.55	100.23	-1.72	-0.68	-9.93			
24-62-9421	10/16/1979	98.70	121.00	123.62	121.33	-0.33	2.29	-22.63			
24-62-9671	12/1/1969	94.92	90.68	94.85	94.70	-4.02	0.15	0.22			
24-63-1751	12/1/1969	41.76	47.92	51.35	48.32	-0.40	3.03	-6.56			
24-63-2221	1/15/1976	28.25	39.40	35.62	35.33	4.07	0.29	-7.08			
24-63-2881	11/12/1979	21.06	43.17	40.47	37.66	5.51	2.81	-16.60			
24-63-3312	1/4/2000	18.90	23.20	22.05	21.90	1.30	0.15	-3.00			
24-63-3871	1/9/1976	39.76	71.55	70.80	69.00	2.55	1.80	-29.24			
24-63-4623	2/15/1994	20.80	52.13	51.87	43.67	8.46	8.20	-22.87			
24-63-6431	2/15/1994	23.35	67.10	65.50	62.19	4.91	3.31	-38.84			
24-63-8262	1/9/1995	41.75	88.26	89.58	88.58	-0.32	1.00	-46.83			
24-63-9371	12/13/1999	46.95	65.40	68.71	66.08	-0.68	2.63	-19.13			
24-64-1231	1/15/1976	8.16	8.87	3.72	4.42	4.45	-0.70	3.74			
24-64-4931	2/14/2003	19.08	19.08	15.02	13.40	5.68	1.62	5.68			

South Plains Underground Water Conservation District



Locations of Water Level Measurement Wells

Table 1—Average Water Level Change for GMA #2 Counties (Ogallala Aquifer)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Armstrong	0.42	0.46	0.55	0.49	0.55	0.54	0.72	0.69	0.67	0.55	0.72
Bailey	-0.53	-0.62	-0.44	-0.43	-0.33	-0.27	-0.25	0.26	-0.15	-0.12	-0.32
Castro	-1.76	-1.92	-1.67	-1.79	-1.67	-1.61	-1.33	-1.13	-1.40	-1.21	-1.92
Cochran	-0.74	-0.80	-0.72	-0.74	-0.62	-0.62	-0.68	-0.33	-0.64	-0.39	-0.13
Crosby	-0.50	-0.56	-0.37	-0.14	-0.08	-0.16	0.07	0.09	-0.54	-0.75	0.33
Dawson	-0.45	-3.50	-2.17	-0.76	-2.43	-1.92	-2.41	0.93	-1.35	-1.22	1.92
Deaf Smith	-0.40	-0.36	-0.26	-0.30	-0.32	-0.42	-0.25	-0.02	-0.24	-0.21	-0.48
Floyd	-0.63	-0.78	-0.62	-0.53	-0.39	-0.41	-0.45	-0.15	-0.79	-1.02	0.54
Gaines	-1.50	-3.80	0.20	-1.30	-2.50	-1.20	-3.30	1.00	-0.90	-1.20	-0.40
Garza						-2.40	-2.40	2.20	0.20	-1.61	1.50
Hale	-1.56	-1.67	-1.46	-1.43	-1.30	-1.31	-0.94	-0.54	-1.39	-1.51	-0.65
Hockley	-0.50	-0.55	-0.41	-0.50	-0.42	-0.46	-0.47	-0.26	-0.61	-0.83	0.61
Howard						0.92	0.54	2.18	0.24	-0.46	1.25
Lamb	-1.37	-1.39	-1.24	-1.23	-1.24	-1.20	-1.02	-0.64	-0.93	-0.75	-0.97
Lubbock	-0.50	-0.61	-0.50	-0.44	-0.42	-0.35	-0.28	-0.18	-0.71	-1.30	0.82
Lynn	-0.36	-0.52	-0.22	-0.23	-0.06	0.10	0.35	0.99	-0.36	-1.03	1.62
Martin						1.32	1.17	1.24	-1.57	0.04	0.68
Parmer	-1.64	-1.60	-1.43	-1.45	-1.40	-1.31	-1.12	-0.65	-1.27	-1.14	-1.93
Potter	-0.03	-0.01	-0.04	0.29	0.50	-0.04	0.31	0.11	-0.09	-0.12	-0.04
Randall	0.07	0.04	0.02	0.08	-0.04	-0.07	-0.03	0.08	-0.05	-0.18	-0.12
Terry	-0.95	-3.13	-1.79	-1.65	-1.38	-1.45	-1.46	1.09	0.33	-1.06	1.19
Yoakum	-0.01	-2.40	-0.90	-1.90	-1.10	-1.40	-1.10	-0.50	-0.90	-0.80	0.10
<i>Yearly Avg.</i>	<i>-0.68</i>	<i>-1.25</i>	<i>-0.71</i>	<i>-0.73</i>	<i>-0.77</i>	<i>-0.62</i>	<i>-0.65</i>	<i>0.29</i>	<i>-0.57</i>	<i>-0.74</i>	<i>0.20</i>

WATER LEVEL CHANGES—A BROADER PERSPECTIVE

Since 2005, changes to Texas Law now require joint planning for desired future conditions of aquifers. The planning process is conducted by groundwater conservation districts (gcds) located within designated groundwater management areas (GMAs). This process has been discussed in previous articles of this newsletter.

The gcds located in GMA #2 include: Garza UWCD, High Plains UWCD, Llano Estacado UWCD, Mesa UWCD, Permian Basin UWCD, Sandy Land UWCD and South Plains UWCD. These gcds cover all or parts of 22 counties shown in Table 1.

Because the planning process covers a large area, it is important that participants understand the varying conditions across the GMA. A key data set that is useful for this process includes water level changes.

Already, members of GMA #2 have analyzed the data from Table 1 when considering various goals for the desired future conditions of the Ogallala. The data represents the average change in water levels for the Ogallala aquifer within the various counties. Based on the size of the counties, as well as other factors, the number of observation wells varies.

The reason that the selected years are shown is because this time period includes the most reliable data. Specifically, this time period includes the years where most irrigable acres are developed, and are irrigated using the most modern methods. Years where data is not adequate for this exercise are left blank.

This process of adopting a desired future condition for the aquifers must be completed by September 1, 2010. Currently, the members are analyzing the model results of several scenarios, which include -1 foot and -2 feet of change per year. The information resource for GMA #2 is www.gma2.org. Interested parties are encouraged to visit the web site for additional information. 