

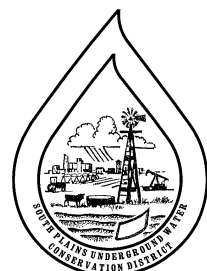
Well #	Date First Measured	Water Level @ First Measurement	1999-2004			2004-2005			First-2005		
			1999	2004	2005	Change	Change	Change	Change	Change	Change
24-64-1591	12/13/1999	57.10		57.23	56.80	na	0.43	0.30			
24-64-4931	2/14/2003	19.08		20.48	10.71	na	9.77	8.37			
24-64-7681	1/21/2000	19.25		22.28	16.86	na	5.42	2.39			
24-64-7781	12/13/1999	36.45		60.15	61.45	na	-1.30	-25.00			
27-04-201	12/3/1969	94.42	93.55	94.78	96.84	-1.23	-2.06	-2.42			
27-04-310	11/13/1979	138.80	148.60	162.10	160.87	-13.50	1.23	-22.07			
27-05-101	12/3/1969	93.38	88.10	93.75	92.73	-5.65	1.02	0.65			
27-05-201	12/3/1969	93.29	90.20	107.25	108.73	-17.05	-1.48	-15.44			
27-05-3891	1/6/2000	86.20		97.47	100.73	na	-3.26	-14.53			
27-06-101	12/3/1969	96.08	93.40	106.63	108.57	-13.23	-1.94	-12.49			
27-06-1983	1/5/2000	82.23		93.83	94.57	na	-0.74	-12.34			
27-06-2231	12/16/1994	101.90	109.90	118.88	119.68	-8.98	-0.80	-17.78			
27-07-101	12/3/1969	96.71	69.30	90.51	92.39	-21.21	-1.88	4.32			
27-07-201	1/12/1979	74.35		87.62	88.48	na	-0.86	-14.13			
27-07-2161	12/13/1999	99.55		112.31	111.44	na	0.87	-11.89			
27-07-301	4/20/1968	84.27	60.10	83.04	84.58	-22.94	-1.54	-0.31			
27-08-2741	1/11/2001	81.87		93.25	93.41	na	-0.16	-11.54			

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- *Water Level Change Analysis*
- *2005 Water Level Measurements*

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GROUNDWATER SOUTH PLAINS NEWS

AUGUST 2005 VOLUME 12, NUMBER 4

2005 Water Level Measurements

This issue of the "South Plains Groundwater News" contains a list of water level measurements, and includes the most recent 2005 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 1999, 2004 and 2005 measurements are included. Finally, the change in water levels for 1999-2004, 2004-2005 and the first-2005 time periods are noted. The map insert shows the locations of the wells and also contains an analysis of the changes in water levels.

Well #	Date		Water Level			1999-2004 Change	2004-2005 Change	First-2005 Change
	First Measured	@ First Measurement	1999	2004	2005			
24-37-7731	1/9/2002	146.50		147.00	147.24	na	-0.24	-0.74
24-37-9531	2/9/2001	133.45		132.83	132.32	na	0.51	1.13
24-37-9922	2/9/2001	125.81		126.97	126.53	na	0.44	-0.72
24-38-901	1/12/1976	91.30	85.90	89.32	84.95	-3.42	4.37	6.35
24-38-9711	1/4/1996	88.40	90.90	94.40	88.50	-3.50	5.90	-0.10
24-39-8711	1/10/2000	70.58		75.57	74.14	na	1.43	-3.56
24-39-904	1/9/1975	56.30	49.60	56.62	53.77	-7.02	2.85	2.53
24-40-701	1/12/1976	66.19	86.70	100.75	98.44	-14.05	2.31	-32.25
24-44-2271	2/7/1994	173.91	74.10	174.70	174.94	-0.60	-0.24	-1.04
24-44-2631	2/7/1994	158.30	160.75	162.26	161.68	-1.51	0.58	-3.38
24-44-301	1/11/1977	165.20	171.30	174.37	172.18	-3.07	2.19	-6.98
24-44-5221	2/7/1994	159.30	159.80	159.05	158.96	0.75	0.09	0.34
24-44-6291	2/7/1994	159.30	158.90	158.84	158.83	0.06	0.01	0.47
24-44-6551	1/7/2000	169.47		168.83	168.57	na	0.26	0.90
24-44-7662	3/13/2003	30.68		31.32	28.83	na	2.49	1.85
24-44-9661	1/14/2000	133.15		133.64	133.83	na	-0.19	-0.68
24-45-201	4/20/1968	143.85	149.90	150.97	151.32	-1.07	-0.35	-7.47
24-45-301	10/17/1979	170.70		141.19	141.36	na	-0.17	29.34
24-45-4971	1/20/2000	160.35		161.55	162.30	na	-0.75	-1.95
24-45-501	10/17/1946	148.50	151.20	159.35	157.64	-8.15	1.71	-9.14
24-45-602	12/2/1969	162.75	161.00	166.42	166.87	-5.42	-0.45	-4.12
24-45-6881	1/12/2000	155.20		160.35	160.35	na	0.00	-5.15
24-45-801	1/12/1976	136.49	133.70	137.21	138.02	-3.51	-0.81	-1.53
24-45-901	1/11/1974	127.38	126.50	131.00	130.60	-4.50	0.40	-3.22
24-45-902	1/16/1973	119.84	118.60	121.69	121.00	-3.09	0.69	-1.16
24-46-101	4/28/1968	123.65	117.50	121.47	120.15	-3.97	1.32	3.50
24-46-102	1/12/1976	123.20	119.50	123.60	123.29	-4.10	0.31	-0.09
24-46-2651	1/12/2000	98.20		102.44	103.00	na	-0.56	-4.80

Well #	Date First Measured	Water Level @ First Measurement	1999-2004			2004-2005			First-2005		
			1999	2004	2005	Change	Change	Change	Change	Change	Change
24-46-303	11/14/1979	115.36	83.90	85.73	85.45	-1.83	0.28	29.91			
24-46-4561	1/12/2000	95.41		97.60	99.02	na	-1.42	-3.61			
24-46-4861	2/10/1994	135.10	143.80	149.62	149.57	-5.82	0.05	-14.47			
24-46-5621	1/11/2001	84.80		86.82	87.45	na	-0.63	-2.65			
24-46-801	1/11/1974	122.24	127.80	140.15	140.46	-12.35	-0.31	-18.22			
24-46-802	1/12/1976	135.61	142.90	149.20	148.40	-6.30	0.80	-12.79			
24-46-9391	2/18/1994	80.65	85.80	88.44	87.43	-2.64	1.01	-6.78			
24-47-201	3/9/1978	65.46	66.90	75.22	67.94	-8.32	7.28	-2.48			
24-47-202	1/11/1974	92.29	83.00	96.60	95.50	-13.60	1.10	-3.21			
24-47-301	11/15/1979	64.34	59.80	66.45	62.73	-6.65	3.72	1.61			
24-47-402	11/14/1979	79.10	68.80	83.99	80.75	-15.19	3.24	-1.65			
24-47-501	10/18/1979	72.40	65.40	73.57	70.61	-8.17	2.96	1.79			
24-47-601	12/2/1969	101.44	76.30	84.65	83.20	-8.35	1.45	18.24			
24-47-8441	3/13/2001	34.25		36.76	31.58	na	5.18	2.67			
24-47-9531	3/13/2001	56.59		57.16	56.46	na	0.70	0.13			
24-48-2171	1/15/2001	97.55		102.07	101.62	na	0.45	-4.07			
24-48-401	1/9/1975	90.25	76.50	85.00	85.44	-8.50	-0.44	4.81			
24-48-702	1/10/1976	26.54		29.90	27.10	na	2.80	-0.56			
24-48-7651	1/10/2000	22.60		29.30	27.50	na	1.80	-4.90			
24-52-2821	2/28/2003	71.65		70.98	69.64	na	1.34	2.01			
24-52-301	12/3/1969	109.87		52.55	50.06	na	2.49	59.81			
24-52-3231	2/10/1994	109.70	105.20	102.50	101.65	2.70	0.85	8.05			
24-52-4671	2/3/1999	45.75	45.75	53.83	52.99	-8.08	0.84	-7.24			
24-52-601	1/17/1979	106.00	82.20	84.38	84.07	-2.18	0.31	21.93			
24-52-801	1/15/1976	86.30	83.40	103.78	102.80	-20.38	0.98	-16.50			
24-52-9721	2/15/1994	39.55	39.00	40.28	39.95	-1.28	0.33	-0.40			
24-53-101	10/17/1979	144.00	134.20	138.73	138.77	-4.53	-0.04	5.23			
24-53-201	1/13/1976	149.08	157.20	165.73	165.08	-8.53	0.65	-16.00			
24-53-401	1/13/1976	109.72	101.30	109.91	107.83	-8.61	2.08	1.89			
24-53-501	1/11/1974	165.36		174.47	174.90	na	-0.43	-9.54			
24-53-5971	2/15/1994	159.20	174.85	182.32	182.00	-7.47	0.32	-22.80			
24-53-6291	1/8/2001	136.82		139.18	138.65	na	0.53	-1.83			
24-53-7512	2/15/1994	39.90	46.10	50.42	45.31	-4.32	5.11	-5.41			
24-53-901	1/14/1976	121.24	131.40	140.17	140.94	-8.77	-0.77	-19.70			
24-53-902	1/13/1976	133.19	142.60	149.78	150.30	-7.18	-0.52	-17.11			
24-54-101	1/13/1976	97.88		104.86	104.38	na	0.48	-6.50			
24-54-1411	2/14/1994	84.65	86.20	89.58	90.21	-3.38	-0.63	-5.56			
24-54-2721	2/14/1994	100.95	115.30	122.10	122.65	-6.80	-0.55	-21.70			
24-54-301	1/3/1979	104.51		114.70	114.53	na	0.17	-10.02			
24-54-3152	2/18/1994	116.60	126.20	131.86	132.21	-5.66	-0.35	-15.61			
24-54-3773	1/15/2002	115.89		117.35	117.86	na	-0.51	-1.97			
24-54-401	1/17/1973	106.65	98.60	109.41	110.20	-10.81	-0.79	-3.55			
24-54-5152	2/14/1994	78.35	90.50	99.17	98.56	-8.67	0.61	-20.21			
24-54-7611	2/14/2003	134.90		136.75	135.79	na	0.96	-0.89			
24-54-801	1/14/1976	109.64	108.50	116.70	116.72	-8.20	-0.02	-7.08			
24-54-901	1/12/1974	98.80	110.30	119.98	119.60	-9.68	0.38	-20.80			
24-54-9333	2/15/1994	67.20	84.40	95.51	91.07	-11.11	4.44	-23.87			

Well #	Date First Measured	Water Level @ First Measurement	1999-2004			2004-2005			First-2005		
			1999	2004	2005	Change	Change	Change	Change	Change	Change
24-55-101	11/15/1979	93.80		106.34	105.56	na	0.78	-11.76			
24-55-102	12/2/1969	102.00	93.60	96.62	96.02	-3.02	0.60	5.98			
24-55-2321	3/19/2003	40.22		40.85	40.23	na	0.62	-0.01			
24-55-3472	2/18/1994	22.45	27.20	30.82	27.41	-3.62	3.41	-4.96			
24-55-401	1/31/1956	73.68	89.60	94.03	93.10	-4.43	0.93	-19.42			
24-55-5681	2/18/1994	40.50	53.40	56.42	50.36	-3.02	6.06	-9.86			
24-55-7571	12/13/1999	42.10		46.87	47.58	na	-0.71	-5.48			
24-55-8111	2/18/1994	46.95	66.90	72.83	71.90	-5.93	0.93	-24.95			
24-55-9341	2/18/1994	7.80	19.50	33.72	32.33	-14.22	1.39	-24.53			
24-56-1481	2/18/1994	21.25	26.90	30.32	26.74	-3.42	3.58	-5.49			
24-56-403	10/18/1979	23.10	10.80	12.08	4.70	-1.28	7.38	18.40			
24-56-7351	3/27/2002	19.08		20.18	15.38	na	4.80	3.70			
24-60-2752	1/6/2000	10.70		18.00	14.72	na	3.28	-4.02			
24-60-302	12/3/1969	84.62	61.80	68.53	69.04	-6.73	-0.51	15.58			
24-60-3611	2/15/1994	57.45	66.50	75.75	75.15	-9.25	0.60	-17.70			
24-60-4941	1/19/1995	34.10	39.00	44.30	44.19	-5.30	0.11	-10.09			
24-60-501	1/8/1976	89.38	77.60	95.35	92.47	-17.75	2.88	-3.09			
24-60-8781	2/15/1994	95.40	102.00	108.25	110.43	-6.25	-2.18	-15.03			
24-60-9983	1/6/2000	124.12		123.71	122.73	na	0.98	1.39			
24-61-1351	2/9/2001	15.20		17.47	9.31	na	8.16	5.89			
24-61-401	1/8/1976	43.38	21.30	26.90	23.67	-5.60	3.23	19.71			
24-61-5291	2/15/1994	27.15	28.70	31.75	28.50	-3.05	3.25	-1.35			
24-61-5991	1/21/2000	70.90		72.02	72.02	na	0.00	-1.12			
24-61-601	1/16/1979	96.70	74.40	82.50	85.07	-8.10	-2.57	11.63			
24-61-702	1/10/1979	125.46	122.30	128.27	126.64	-5.97	1.63	-1.18			
24-61-901	11/15/1979	85.65	92.30	107.65	109.33	-15.35	-1.68	-23.68			
24-62-103	1/8/1975	129.13	139.90	153.60	153.44	-13.70	0.16	-24.31			
24-62-2251	2/14/1994	102.31	14.80	122.36	123.28	-7.56	-0.92	-20.98			
24-62-2841	2/24/1994	116.15	129.20	142.33	143.26	-13.13	-0.93	-27.11			
24-62-4311	2/14/1994	113.48	127.20	140.05	139.95	-12.85	0.10	-26.47			
24-62-4832	2/14/1994	109.85	122.70	131.32	130.35	-8.62	0.97	-20.50			
24-62-601	12/1/1969	117.21	20.00	128.14	129.23	-8.14	-1.09	-12.03			
24-62-6941	1/5/2000	105.00		113.71	112.50	na	1.21	-7.50			
24-62-701	10/16/1979	90.30	93.60	99.93	99.03	-6.33	0.90	-8.73			
24-62-901	12/1/1969	94.92	83.75	92.50	93.48	-8.75	-0.98	1.44			
24-62-902	10/16/197	98.70	115.10	122.72	119.85	-7.62	2.87	-21.15			
24-63-101	12/1/1969	41.76	32.00	52.15	52.38	-20.15	-0.23	-10.62			
24-63-201	1/15/1976	28.25	29.00	42.58	37.85	-13.58	4.73	-9.60			
24-63-202	11/12/1979	21.06	31.40	44.80	43.25	-13.40	1.55	-22.19			
24-63-2143	12/13/1999	12.30		14.45	10.05	na	4.40	2.25			
24-63-301	1/9/1976	39.76	54.30	73.07	72.65	-18.77	0.42	-32.89			
24-63-3312	1/4/2000	18.90		24.60	22.85	na	1.75	-3.95			
24-63-4623	2/15/1994	20.80	35.30	55.93	50.54	-20.63	5.39	-29.74			
24-63-6431	2/15/1994	23.35	44.70	69.29	66.32	-24.59	2.97	-42.97			
24-63-8262	1/19/1995	41.75	76.70	90.50	90.59	-13.80	-0.09	-48.84			
24-63-9371	12/13/1999	46.95		68.58	68.65	na	-0.07	-21.70			
24-64-101	1/15/1976	8.16	8.60	8.02	1.08	0.58	6.94	7.08			

WATER LEVEL CHANGE ANALYSIS

1998-2003

Decline (ft)	Number of Wells	% of wells in this category
>20	7	7.7%
15-20	8	8.8%
10-15	24	26.4%
5-10	27	29.7%
0-5	20	21.9%
no decline*	<u>5</u>	<u>5.5%</u>
Totals	91	100.0%

2003-2004

Decline (ft)	Number of Wells	% of wells in this category
>5	4	2.9%
4-5	4	2.9%
3-4	10	7.2%
2-3	22	15.8%
1-2	40	28.8%
0-1	43	30.9%
no decline*	<u>16</u>	<u>11.5%</u>
Totals	139	100.0%

1999-2004

Decline (ft)	Number of Wells	% of wells in this category
>20	6	6.5%
15-20	5	5.4%
10-15	14	15.2%
5-10	37	40.2%
0-5	26	28.3%
no decline*	<u>4</u>	<u>4.4%</u>
Totals	92	100.0%

2004-2005


Decline (ft)	Number of Wells	% of wells in this category
>5	0	0%
4-5	0	0%
3-4	1	0.7%
2-3	3	2.1%
1-2	8	5.8%
0-1	36	25.9%
no decline*	<u>91</u>	<u>65.5%</u>
Totals	139	100.0%

*Note: Some of the wells in the "no decline" category may also represent a rise in water levels

Where's the Decline?

Water Level Change	2004 Acres	2005 Acres
-6	5,433.36	0
-5	14,839.16	0
-4	36,591.19	567.60
-3	98,389.58	6,503.09
-2	182,832.21	33,178.57
-1	102,527.66	40,298.07
-0.5	71,546.00	81,299.69
Acres (Decline)	<u>512,159.16</u>	<u>161,847.02</u>
Acres (No Decline)	<u>55,541.12</u>	<u>405,853.26</u>
Total Acres	567,700.28	567,700.28

The water level change analysis includes 4 tables representing 4 time periods. Two of the time periods are 5-year increments (1998-2003 and 1999-2004), and two of the time periods are 1-year increments (2003-2004 and 2004-2005). The 1998-2003 table and the 2003-2004 table are reprinted from last year's analysis as a comparison.

Also included in this year's analysis is the table entitled "Where's the Decline?" The information in this table contains the approximate extent covered by a certain water level change. For example, approximately 182,000 acres fell in the category of -2 ft water level change in 2004. Individual and overall results for both years are quite different, due to the exceptional rainfall during 2004. 

Calendar of Events

<i>August 9</i>	<i>Board Meeting 8:30 am District office</i>
<i>Sept. 5</i>	<i>Labor Day Holiday Office Closed</i>
<i>Sept. 6</i>	<i>Board Meeting 8:30 am District office</i>
<i>Sept. 15</i>	<i>Terry County Farm Tour</i>
<i>Oct. 4</i>	<i>Board Meeting 8:30 am District office</i>

