Well #	Date First Measured	Water Level @ First Measurement	2005	2009	2010	2005-2010 Change	2009-2010 Change	First-2010 Change
24-64-1231	1/15/1976	8.16	1.08	3.18	4.57	-3.49	-1.39	3.59
24-64-4931	2/14/2003	19.08	10.71	12.19	19.00	-8.29	-6.81	0.08
24-64-7681	1/21/2000	19.25	16.86	16.98	18.76	-1.90	-1.78	0.49
24-64-7781	12/13/1999	36.45	61.45	66.51	69.69	-8.24	-3.18	-33.24
27-04-2562	12/3/1969	94.42	96.84	104.46	103.30	-6.46	1.16	-8.88
27-04-3942	11/13/1979	138.80	160.87	166.86	166.46	-5.59	0.40	-27.66
27-05-1641	12/3/1969	93.38	92.73	92.49	94.29	-1.56	-1.80	-0.91
27-05-2351	12/3/1969	93.29	108.73	108.05	106.50	2.23	1.55	-13.21
27-05-3891	1/6/2000	86.20	100.73	105.19	106.19	-5.46	-1.00	-19.99
27-06-1241	12/3/1969	96.08	108.57	110.36	111.12	-2.55	-0.76	-15.04
27-06-1983	1/5/2000	82.23	94.57	97.80	100.03	-5.46	-2.23	-17.80
27-06-2231	12/16/1994	101.90	119.68	123.69	124.65	-4.97	-0.96	-22.75
27-07-1761	12/3/1969	96.71	92.39	96.32	98.09	-5.70	-1.77	-1.38
27-07-2161	12/13/1999	99.55	111.44	116.54	117.52	-6.08	-0.98	-17.97
27-07-2231	1/12/1979	74.35	88.48	91.83	93.33	-4.85	-1.50	-18.98
27-07-3581	4/20/1968	84.27	84.58	89.23	90.62	-6.04	-1.39	-6.35
27-08-2741	1/11/2001	81.87	93.41	93.18	95.53	-2.12	-2.35	-13.66

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GROUNDWATER SOUTH PLAINS NEWS

MAY 2010 **VOLUME 17, NUMBER 3**

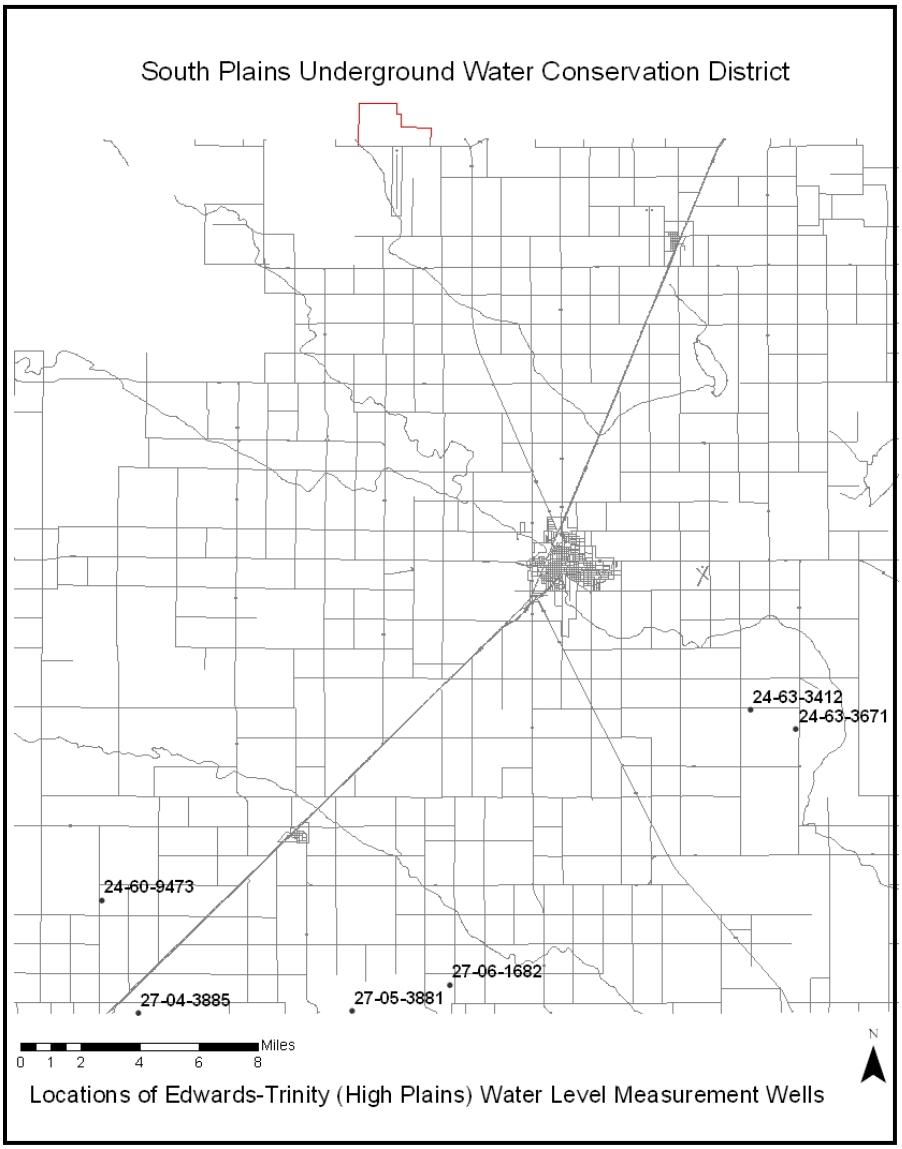
2010 Water Level Measurements

This issue of the *South Plains Groundwater News* contains a list of water level measurements, and includes the most recent 2010 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 2005, 2009 and 2010 measurements are included. The change in water levels for 2005-2010, 2009-2010 and the first-2010 time periods are noted. The insert contains a map of the District's observation well locations. The District average water level change for 2010 is –1.36 feet in the Ogallala aquifer.

Well #	Date First Measured	Water Level @ First Measurement	2005	2009	2010	2005-2010 Change	2009-2010 Change	First-2010 Change
24-37-7731	1/9/2002	146.50	147.24	147.94	148.10	-0.86	-0.16	-1.60
24-37-9531	2/9/2001	133.45	132.32	132.96	133.46	-1.14	-0.50	-0.01
24-37-9922	2/9/2001	125.81	126.53	127.12	127.72	-1.19	-0.60	-1.91
24-38-9711	1/4/1996	88.40	88.50		99.20	-10.70	na	-10.80
24-39-8711	1/10/2000	70.58	74.14	71.56	72.12	2.02	-0.56	-1.54
24-39-9871	1/9/1975	56.30	53.77	42.07	43.82	9.95	-1.75	12.48
24-40-7721	1/12/1976	66.19	98.44	93.07	95.65	2.79	-2.58	-29.46
24-44-2271	2/7/1994	173.90	174.94	175.28	175.13	-0.19	0.15	-1.23
24-44-2631	2/7/1994	158.30	161.68	162.11	161.95	-0.27	0.16	-3.65
24-44-3521	1/11/1977	165.20	172.18	172.34	172.09	0.09	0.25	-6.89
24-44-5221	2/7/1994	159.30	158.96	158.73	158.80	0.16	-0.07	0.50
24-44-6281	2/7/1994	159.30	158.83	159.20	159.41	-0.58	-0.21	-0.11
24-44-6551	1/7/2000	169.47	168.57	168.19	168.38	0.19	-0.19	1.09
24-44-7662	3/13/2003	30.68	28.83	26.53	27.20	1.63	-0.67	3.48
24-44-9661	1/14/2000	133.10	133.83	133.98	133.91	-0.08	0.07	-0.81
24-45-2461	4/20/1968	143.85	151.32	152.83	152.82	-1.50	0.01	-8.97
24-45-3782	10/17/1979	170.70	141.36	142.14	141.63	-0.27	0.51	29.07
24-45-5571	10/17/1946	148.50	157.64	162.62	162.94	-5.30	-0.32	-14.44
24-45-6181	12/2/1969	162.75	166.87	170.11	170.62	-3.75	-0.51	-7.87
24-45-6881	1/12/2000	155.20	160.35	162.64	162.34	-1.99	0.30	-7.14
24-45-7372	3/24/2006	157.30		159.72	159.86	na	-0.14	-2.56
24-45-8561	1/12/1976	136.49	138.02	139.77	139.88	-1.86	-0.11	-3.39
24-45-9732	1/16/1973	119.84	121.00	123.50	124.15	-3.15	-0.65	-4.31
24-46-1462	1/12/1976	123.20	123.29	125.79	125.81	-2.52	-0.02	-2.61

Well #	Date First Measured	Water Level @ First Measurement	2005	2009	2010	2005-2010 Change	2009-2010 Change	First-2010 Change
24-46-1611	4/28/1968	123.65	120.15	121.53	121.58	-1.43	-0.05	2.07
24-46-2651	1/12/2000	98.20	103.00	104.45	103.80	-0.80	0.65	-5.60
24-46-3761	11/14/1979	115.36	85.45	84.20	83.91	1.54	0.29	31.45
24-46-4523	2/12/2007	138.00		138.19	138.55	na	-0.36	-0.55
24-46-4861	2/10/1994	135.10	149.57	153.67	154.87	-5.30	-1.20	-19.77
24-46-5621	1/11/2001	84.80	87.45	88.50	88.30	-0.85	0.20	-3.50
24-46-8253	1/12/1976	135.61	148.40	149.62	150.07	-1.67	-0.45	-14.46
24-46-8471	1/11/1974	122.24	140.46	146.37	147.70	-7.24	-1.33	-25.46
24-46-9391	2/18/1994	80.65	87.43	84.99	86.63	0.80	-1.64	-5.98
24-47-1141	1/12/2010	112.57			112.57	na	na	0.00
24-47-2451	3/9/1978	65.46	67.94	65.97	67.73	0.21	-1.76	-2.27
24-47-2882	1/11/1974	92.29	95.50	97.58	101.60	-6.10	-4.02	-9.31
24-47-3641	11/15/1979	64.34	62.73	55.34	58.30	4.43	-2.96	6.04
24-47-4441	11/14/1979	79.10	80.75	81.68	83.79	-3.04	-2.11	-4.69
24-47-5651	10/18/1979	72.40	70.61	66.00	71.27	-0.66	-5.27	1.13
24-47-6542	12/2/1969	101.44	83.20	82.85	86.72	-3.52	-3.87	14.72
24-47-8441	3/13/2001	34.25	31.58	30.80	33.29	-1.71	-2.49	0.96
24-47-9531	3/13/2001	56.59	56.46	52.75	52.69	3.77	0.06	3.90
24-48-2171	1/15/2001	97.55	101.62	101.32	103.17	-1.55	-1.85	-5.62
24-48-4291	1/9/1975	90.25	85.44	80.31	81.21	4.23	-0.90	9.04
24-48-4932	2/13/2007	68.93		67.54	67.65	na	-0.11	1.28
24-48-7921	1/10/1976	26.54	27.10	22.08	23.94	3.16	-1.86	2.60
24-52-2821	2/28/2003	71.65	69.64	66.44	65.68	3.96	0.76	5.97
24-52-3231	2/10/1994	109.70	101.65	97.00	95.60	6.05	1.40	14.10
24-52-3761	12/3/1969	109.87	50.06	45.80	46.04	4.02	-0.24	63.83
24-52-4671	2/3/1999	45.75	52.99	57.54	60.19	-7.20	-2.65	-14.44
24-52-6691	1/17/1979	106.00	84.07	79.13	79.18	4.89	-0.05	26.82
24-52-8441	1/15/1976	86.30	102.80	107.20	109.05	-6.25	-1.85	-22.75
24-52-9721	2/15/1994	39.55	39.95	39.94	40.50	-0.55	-0.56	-0.95
24-53-1922	10/17/1979	144.00	138.77	137.93	138.15	0.62	-0.22	5.85
24-53-2942	1/5/2006	163.21		164.38	166.05	na	-1.67	-2.84
24-53-4651	1/13/1976	109.72	107.83	106.47	106.67	1.16	-0.20	3.05
24-53-5911	1/11/1974	165.36	174.90	176.48	178.67	-3.77	-2.19	-13.31
24-53-5971	2/15/1994	159.20	182.00	183.70	185.44	-3.44	-1.74	-26.24
24-53-6284	1/8/2001	136.82	138.65	139.98	139.98	-1.33	0.00	-3.16
24-53-7512	2/15/1994	39.90	45.31	39.09	45.82	-0.51	-6.73	-5.92
24-53-9711	1/14/1976	121.24	140.94	141.16	142.25	-1.31	-1.09	-21.01
24-53-9921	1/13/1976	133.19	150.30	151.33	151.85	-1.55	-0.52	-18.66
24-54-1141	3/30/2006	99.58		102.30	102.75	na	-0.45	-3.17
24-54-1551	1/13/1976	97.88	104.38	107.14	107.60	-3.22	-0.46	-9.72
24-54-2721	2/14/1994	100.95	122.65	124.25	125.30	-2.65	-1.05	-24.35
24-54-3152	2/18/1994	116.60	132.21	133.80	134.25	-2.04	-0.45	-17.65
24-54-3381	1/3/1979	104.51	114.53	115.28	116.05	-1.52	-0.77	-11.54
24-54-3773	1/15/2002	115.89	117.86	118.91	119.73	-1.87	-0.82	-3.84
24-54-4492	1/17/1973	106.65	110.20	111.07	113.90	-3.70	-2.83	-7.25
24-54-5152	2/14/1994	78.35	98.56	99.61	100.46	-1.90	-0.85	-22.11
24-54-7611	2/14/2003	134.90	135.79	134.65	134.73	1.06	-0.08	0.17
24-54-8291	1/14/1976	109.64	116.72	117.62	119.19	-2.47	-1.57	-9.55
24-54-9333	2/15/1994	67.20	91.07	94.65	102.08	-11.01	-7.43	-34.88

Well #	Date First Measured	Water Level @ First Measurement	2005	2009	2010	2005-2010 Change	2009-2010 Change	First-2010 Change
24-54-9781	1/12/1974	98.80	119.60	119.56	121.71	-2.11	-2.15	-22.91
24-55-1231	12/2/1969	102.00	96.02	94.42	97.51	-1.49	-3.09	4.49
24-55-1761	11/15/1979	93.80	105.56	105.10	106.83	-1.27	-1.73	-13.03
24-55-2321	3/19/2003	40.22	40.23	36.40	37.53	2.70	-1.13	2.69
24-55-3791	12/1/1969	21.99		21.70	23.47	na	-1.77	-1.48
24-55-4591	1/31/1956	73.68	93.10	89.16	90.86	2.24	-1.70	-17.18
24-55-5681	2/18/1994	40.50	50.36	47.90	53.73	-3.37	-5.83	-13.23
24-55-7571	12/13/1999	42.10	47.58	47.73	48.66	-1.08	-0.93	-6.56
24-55-8111	2/18/1994	46.95	71.90	66.39	70.60	1.30	-4.21	-23.65
24-55-9341	2/18/1994	7.80	32.33	26.52	30.06	2.27	-3.54	-22.26
24-56-1481	2/18/1994	21.25	26.74	21.22	23.98	2.76	-2.76	-2.73
24-56-4921	10/18/1979	23.10	4.70	4.87	8.30	-3.60	-3.43	14.80
24-56-7291	2/12/2007	8.53		5.80	7.55	na	-1.75	0.98
24-60-2751	1/7/2010	38.16			38.16	na	na	0.00
24-60-3421	12/3/1969	84.62	69.04	69.20	70.32	-1.28	-1.12	14.30
24-60-3611	2/15/1994	57.45	75.15	75.72	78.58	-3.43	-2.86	-21.13
24-60-4941	1/19/1995	34.10	44.19	43.80	45.60	-1.41	-1.80	-11.50
24-60-5961	1/8/1976	89.38	92.47	92.50	94.94	-2.47	-2.44	-5.56
24-60-8781	2/15/1994	95.40	110.43	114.17	116.12	-5.69	-1.95	-20.72
24-60-9983	1/6/2000	124.12	122.73	123.13	125.06	-2.33	-1.93	-0.94
24-61-1351	2/9/2001	15.20	9.31	12.42	13.90	-4.59	-1.48	1.30
24-61-4221	1/8/1976	43.38	23.67	25.30	23.98	-0.31	1.32	19.40
24-61-4752	3/5/2010	42.04			42.04	na	na	0.00
24-61-5291	2/15/1994	27.15	28.50	26.50	27.75	0.75	-1.25	-0.60
24-61-5991	1/21/2000	70.90	72.02	70.80	70.52	1.50	0.28	0.38
24-61-6281	1/7/2009	82.14		82.14	83.68	na	-1.54	-1.54
24-61-7651	1/10/1979	125.46	126.64	126.10	127.10	-0.46	-1.00	-1.64
24-61-9681	11/15/1979	85.65	109.33	109.13	110.00	-0.67	-0.87	-24.35
24-62-1441	1/8/1975	129.13	153.44	156.90	158.44	-5.00	-1.54	-29.31
24-62-2251	2/14/1994	102.30	123.28	127.02	128.83	-5.55	-1.81	-26.53
24-62-2841	2/24/1994	116.15	143.26	148.24	149.88	-6.62	-1.64	-33.73
24-62-4311	2/14/1994	113.48	139.95	143.22	144.55	-4.60	-1.33	-31.07
24-62-4832	2/14/1994	109.85	130.35	129.16	130.14	0.21	-0.98	-20.29
24-62-6411	12/1/1969	117.20	129.23	133.20	133.85	-4.62	-0.65	-16.65
24-62-6941	1/5/2000	105.00	112.50	115.78	116.40	-3.90	-0.62	-11.40
24-62-7291	10/16/1979	90.30	99.03	101.08	102.52	-3.49	-1.44	-12.22
24-62-9421	10/16/1979	98.70	119.85	119.04	122.64	-2.79	-3.60	-23.94
24-62-9671	12/1/1969	94.92	93.48	96.00	96.60	-3.12	-0.60	-1.68
24-63-1161	3/4/2010	24.19			24.19	na	na	0.00
24-63-2221	1/15/1976	28.25	37.85	36.73	40.38	-2.53	-3.65	-12.13
24-63-2881	11/12/1979	21.06	43.25	40.30	44.57	-1.32	-4.27	-23.51
24-63-3312	1/4/2000	18.90	22.85	23.10	24.40	-1.55	-1.30	-5.50
24-63-3871	1/9/1976	39.76	72.65	69.70	73.10	-0.45	-3.40	-33.34
24-63-4112	3/4/2010	76.63			76.63	na	na	0.00
24-63-4623	2/15/1994	20.80	50.54	49.45	54.29	-3.75	-4.84	-33.49
24-63-6431	2/15/1994	23.35	66.32	64.35	66.70	-0.38	-2.35	-43.35
24-63-8262	1/9/1995	41.75	90.59	89.17	90.20	0.39	-1.03	-48.45
24-63-9371	12/13/1999	46.95	68.65	70.26	72.07	-3.42	-1.81	-25.12



Locations of Edwards-Trinity (High Plains) Water Level Measurement Wells

Minor Aquifer Water Levels

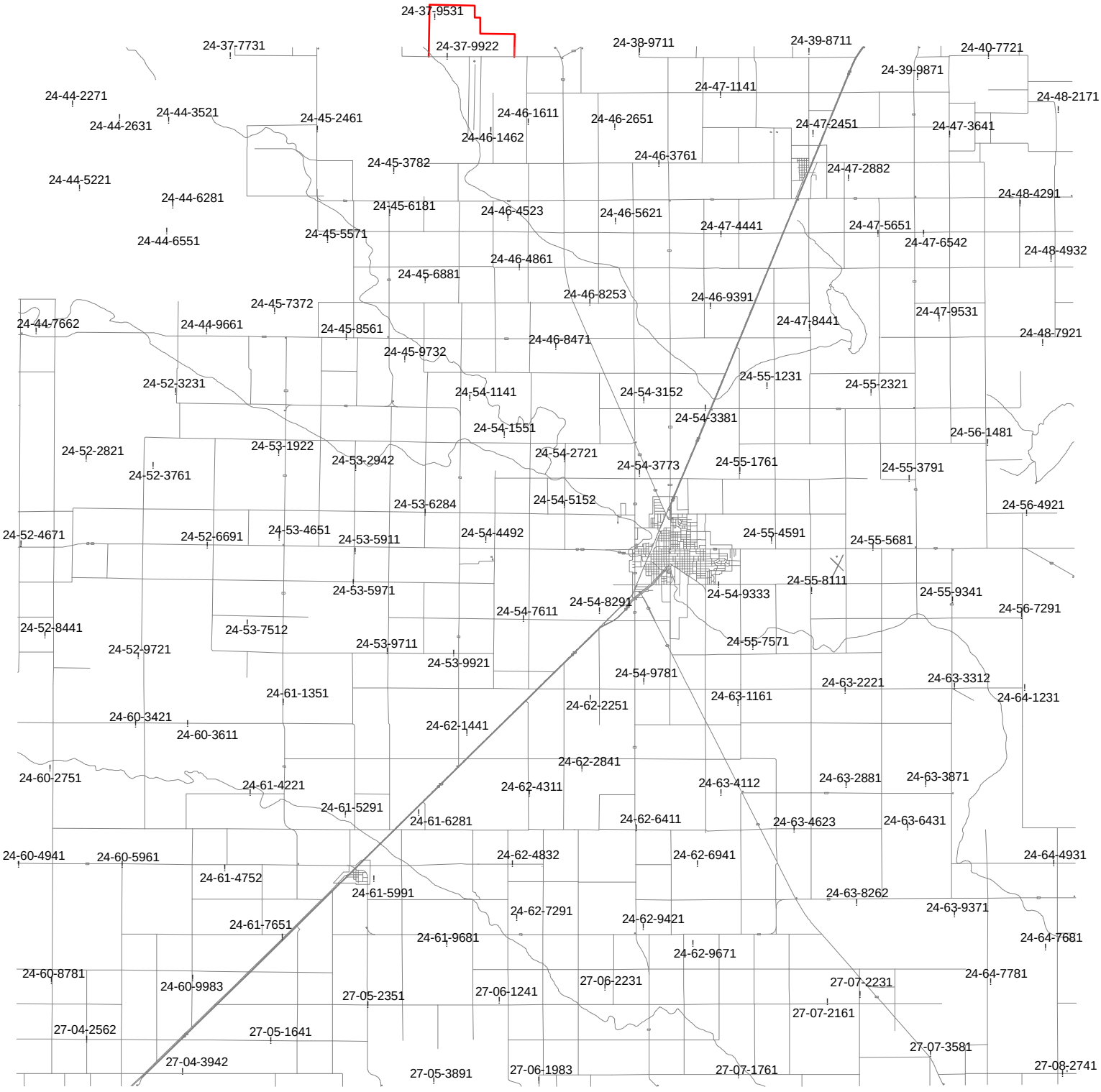
Since 2007, the District has monitored water levels from some wells completed in the Edwards-Trinity (High Plains) aquifer. This minor aquifer is buried below the Ogallala, and is used only in certain areas. Because of declining Ogallala water levels, some well owners have explored this minor aquifer. Due to increasing use of this aquifer, observation wells were designated in 2007. Now that several years of data has been collected, it is included here with the rest of the Ogallala water level data. Although this minor aquifer covers all of the District, it is used primarily in the southern portion of the District. For that reason, the current observation wells are situated along the southern area. If additional wells are installed across new areas, then more observations may be added.

To date, the collected data reveals that water level elevations are quite similar within the Ogallala and Edwards-Trinity (High Plains). In some areas, the two aquifers are separated by very thin confining units, which allows good hydrologic connection between the two. Within other areas, the typical blue or brown clay forming the base of the Ogallala is non-existent due to erosional patterns long ago.

Additional monitoring is planned for on-going study of this resource. Look for this data to be included in annual reports published in this newsletter.

Well #	Date First Measured	Water Level @ First Measurement	2008	2009	2010	2008-2009 Change	2009-2010 Change	2008-2010 Change
24-60-9473	2/22/2007	88.53	91.23	92.26	95.07	-1.03	-2.81	-3.84
24-63-3412	1/18/2007	58.13	58.48	61.33	63.13	-2.85	-1.80	-4.65
24-63-3671	1/18/2007	39.48	37.82	39.63	42.47	-1.81	-2.84	-4.65
27-04-3885	1/18/2007	158.75	159.65	159.27	160.95	0.38	-1.68	-1.30
27-05-3881	1/18/2007	118.26	118.50	121.08	120.80	-2.58	0.28	-2.30
27-06-1682	1/18/2007	119.88	118.23	118.30	121.09	-0.07	-2.79	-2.86

South Plains Underground Water Conservation District



Locations of Water Level Measurement Wells