



Panhandle Water News

JULY 2017

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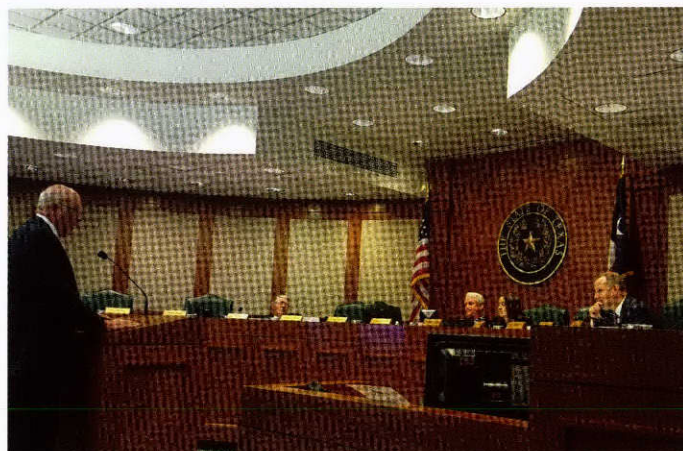
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Texas 85th Legislature Recap

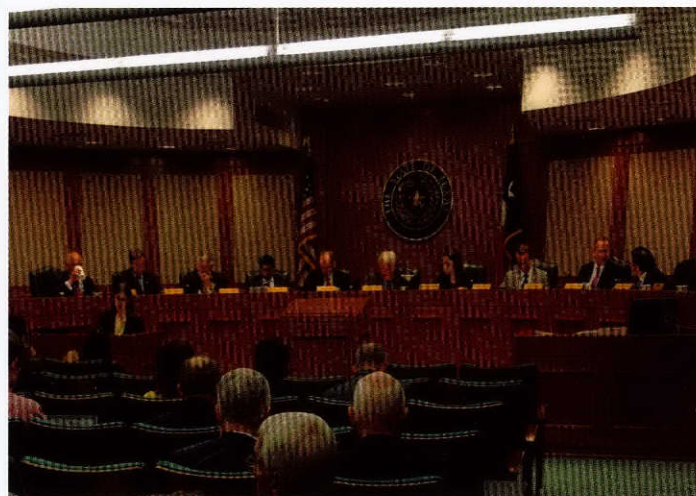
The Texas 85th Legislature Regular Session adjourned May 29, 2017. General Manager C.E. Williams and staff member Peter Winegeart spent a majority of their time in Austin over the past several months tracking many bills relating to groundwater conservation districts.

For most of the session, focus seemed to drift toward social issues, rather than environmental issues, including water. With an interrupted focus, it seems little was accomplished this session. Not only was the focus on the bigger picture of national issues like abortion and the controversial “bathroom bill”, but legislators were also discussing Texas’ government system. Currently Texas operates with more local than statewide control. Some legislators expressed concern with cities and other entities becoming too restrictive, which made for discussion about gaining that control at the Capitol.

Mid-session, Williams and Winegeart were tracking over 50 bills relating to groundwater conservation districts, with a few drawing more interest than others. As session drew to a close, many of those bills died for one reason or another. Williams noted that the legislative system is intentionally designed to be much harder to kill a bill than pass one. Below are a few bills passed that caught the interest of the District.



PGCD General Manager, C.E. Williams, addressing the House Natural Resources Committee.



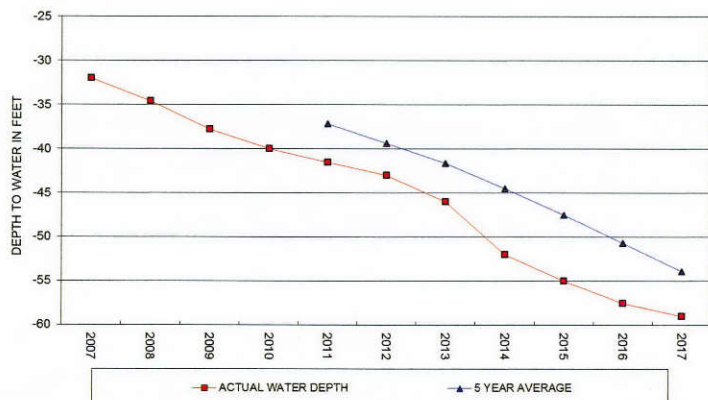
Noteworthy Bills Passed:

- **SB 1511, Effective September 1, 2017** – Introduced by Senator Perry, the bill relates to the state and regional water planning process and also the funding of projects included in the state water plan.
- **HB 3735, Effective September 1, 2017** – Relates to applications for new or amended water rights submitted to the Texas Commission on Environmental Quality.
- **SB 864, Effective Immediately** – Relates to the procedure for obtaining a right to use state surface water if the applicant proposes an alternative source of water that is not state regulated surface water.

Governor Abbott announced a special session beginning on July 18, but environmental issues were not on the agenda. To view all bills filed in the 85th session, visit www.capitol.state.tx.us.



Explanation of 5 Year AVG Change Maps and Charts



Year	Depth	Static Change	5 Year AVG	5 Year AVG Change
2007	-32.0			
2008	-34.6	-2.6		
2009	-37.8	-3.2		
2010	-40.0	-2.2		
2011	-41.5	-1.5	-37.2	
2012	-43.0	-1.5	-39.4	-2.2
2013	-46.0	-3.0	-41.7	-2.3
2014	-52.0	-6.0	-44.5	-2.8
2015	-55.0	-3.0	-47.5	-3.0
2016	-57.5	-2.5	-50.7	-3.2
2017	-59.0	-1.5	-53.9	-3.2

This is how the five year average change is calculated using the sample hydrograph above. The 2016 five year average **-50.7** in red was calculated by summing the 2012-2016 depth to water measurements. This sum was then divided by five to get a five year average of **-50.7** in 2016. The 2017 five year average **-53.9** in blue was calculated by summing the 2013-2017 depth to water measurements. This sum was divided by five to get a five year average of **-53.9** in 2017. The five year average change for 2017 was calculated by subtracting the 2016 five year average **-50.7** from the 2017 five year average **-53.9** to reach a value of **-3.2** in green, which is the value used to contour the maps. If you would like to see a trend analysis for your well, or on an individual well in your area as shown above, please contact the District office at 806-883-2501.

The contour maps in this newsletter show the average change in water level, in feet, of the aquifers in the District. The contour maps were drawn using the difference of the five year averages of 2012-2016 and 2013-2017. All five year average values were calculated using a hydrograph (example shown above). Only the negative values or declines are portrayed on the map and in the tables.

The Dockum and Whitehorse Aquifer maps show only well locations. The charts throughout this newsletter show the depth to water measurements for 2007, 2016 and 2017, differences of the annual and 10 year measurements, and the five year average change, where available for each well.

Ogallala Aquifer Water Level Measurements

Panhandle Groundwater Conservation District takes measurements on a network of 800+ wells throughout the District each year to determine yearly aquifer changes in water levels. The measurements are taken not only to determine the water level in the aquifer, but also to collect data, provide information for future planning and to determine IRS depletion allowances.

The winter water level measurements play a critical role in in gauging our compliance with the 50/50 goal, to have 50 percent of the water remaining in the aquifer 50 years from now, by allowing us to monitor the decline of saturated thickness in the aquifer over the past year.

Knowing the amount of decline drives enforcement of study areas in places where water levels have dropped below the allowed annual 1.25 percent of saturated thickness. When study areas go into place, the landowner is notified and water use is monitored more frequently by the District. If the decline levels improve it can come out of a study area; however, if decline continues to exceed the allowable limit, the study area could be designated a conservation area by the District which may result in reductions of the maximum annual production rate.

Depth to water level measurements shown in this publication were taken from November 2016 to February 2017. The measurements are taken during these winter months when demands for irrigation are lower so that a more representative static water level can be obtained. Every effort is made to capture this measurement when levels have recovered or stabilized.



William F. Mullican III

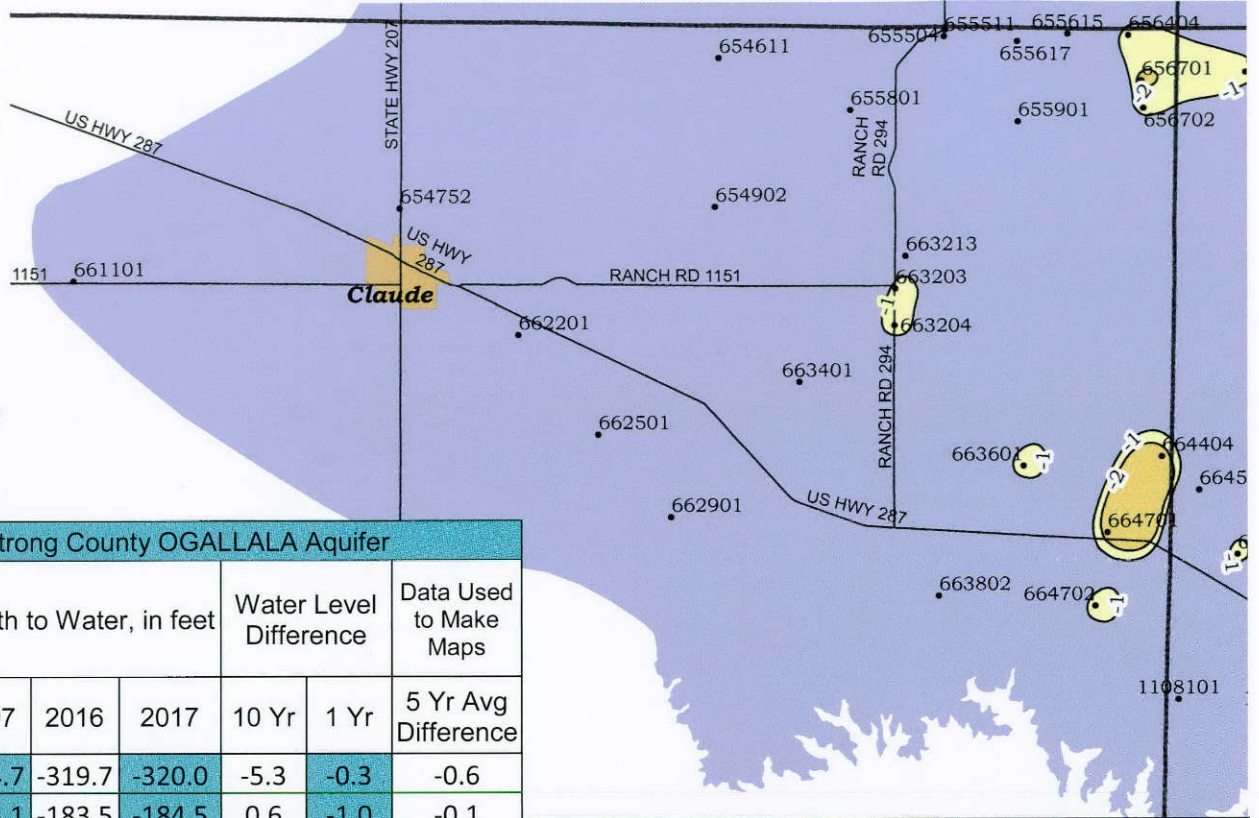
The groundwater-related technical information (*text, maps, and hydrographs*) appearing in this newsletter was reviewed and approved by Professional Geoscientist William F. Mullican III.



Northeast Armstrong County OGALLALA Aquifer 5 Year Average Change

Legend

- Ogallala Wells
 - Counties
 - Ogallala Aquifer
 - Towns
- Contour**
- 8 -- -7
 - 7 -- -6
 - 6 -- -5
 - 5 -- -4
 - 4 -- -3
 - 3 -- -2
 - 2 -- -1
 - 1 - 0
- Roads



Armstrong County OGALLALA Aquifer

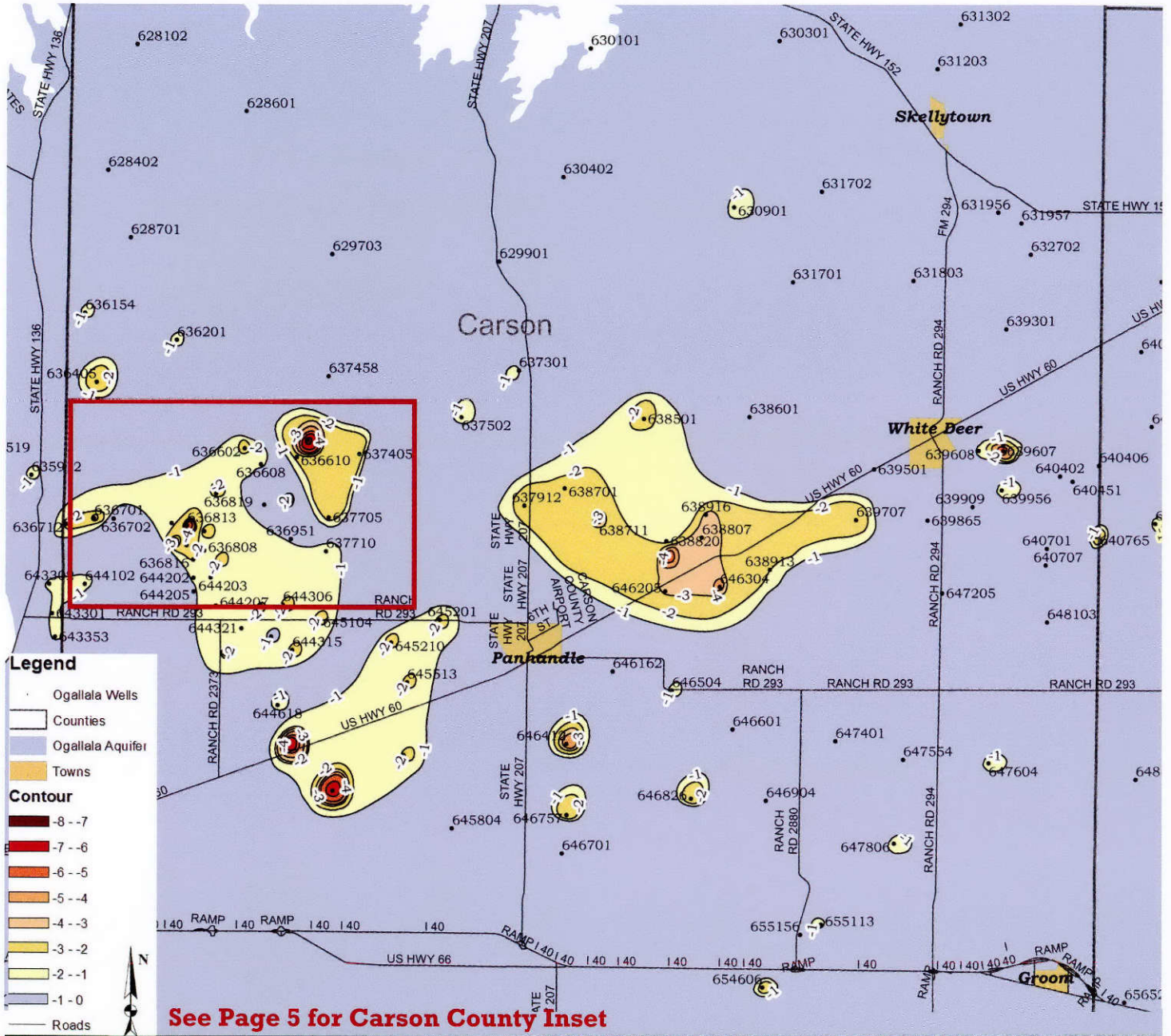
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
654611	-314.7	-319.7	-320.0	-5.3	-0.3	-0.6
654752	-185.1	-183.5	-184.5	0.6	-1.0	-0.1
654902		-316.2	-319.8		-3.6	-0.9
655504		-358.0	-358.2		-0.2	-0.5
655511	-359.5	-351.3	-351.0	8.5	0.3	-0.6
655615	-353.3	-360.5	-361.0	-7.7	-0.5	-0.8
655617	-358.4	-367.4	-359.9	-1.5	7.5	-0.4
655801	-136.6	-140.3	-140.3	-3.7	0.0	-0.8
655901	-259.8	-250.4	-249.9	9.9	0.5	-0.5
656404	-345.7	-358.7	-358.2	-12.5	0.5	-1.5
656701	-345.3	-360.5	-360.5	-15.2	0.0	-2.2
656702	-335.7	-341.5	-343.8	-8.1	-2.3	-1.4
661101	-153.5	-153.4	-153.5	0.0	-0.1	-0.2
662201	-187.5	-186.5	-188.2	-0.7	-1.7	-0.3
662501	-186.2	-182.2	-183.5	2.7	-1.3	0.0
662901	-222.3	-218.2	-220.3	2.0	-2.1	-0.2
663203	-174.8	-196.6	-180.7	-5.9	15.9	-1.5
663204	-169.3	-173.7	-178.3	-9.0	-4.6	-1.8
663213		-161.4	-164.8		-3.4	-0.7
663401	-195.3	-197.1	-198.9	-3.6	-1.8	-0.6
663601	-95.3	-98.1	-99.3	-4.0	-1.2	-1.1
663802	-204.6	-204.5	-205.8	-1.2	-1.3	-0.9
664404	-117.9	-121.0	-126.0	-8.1	-5.0	-2.1
664701	-129.0	-149.2	-153.3	-24.3	-4.1	-2.5
664702	-141.8	-157.0	-159.7	-17.9	-2.7	-2.7

Carson County OGALLALA Aquifer

Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
628102	-210.9	-215.2	-215.5	-4.6	-0.3	-0.3
628402	-207.4	-195.0	-199.7	7.7	-4.7	-4.7
628601	-69.7	-67.8	-68.8	0.9	-1.0	-1.0
628701	-255.5	-255.8	-257.4	-1.9	-1.6	-1.6
629703	-280.6	-292.5	-294.2	-13.6	-1.7	-1.7
629901	-82.7	-83.6	-83.6	-0.9	0.0	0.0
630101	-29.4	-28.3	-29.6	-0.2	-1.3	-1.3
630301	-149.9	-151.4	-151.4	-1.5	0.0	0.0
630402	-120.9	-119.8	-119.9	1.0	-0.1	-0.1
630901	-328.6	-328.7	-332.2	-3.6	-3.5	-3.5
631203	-298.6	-300.1	-300.1	-1.5	0.0	0.0
631302		-249.6	-249.5		0.1	0.1
631701	-390.2	-390.0	-392.8	-2.6	-2.8	-2.8
631702	-276.5	-279.3	-280.9	-4.4	-1.6	-1.6
631803	-395.9	-395.0	-394.6	1.3	0.4	0.4
631956	-226.7	-225.5	-226.6	0.1	-1.1	-1.1
631957	-329.9	-331.2	-332.1	-2.2	-0.9	-0.7



Carson County OGALLALA Aquifer 5 Year Average Change

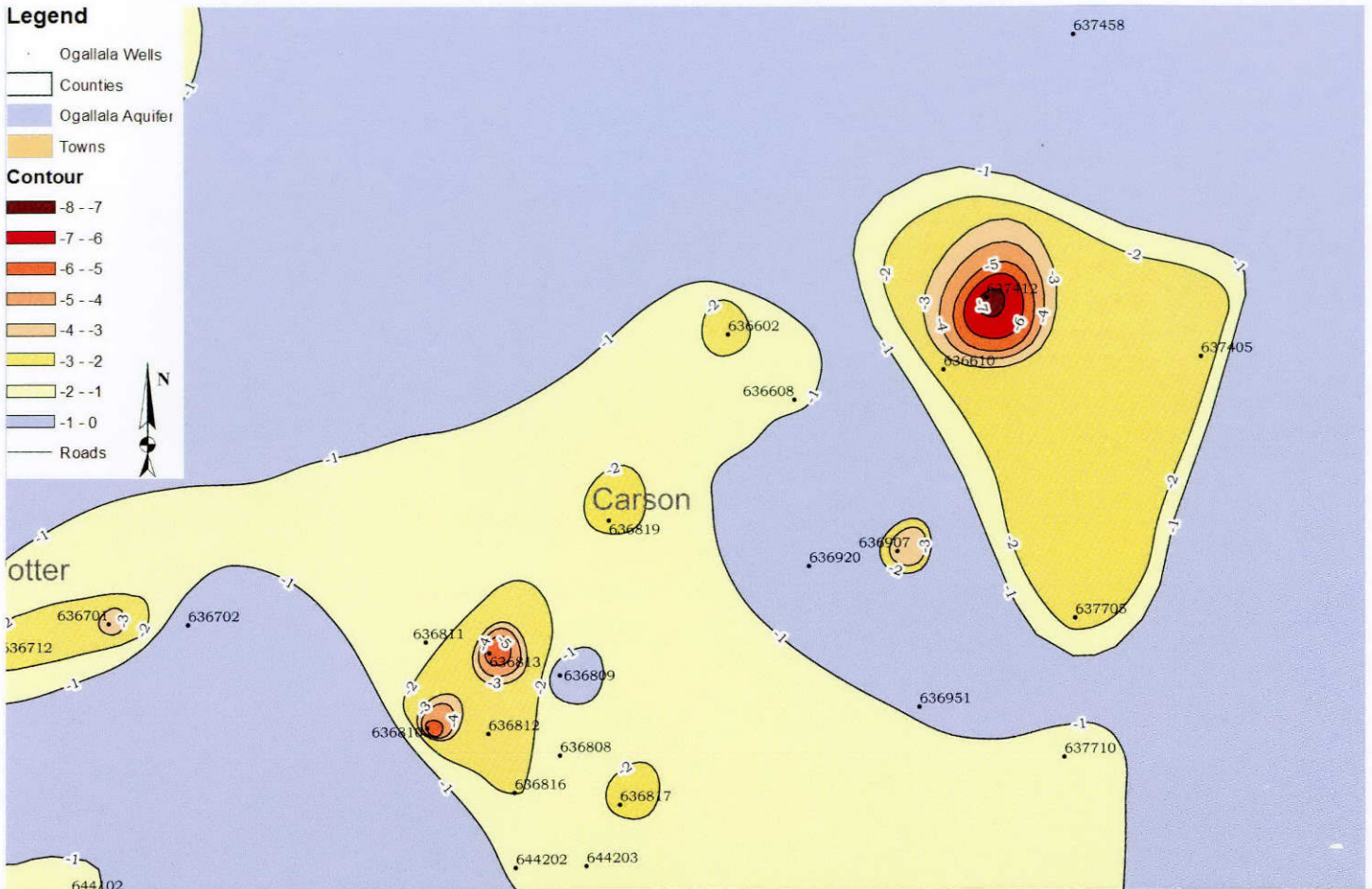


See Page 5 for Carson County Inset

Carson County OGALLALA Aquifer Continued							Carson County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps	Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference		2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
632702	-403.7	-407.0				-0.3	636610	-422.0	-486.9	-489.2	-67.2	-2.3	-2.3
636154	-318.4	-326.7	-327.5	-9.1	-0.8	-1.2	636701	-482.0	-480.6	-487.7	-5.7	-7.1	-3.2
636201	-357.1	-367.1	-368.2	-11.1	-1.1	-1.1	636702	-463.0	-468.0	-470.3	-7.3	-2.3	-0.1
636405		-454.5	-427.0		27.5	-2.7	636712		-422.7	-427.6		-4.9	-2.3
636602	-482.7	-507.8	-509.8	-27.1	-2.0	-2.1	636808	-526.0	-553.0	-562.4	-36.4	-9.4	-1.1
636608	-500.4	-522.0	-524.8	-24.4	-2.8	-1.5	636809	-518.0	-517.6	-531.4	-13.4	-13.9	-0.2



Carson County Inset OGALLALA Aquifer 5 Year Average Change



Carson County OGALLALA Aquifer Continued							Carson County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps	Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference		2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
636810	-538.0	-582.1	-584.9	-46.9	-2.7	-5.1	637705	-459.4	-476.4	-476.7	-17.3	-0.3	-2.1
636811	-531.0	-550.2	-557.1	-26.1	-6.9	-0.2	637710	-433.9	-449.8	-451.1	-17.2	-1.3	-1.8
636812	-544.0	-556.9	-556.9	-12.9	0.0	-2.8	637912	-404.2	-421.8	-423.8	-19.6	-2.0	-2.4
636813	-534.0	-580.5	-587.4	-53.4	-6.9	-5.7	638501	-384.6	-400.6	-406.6	-22.0	-6.0	-2.1
636816	-545.0	-595.1	-572.0	-27.0	23.1	-2.0	638601	-371.5	-377.9	-378.2	-6.7	-0.3	-0.6
636817	-545.0	-561.0	-564.2	-19.2	-3.2	-2.2	638701	-416.8	-428.5	-429.7	-12.9	-1.2	-2.2
636819	-505.0	-534.7	-534.7	-29.7	0.0	-2.2	638711	-426.2	-446.5	-445.9	-19.7	0.6	-3.1
636907	-501.0	-514.7				-3.8	638807	-405.3	-438.8	-442.6	-37.3	-3.8	-3.7
636920	-516.0	-529.6	-531.9	-15.9	-2.3	-0.4	638811	-428.2	-457.8	-464.8	-36.6	-7.0	-5.3
636951		-487.3	-488.6		-1.3	-0.8	638820		-448.9	-452.8		-3.9	-1.7
637301	-272.6	-281.7	-283.2	-10.6	-1.5	-1.0	638913	-402.7	-429.5	-429.9	-27.2	-0.4	-2.0
637405	-440.8	-498.5	-459.6	-18.8	38.9	-2.2	638916	-410.1	-431.7	-435.5	-25.4	-3.8	-3.1
637412		-473.0	-477.9		-4.9	-7.5	639301	-398.3	-396.4	-398.0	0.3	-1.6	-0.1
637458	-434.5	-441.6	-445.5	-11.0	-3.9	-0.6	639501	-371.1	-381.3	-381.5	-10.4	-0.2	-1.0
637502	-305.7	-319.7	-320.6	-14.9	-0.9	-1.2	639606		-350.2	-356.9		-6.7	-1.5



Panhandle Water News

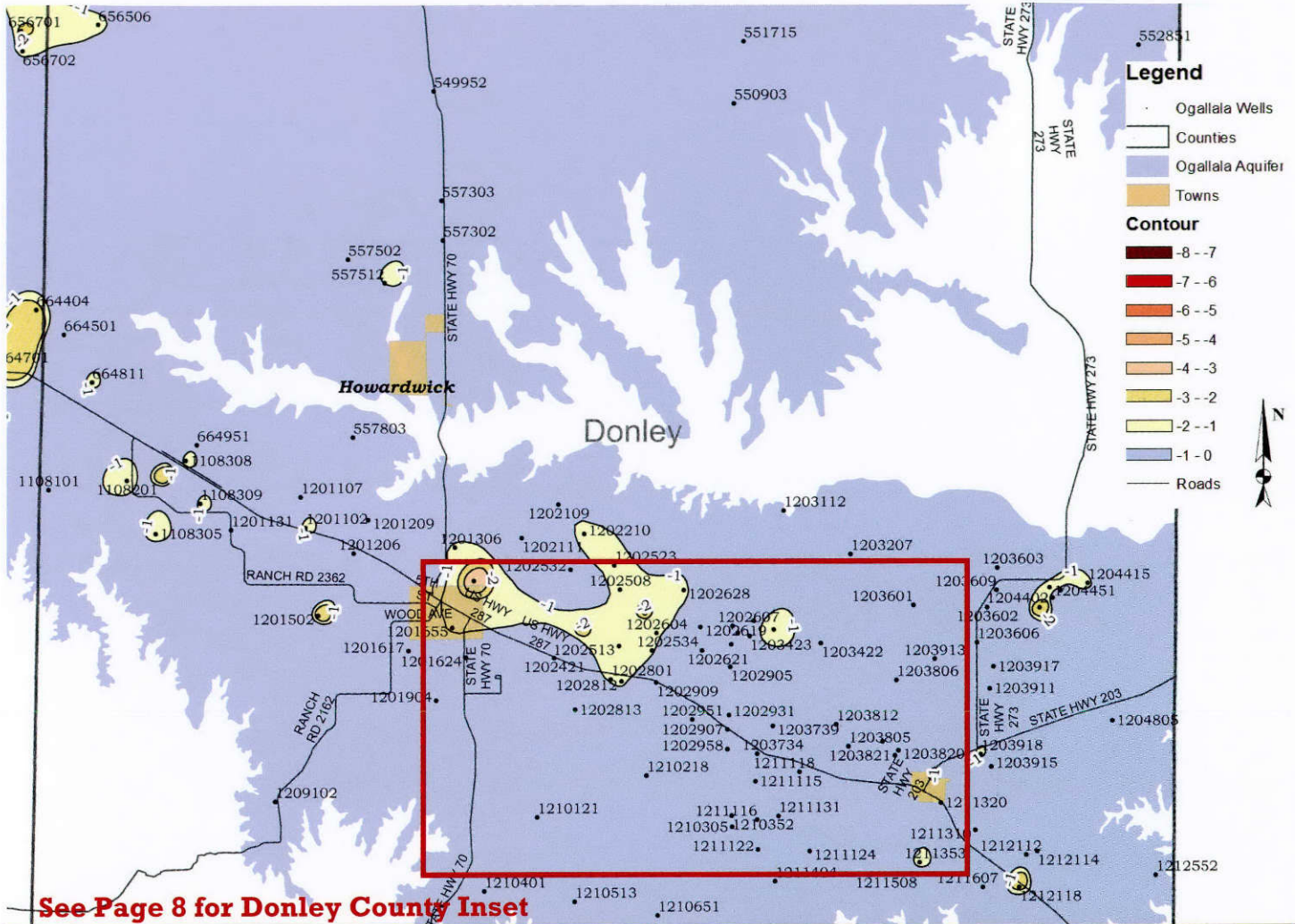
Carson County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg
639607		-365.4	-375.0		-9.6	-4.2
639607		-356.7	-361.3		-4.6	-1.0
639707	-383.5	-399.1	-402.0	-18.5	-2.9	-2.8
639865	-391.8	-411.4	-411.5	-19.7	-0.1	-0.5
639909	-349.3	-359.3	-360.1	-10.8	-0.8	-0.9
639956	-364.1	-383.7	-383.3	-19.2	0.4	-1.6
640402		-394.2				0.0
640406		-400.5	-401.6		-1.1	-0.6
640451		-395.2	-394.6		.6	-0.1
640701		-378.7				0.0
640707		-396.0	-397.4		-1.4	-0.7
640765	-342.9	0.0	-357.4	-14.5	-357.4	-2.0
644102		-494.3	-498.9		-4.6	-1.1
644202	-541.0	-598.9	-561.6	-20.6	37.4	-1.9
644203	-538.0	-591.0	-551.0	-13.0	40.0	-1.2
644205	-530.0	-550.4	-550.4	-20.4	0.0	-0.7
644207	-524.0	-537.0	-537.6	-13.6	-0.6	-1.3
644304		-527.0	-539.8		-12.8	-2.5
644306	-511.0	-486.0	-484.1	27.0	1.9	-2.8
644311	-488.5	-512.5	-514.1	-25.6	-1.6	-3.1
644315	-450.7	-468.9	-473.2	-22.5	-4.3	-2.8
644321		-522.5	-527.1		-4.6	-1.4
644325		-495.9	-498.0		-2.1	-1.0
644618	-444.3	-460.5	-459.1	-14.8	1.4	-1.0
644656	-434.7	-444.4	-466.7	-32.0	-22.3	-6.8
645104	-425.8	-444.3	-446.3	-20.5	-2.0	-2.1
645201	-425.0	-443.7	-446.7	-21.7	-3.0	-2.5
645210	-438.2	-460.6	-462.7	-24.5	-2.1	-2.9
645510	-423.9	-438.6	-440.9	-17.0	-2.3	-2.1
645513	-438.9	-454.8	-456.3	-17.4	-1.5	-2.1
645701	-387.9	-392.5	-427.1	-39.2	-34.6	-7.6
645804	-325.1	-330.4	-331.0	-5.9	-0.6	-0.9
646162	-378.6	-386.0	-386.8	-8.2	-0.8	-0.9
646205	-421.3	-452.6	-449.7	-28.4	2.9	-3.9
646304		-437.2	-442.8		-5.6	-4.4
646412		-426.7	-431.8		-5.1	-4.0
646504	-381.5	-396.4	-399.7	-18.2	-3.3	-1.7
646601	-372.0	-378.1	-378.3	-6.3	-0.2	-0.7
646701	-380.0	-370.3	-371.1	8.9	-0.8	-0.6
646757	-375.3	-395.9	-397.5	-22.2	-1.6	-2.4
646826		-391.8	-396.2		-4.4	-2.2
646904	-363.7	-366.5	-371.0	-7.3	-4.5	-1.0

Carson County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
647205	-377.3	-382.3	-382.6	-5.3	-0.3	-0.5
647401	-350.8	-354.5				-0.6
647554	-308.6	-314.0	-313.2	-4.6	0.8	-0.6
647604	-318.6	-322.0	-326.5	-7.9	-4.5	-1.1
647806	-358.4	-368.2	-368.8	-10.4	-0.6	-1.5
648103		-317.4	-318.0		-0.6	-0.3
654606	-382.8	-390.2	-391.1	-8.3	-0.9	-2.3
655113	-382.0	-392.0	-393.4	-11.4	-1.4	-1.8
655156	-373.5	-394.5	-396.1	-22.6	-1.6	-0.6

Donley County OGALLALA Aquifer						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
549952		-253.7				0.0
550903	-114.9	-108.1	-109.9	5.0	-1.8	-0.3
551715	-110.5	-112.8	-113.9	-3.4	-1.1	-0.2
552851	-123.4	-120.3	-123.2	0.2	-2.9	-0.4
557302		-114.3				0.0
557303		-165.8	-169.6		-3.8	-0.4
557502	-103.0	-95.9				0.0
557512	-42.0	-40.8	-45.7	-3.7	-4.9	-1.1
557803	-84.4	-90.1	-89.6	-5.2	0.5	0.0
656506	-347.9	-343.2	-346.2	1.7	-3.0	-1.3
664501	-116.5	-125.3	-125.6	-9.1	-0.3	-0.9
664811	-98.1	-107.2	-113.5	-15.4	-6.3	-1.4
664951	-63.0	-67.9	-72.5	-9.5	-4.6	-0.6
1108101	-99.3	-101.8	-102.1	-2.8	-0.3	-0.7
1108201		-129.7	-134.1		-4.4	-1.4
1108305		-104.3	-110.7		-6.4	-1.9
1108308	-68.9	-84.0	-84.2	-15.3	-0.2	-1.4
1108309	-74.1	-90.7	-92.2	-18.1	-1.5	-1.4
1108312	-76.6	-91.4	-93.5	-16.9	-2.1	-2.0
1201102	-41.9	-41.1	-43.9	-2.0	-2.8	-1.1
1201107	-51.5	-51.7	-51.8	-0.3	-0.1	-0.6
1201131	-52.0	-62.5	-62.2	-10.2	0.3	-0.8
1201206		-75.7	-75.6		0.1	-0.8
1201209		-48.0	-48.5		-0.5	-0.1
1201306	-54.4	-72.3	-74.2	-19.8	-1.9	-1.5
1201502	-130.7	-134.0	-144.2	-13.5	-10.2	-2.2



Donley County OGALLALA Aquifer 5 Year Average Change

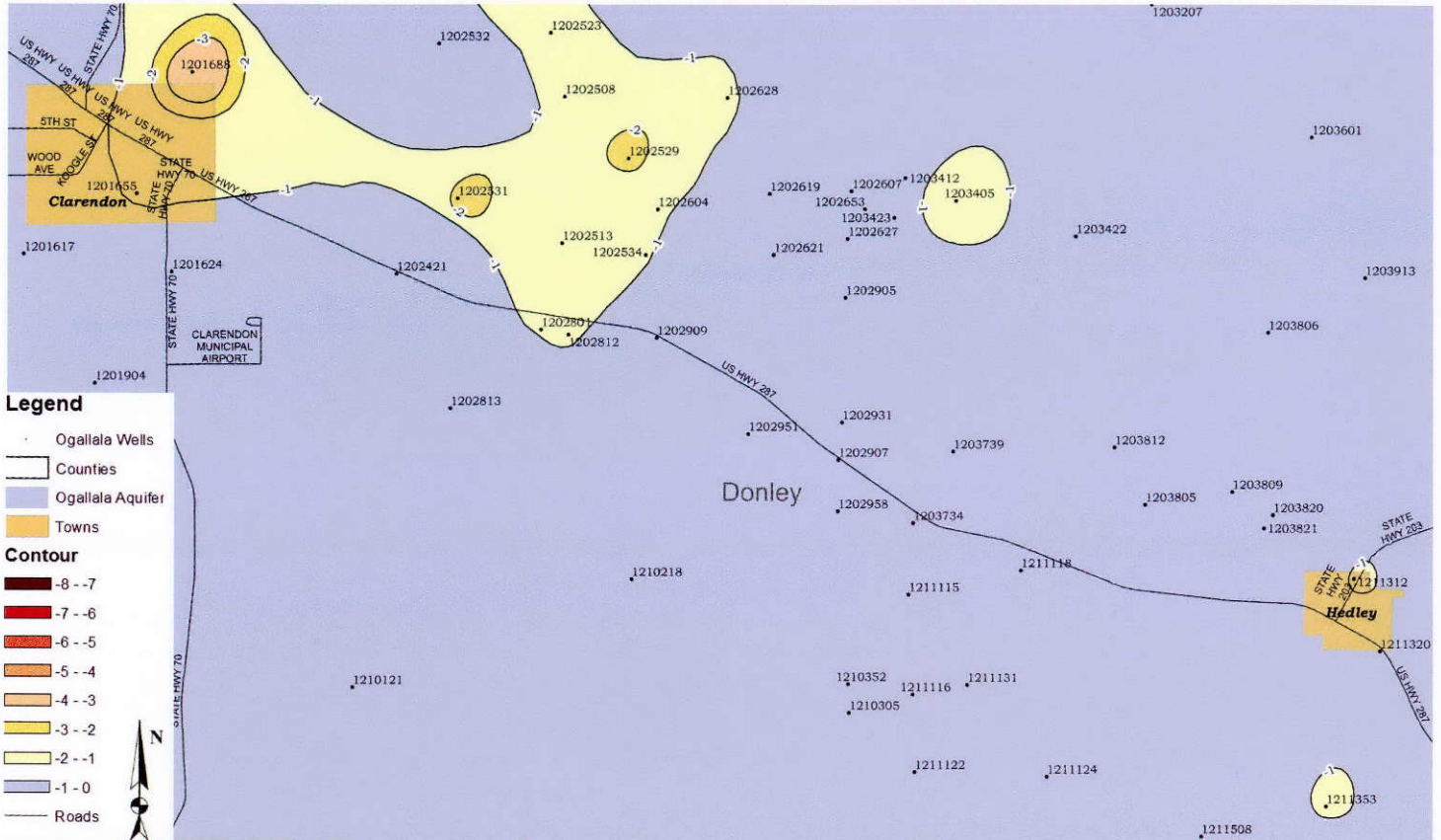


See Page 8 for Donley County Inset

Donley County OGALLALA Aquifer Continued							Donley County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps	Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference		2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
1202529	-115.2	-115.3	-118.0	-2.8	-2.7	-0.4	1202529	-88.7	-92.7		-4.0	-2.0	
1202531	-93.6	-103.8	-106.8	-13.2	-3.0	-0.6	1202531	-75.3	-75.3		0.0	-2.0	
1202532	-56.1	-58.8	-65.4	-9.3	-6.6	-1.1	1202532	-75.1	-76.5		-1.4	-0.7	
1202534		-81.0				-3.3	1202534	-74.4	-72.3		2.1	-1.3	
1202604	-146.9	-144.2	-149.5	-2.6	-5.3	-0.8	1202604	-82.2	-79.4		2.8	-1.2	
1202607		-101.9	-104.8		-2.9	-0.9	1202607	-78.3	-85.4	-6.8	0.3	-0.7	
1202619		-114.3	-116.2		-1.9	-0.5	1202619		-87.0	-85.6		1.4	-1.0
1202621		-81.5	-82.4		-0.9	-1.7	1202621		-66.7	-59.1		7.6	-0.1
1202627		-31.5	-31.2		0.3	-0.3	1202627		0.0	-85.3		-85.3	-0.4
1202628		-99.7	-99.3		0.4	-1.7	1202628		-59.8	-60.6		-0.8	-1.5
1202653		-89.0	-87.9		1.1	-1.9	1202653		-89.3	-86.4		2.9	-0.1
1202801		-95.9	-93.5		2.4	-1.0	1202801		-45.8	-45.5		0.3	-1.6



Donley County Inset OGALLALA Aquifer 5 Year Average Change



Donley County OGALLALA Aquifer Continued							Donley County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps	Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference		2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
1202812	-24.7	-38.7	-38.7	-14.0	0.0	-1.5	1203606	-87.9	-95.7				0.0
1202813		-83.8	-85.0		-1.2	-0.3	1203609		-121.6	-120.9		0.7	-0.4
1202905		-74.7	-72.6		2.1	0.0	1203734		-32.5	-34.4		-1.9	-0.5
1202907	-13.2	-16.0	-14.6	-1.4	1.4	-0.1	1203739		-25.6	-26.9		-1.3	-0.2
1202909		-155.0				0.0	1203805		-68.9				-0.8
1202931	-40.4	-42.6	-42.1	-1.7	0.5	0.0	1203806	-122.3	-130.4	-126.8	-4.5	3.6	-0.6
1202951	-15.1	-24.4	-21.4	-6.3	3.0	-0.4	1203809		-60.7	-60.6		0.1	-0.5
1202958		-15.9	-15.1		0.8	-0.2	1203812		-86.9	-84.6		2.3	-0.6
1203112		-12.1	-12.9		-0.8	-0.4	1203820		-72.7	-74.5		-1.8	-0.6
1203207	-80.3	-83.1	-83.7	-3.4	-0.6	-0.4	1203821		-66.1	-65.7		0.4	-0.4
1203405	-79.4	-80.2	-81.2	-1.8	-1.0	-1.4	1203911	-46.8	-53.3	-50.9	-4.1	2.4	-0.5
1203412		-85.1	-85.8		-0.7	-0.6	1203913		-103.6	-105.3		-1.7	-0.8
1203422		-44.2	-43.3		0.9	-0.1	1203915		-88.1	-94.5		-6.4	-1.0
1203423		-96.0	-97.1		-1.1	-0.6	1203917		-50.4	-50.5		-0.1	-0.1
1203601	-102.2	-102.7	-103.0	-0.8	-0.3	-1.0	1203918		-79.6	-79.8		-0.2	-0.2
1203602		-118.1	-117.1		1.0	-0.2	1204402		0.0	-121.0		-121.0	-0.5
1203603	-87.9	-94.6				-0.8	1204408		-123.0	-122.1		0.9	-0.7



Donley County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
1204415		-101.6	-103.6		-2.0	-1.1
1204451	-122.6	-134.8	-136.9	-14.4	-2.1	-1.4
1204452		0.0	-139.6		-139.6	-2.1
1204805	-29.7	-36.5	-32.9	-3.2	3.6	-0.4
1209102	-100.5	-100.0	-101.1	-0.6	-1.1	-0.1
1210121	-130.2	-131.6	-135.0	-4.8	-3.4	-0.6
1210218	-66.8	-65.8	-65.6	1.2	0.2	-0.3
1210305	-38.0	0.0	-43.7	-5.7	-43.7	-0.3
1210352		-39.1	-39.2		-0.1	-0.2
1210401	-112.7	-110.7	-113.0	-0.3	-2.3	-0.1
1210513	-115.7	-115.5	-117.3	-1.6	-1.8	-0.2
1210651		-66.3	-68.3		-2.0	0.0
1211115		-160.2				-0.2
1211116		-114.4	-117.1		-2.7	-0.8
1211118		-105.2	-105.3		-0.1	-0.5

Donley County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
1211122		-113.8	-114.8		-1.0	-0.8
1211124		-186.0	-187.5		-1.5	-0.6
1211131		-80.3	-81.6		-1.3	-0.8
1211310	-99.4	-74.1	-73.3	26.1	0.8	-0.1
1211312		-61.1	-64.1		-3.0	-1.0
1211320		-87.6	-85.4		2.2	-0.2
1211353	-104.9	-110.3	-110.8	-5.9	-0.5	-1.1
1211404	-198.0	-195.7	-198.2	-0.2	-2.5	-0.8
1211508	-169.2	-171.0	-172.1	-2.9	-1.1	-0.6
1211607		-142.6	-136.0		6.6	-0.2
1212112	-85.2	-87.9	-88.9	-3.7	-1.0	-0.3
1212114		-92.3	-89.7		2.6	-0.1
1212118		-76.2	-89.8		-13.6	-3.0
1212552	-67.7	-60.7				-0.1

PGCD Board Holds Special Called Meeting

Panhandle Groundwater Conservation District Board of Directors held a Special Called Board Meeting on July 6, 2017. The main topic of discussion was the permit sent to Texas Commission on Environmental Quality (TCEQ), requested by Bowers Land and Cattle Family Limited Partnership to operate a dairy in Carson County. With over 50 people in attendance, there was much discussion surrounding potential issues with the dairy. The dairy's proposed location is 3.5 miles southwest of Panhandle.

Chandler Bowers spoke on behalf of the partnership several times during the meeting; stating he and all others involved with the dairy are aware of the District's current rules regarding pumping. He also stated the parties intend to operate the dairy within PGCD's rules and regulations.

PGCD General Manager C.E. Williams gave a presentation over the District's issues. One main issue is abandoned wells located on the proposed site. Williams and the Board were assured TCEQ is also aware of the abandoned wells, and they have specific measures in place to avoid groundwater contamination.

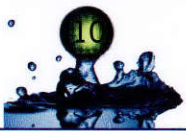
District Board of Directors held much discussion over the potential issues, and also made sure District rules were understood and to be followed by everyone involved. In the end, Directors voted 7-1, with Joy Shadid for and Charles Bowers was not called on to vote by Chairman Hardcastle upon advice of legal counsel, against filing a comment letter or requesting contested case hearing with TCEQ, with the basis that no District rules are currently being violated.



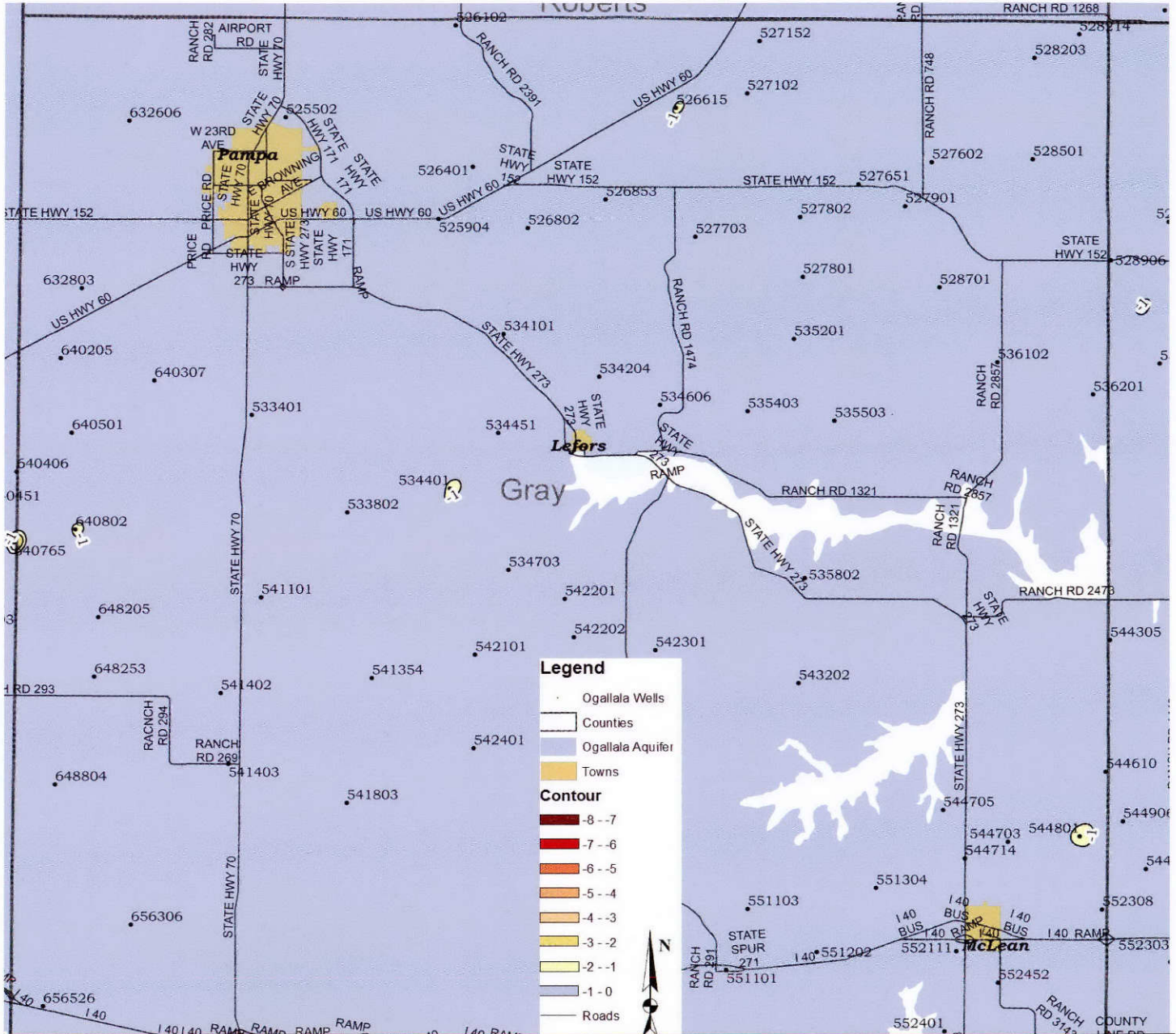
Attendees at the July 6th Board Meeting



GM, C.E. Williams presenting over District concerns.



Gray County OGALLALA Aquifer 5 Year Average Change



Gray County OGALLALA Aquifer							Gray County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps	Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference		2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
525502	-349.8	-352.5	-352.3	-2.5	0.2	-0.1	527102	-361.6	-366.9	-367.3	-5.7	-0.4	-0.7
525904	-364.2	-370.5	-370.3	-6.1	0.2	-0.4	527152		-347.6	-348.2		-0.6	-0.7
526102		-357.8	-357.7		0.1	-0.1	527602	-330.8	-334.2	-334.0	-3.2	0.2	-0.2
526401	-371.0	-376.2	-376.2	-5.2	0.0	-0.4	527651		-346.3				-0.7
526615		-378.3	-379.7		-1.4	-1.0	527703		-373.6	-375.0		-1.4	-0.5
526802	-357.0	-358.1	-358.7	-1.7	-0.6	-0.2	527801	-136.2	-135.8	-135.9	0.3	-0.1	-0.4
526853	-366.5	-368.3	-368.4	-1.9	-0.1	-0.5	527802	-338.0	-344.2	-345.0	-7.0	-0.8	-0.9

Panhandle Water News



Gray County OGALLALA Aquifer Continued							Gray County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps	Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference		2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
527901	-340.2	-341.5	-341.8	-1.6	-0.3	-0.2	542301	-138.7	-139.9	-139.9	-1.2	0.0	-0.1
528203	-340.2	-343.6	-344.1	-3.9	-0.5	-0.4	542401	-199.4	-200.8	-202.7	-3.3	-1.9	-0.1
528214		-349.1	-350.1		-1.0	-0.4	543202	-113.0	-112.5	-112.6	0.4	-0.1	-0.1
528501	-282.8	-286.2	-285.7	-2.9	0.5	-0.3	544610	-182.6	-186.4	-187.1	-4.5	-0.7	-0.5
528701		-113.0	-113.2		-0.2	-0.2	544703	-125.8	0.0	-131.4	-5.6	-131.4	-0.9
533401	-348.8	-350.8	-351.7	-2.9	-0.9	-0.2	544705	-63.9	-64.9	-65.0	-1.1	-0.1	-0.1
533802	-209.8	-210.9	-211.4	-1.6	-0.5	-0.2	544714		-114.0	-114.3		-0.3	-0.5
534101	-141.3	-141.9	-143.0	-1.7	-1.1	-0.2	544801	-110.5	-113.8	-117.9	-7.4	-4.1	-1.2
534204	-194.8	-195.2				-0.1	551101	-212.8	-215.6	-215.1	-2.3	0.5	-0.2
534401	-120.0	-131.0	-126.0	-6.0	5.0	-1.9	551103	-133.1	-137.5	-137.2	-4.1	0.3	-0.3
534451	-110.3	-110.7	-110.8	-0.5	-0.1	-0.1	551202	-189.8	-194.8	-194.6	-4.8	0.2	-0.6
534606	-73.8	-74.8	-74.7	-0.9	0.1	-0.1	551304		-76.5	-76.2		0.3	-0.3
534703	-75.7	-75.8	-76.2	-0.5	-0.4	-0.1	552111	-105.2	-110.3	-110.7	-5.5	-0.4	-0.1
535201	-133.7	-120.3	-121.4	12.3	-1.1	-0.1	552308	-110.1	-105.1	-106.2	3.9	-1.1	-0.5
535403	-124.9	-126.9	-127.1	-2.2	-0.2	-0.2	552401	-74.6	-72.7				-0.1
535503	-76.1	-77.6	-77.2	-1.1	0.4	-0.1	552452	-106.2	-111.8	-111.6	-5.4	0.2	-0.6
535802	-118.1	-119.8	-120.0	-1.9	-0.2	-0.2	632606	-364.2	-365.9	-365.1	-0.9	0.8	-0.2
536102	-165.2	-167.4	-167.6	-2.4	-0.2	-0.2	632803		-394.1	-395.8		-1.7	-0.2
536201	-149.6	-151.9	-151.9	-2.3	0.0	-0.1	640205	-388.0	-389.4	-389.5	-1.5	-0.1	-0.1
541101	-369.9	-370.8	-373.5	-3.6	-2.7	-0.3	640307		-397.3				0.0
541354		-355.2	-359.6		-4.4	-1.0	640501	-372.9	-377.1	-377.2	-4.3	-0.1	-0.5
541402		-318.4	-319.0		-0.6	-0.1	640802	-361.7	-370.8	-375.4	-13.7	-4.6	-1.5
541403		-294.2	-293.7		0.5	0.0	648205		-379.2				0.0
541803		-263.8				0.0	648253	-360.9	-356.9	-359.6	1.3	-2.7	-0.5
542101	-262.6	-263.3	-264.0	-1.4	-0.7	-0.2	648804		-289.4	-290.4		-1.0	-0.1
542201	-135.7	-137.5	-132.9	2.8	4.6	-0.1	656306	-280.9	-286.4	-288.9	-8.0	-2.5	-0.7
542202	-267.8	-261.6	-262.4	5.4	-0.8	0.0	656526		-311.2	-311.9		-0.7	-0.9

PGCD Summer Education

PGCD Meteorologist Jennifer Puryear has been busy this summer, not only running the District's Precipitation Enhancement Program, but also visiting with and educating local youth.

Pictured to the right is Puryear at the White Deer Library Summer Reading Program, where she taught the children about the formation of storm clouds.

If you or an organization you know is looking for educational presentations, please call the District's office at 806-883-2501. We have various presentations over many of the Programs here at the District.

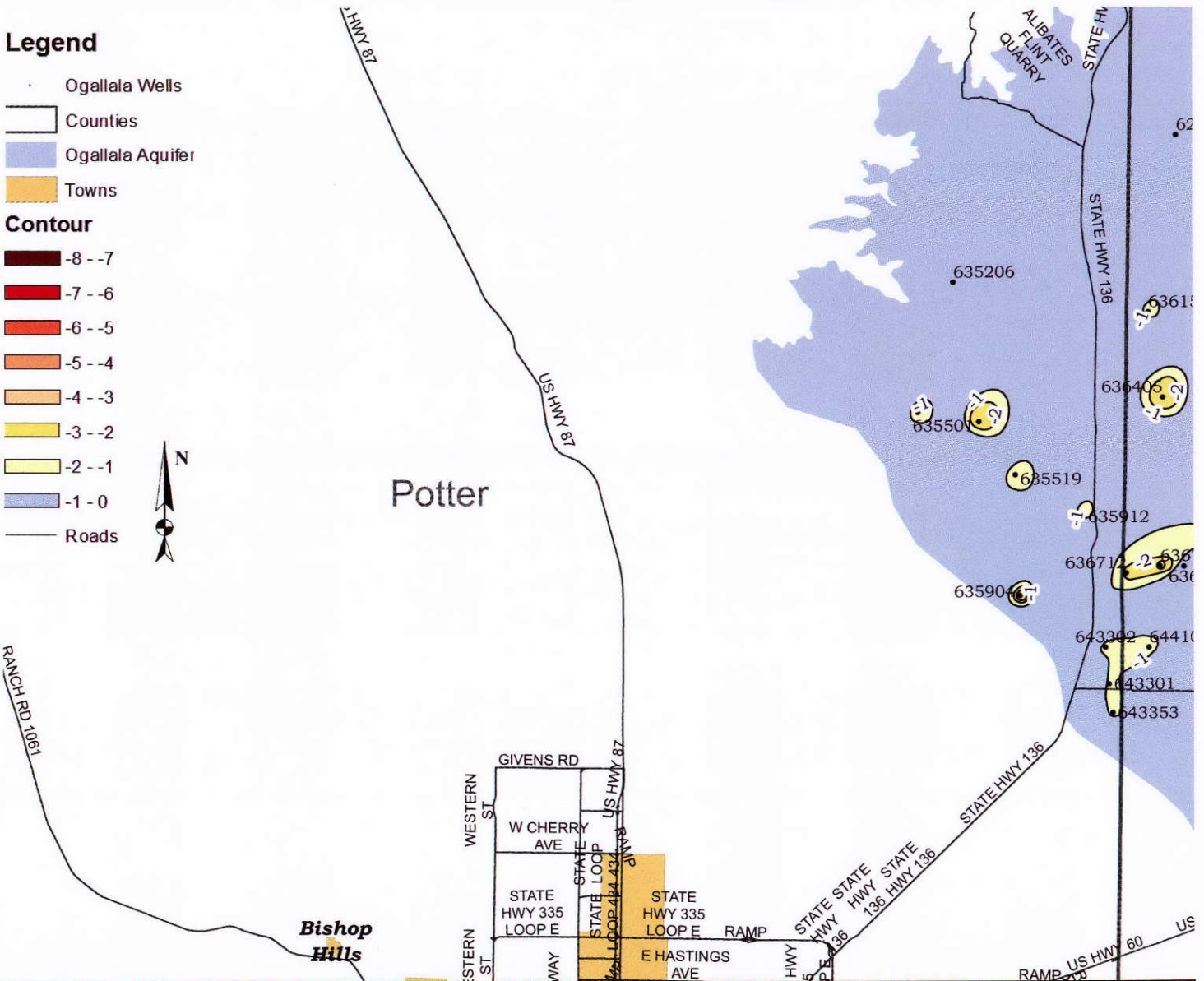




Potter County OGALLALA Aquifer 5 Year Average Change

Legend

- Ogallala Wells
 - Counties
 - Ogallala Aquifer
 - Towns
- ### Contour
- 8 --7
 - 7 --6
 - 6 --5
 - 5 --4
 - 4 --3
 - 3 --2
 - 2 --1
 - 1 -0
- N
- Roads



Potter County OGALLALA Aquifer						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	
635206		-228.2	-228.6		-0.4	-0.8
635401	-287.3	-289.9	-292.0	-4.7	-2.1	-1.2
635501	-307.2	-329.0	-328.3	-21.1	0.7	-2.7
635519		-284.3	-284.7		-0.4	-1.7
635904		-260.3	-265.7		-5.4	-3.5

Potter County OGALLALA Aquifer						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	
635912	-339.6	-351.8	-354.4	-14.8	-2.6	-1.9
643301	-490.9	-525.8	-498.9	-8.0	26.9	-1.8
643302	-471.5	-488.2	-490.6	-19.1	-2.4	-1.9
643353		-438.9	-441.7		-2.8	-1.0

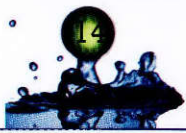
Panhandle Water News



Hutchinson County OGALLALA Aquifer						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
615801	-180.8	-180.9				-0.3
615803	-77.2	-79.9	-79.6	-2.4	0.3	0.0
615804	-110.3	-111.1	-111.5	-1.2	-0.4	-0.3
615901	-77.2	-73.3	-73.5	3.7	-0.2	-0.2
616402	-267.1	-271.4	-272.1	-5.0	-0.7	-0.8
616702	-237.8	-244.3	-245.0	-7.2	-0.7	-0.7
623205	-153.8	-157.1	-157.7	-3.9	-0.6	-0.4
623301	-115.6	-116.2	-116.5	-0.9	-0.3	-0.2
623304	-190.0	-190.2	-190.8	-0.8	-0.6	-0.2

Roberts County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
503709	-277.2	-278.8	-278.5	-1.3	0.3	-0.2
503931		-50.8	-51.3		-0.5	-0.1
504401	-99.9	-100.2	-100.6	-0.7	-0.4	0.0
509103		0.0	-53.8		-53.8	-1.4
509302	-193.2	-192.0	-194.4	-1.2	-2.4	-1.8
509502	-294.8	-313.6	-315.7	-20.9	-2.1	-2.3
509503	-253.7	-276.8	-278.6	-24.8	-1.7	-1.9
509552	-102.6	-126.4	-128.6	-26.0	-2.2	-2.4
509603	-199.4	-252.8	-214.2	-14.8	38.6	-2.7
509604	-185.1	-199.5	-201.0	-15.9	-1.5	-1.5
509605	-237.0	0.0	-254.8	-17.8	-254.8	-1.8
509750	-445.6	-471.0	-475.9	-30.3	-4.9	-1.9
509757	-446.7	-469.8	-475.7	-29.0	-5.9	-1.9
509805	-314.2	-325.6	-327.1	-12.9	-1.5	-1.6
510401	-149.5	-166.7	-169.3	-19.8	-2.6	-2.6
510402	-253.7		-291.7	-38.0	-291.7	-2.3
510502	-246.6	0.0	-259.6	-13.0	-259.6	-4.1
510701	-294.9	-374.2				-5.2
510808		-415.4	-414.4		1.0	-0.1
510817		-209.7	-206.9		2.9	-4.1
510901	-157.7	-195.5	-203.2	-45.5	-7.7	-7.1
510952	-345.1	-414.3	-416.6	-71.5	-2.3	-2.5
510953	-184.9	-264.1	-264.9	-80.0	-0.8	-3.3
511101	-287.7	-291.5	-294.6	-6.9	-3.1	-1.1
511401	-344.5	-329.2	-329.3	15.2	-0.1	0.0
511501	-307.3	-320.4	-320.6	-13.3	-0.2	-1.2
511702	-402.7	-453.8	-457.0	-54.3	-3.2	-0.9
511901	-274.7	-282.1	-282.4	-7.7	-0.3	-0.8
517203	-323.8	-331.6	-332.5	-8.7	-0.9	-1.1
517207		-201.2	-203.1		-1.9	-1.4
517307		-135.8	-136.8		-1.0	-2.1
517350	-342.3	-352.3	-353.7	-11.4	-1.4	-1.7
517452	-359.3	-361.5	-362.9	-3.6	-1.4	-0.7
517804	-398.0	-405.5	-405.4	-7.4	0.1	-0.5
517852	-407.4	-409.7	-410.3	-2.9	-0.6	-0.1
517901	-397.9	-397.0	-396.8	1.1	0.2	-0.5
518101	-326.7	-360.1	-362.5	-35.8	-2.4	-5.0
518206		-463.8	-466.4		-2.6	-1.3
518702	-388.8	-391.1	-391.8	-3.0	-0.7	-0.4
518704	-385.8	0.0	-386.7	-0.9	-386.7	0.0

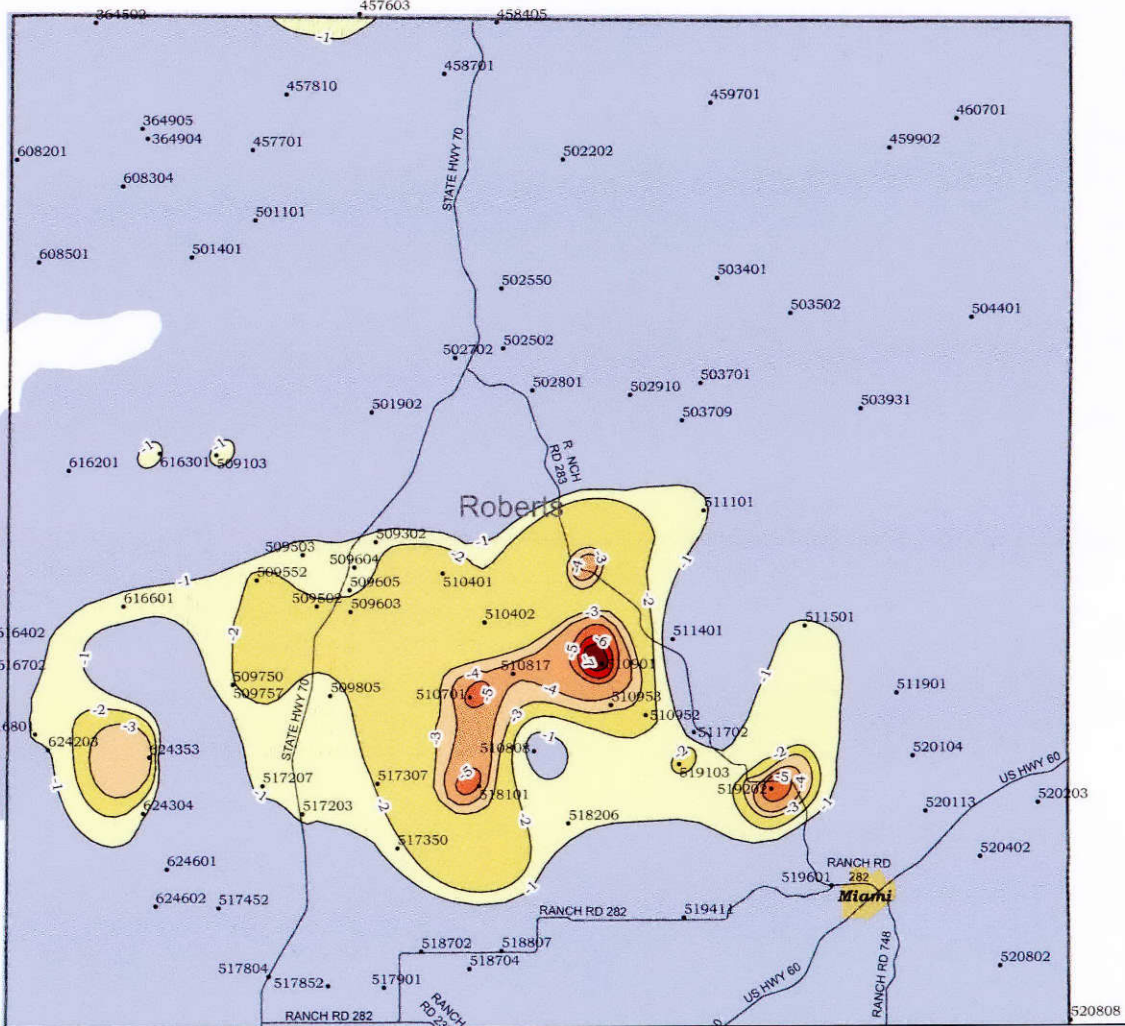
Roberts County OGALLALA Aquifer						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
364502	-445.2	-453.2	-456.2	-11.0	-3.0	-0.9
364904	-111.9	-116.4	-118.4	-6.5	-2.0	-0.7
364905	-94.8	-98.8	-101.7	-6.9	-2.9	-0.7
457603	-403.2	-406.9	-410.4	-7.2	-3.5	-1.1
457701	-24.4	-28.6	-28.9	-4.5	-0.3	-0.4
457810		-258.7	-260.7		-2.0	-0.8
458405	-341.7	-345.0	-346.1	-4.4	-1.1	-0.6
458701	-88.5	-95.7	-98.6	-10.1	-2.9	-0.2
459701	-54.6	-56.9	-56.2	-1.6	0.7	-0.1
459902	-47.7	-48.5	-48.8	-1.1	-0.3	-0.1
460701	-97.4	-97.6	-97.8	-0.4	-0.2	0.0
501101	-55.7	-57.7	-58.7	-3.0	-1.0	-0.4
501401	-51.9	-53.2	-53.6	-1.7	-0.4	-0.1
501902	-198.8	-207.9	-208.0	-9.2	-0.1	-0.7
502202	-68.8	-70.7	-70.8	-2.0	-0.1	-0.2
502502	-107.9	-108.5	-108.6	-0.7	-0.1	-0.1
502550	-100.5	0.0	-102.3	-1.8	-102.3	-0.3
502702	-57.3	-61.0	-61.1	-3.8	-0.1	-0.4
502801	-7.1	-8.7	-8.2	-1.1	0.5	0.0
502910		-167.7	-168.0		-0.3	-0.2
503401	-99.8	-100.3	-100.4	-0.6	-0.1	-0.1
503502	-30.9	-31.8	-31.9	-0.9	-0.1	-0.1
503701	-92.8	-86.8	-86.9	5.9	-0.1	-0.1



Hutchinson and Roberts County OGALLALA Aquifer 5 Year Average Change

Legend

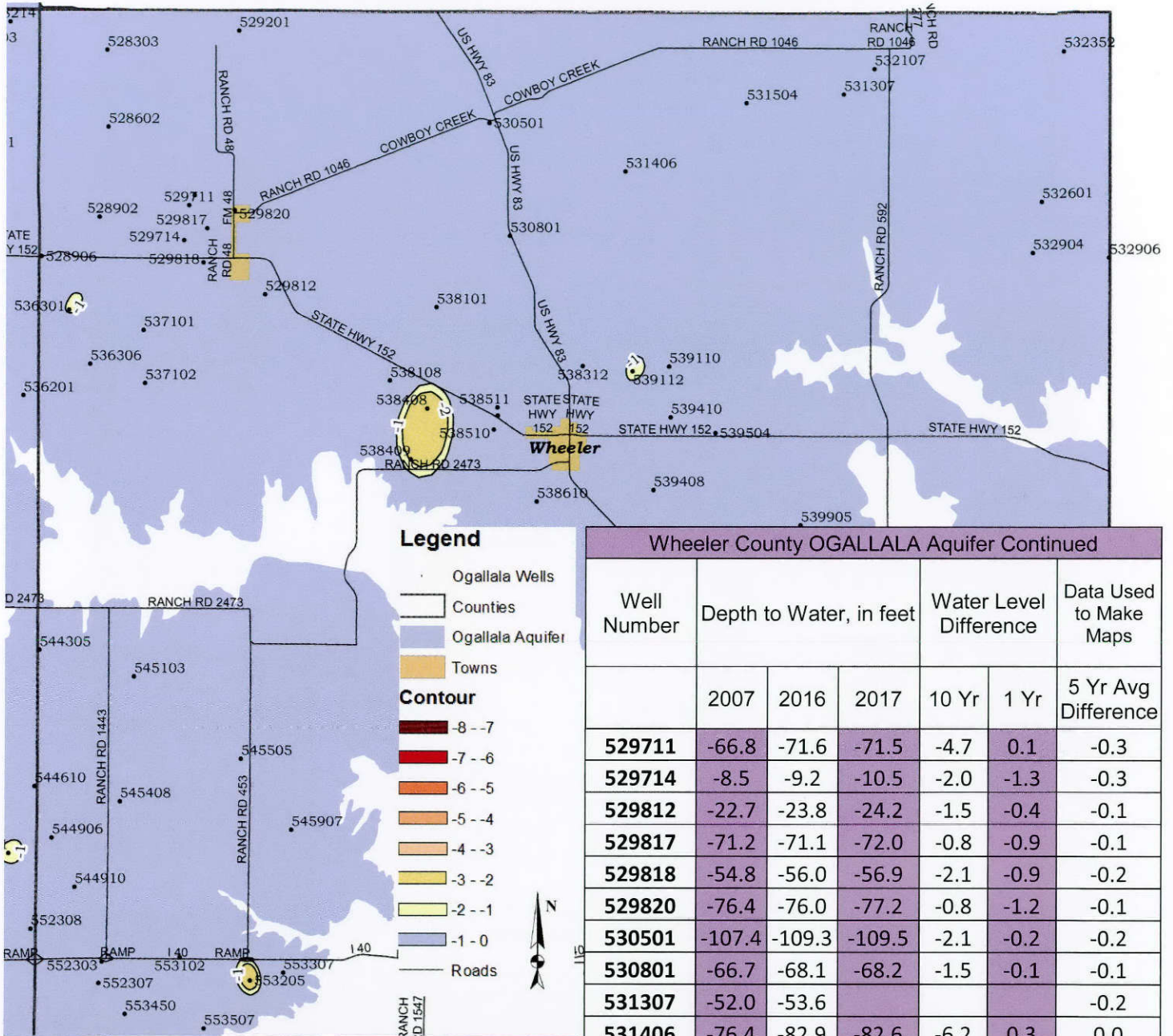
- Ogallala Wells
 - Counties
 - Ogallala Aquifer
 - Towns
- ### Contour
- 8 --7
 - 7 --6
 - 6 --5
 - 5 --4
 - 4 --3
 - 3 --2
 - 2 --1
 - 1 -0
- Roads



Roberts County OGALLALA Aquifer Continued							Roberts County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps	Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference		2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
518807		-476.5	-377.6		98.9	-0.7	608201	-174.5	-177.6	-179.1	-4.6	-1.5	-0.4
519103		-432.1	-437.6		-5.5	-2.6	608304		-83.0	-84.5		-1.5	-0.5
519202	-362.0	-392.1	-389.0	-27.0	3.1	-5.9	608501	-63.8	-65.8	-66.7	-2.9	-0.9	-0.4
519411		-366.5	-368.3		-1.8	-0.9	616201	-143.8	-147.1	-146.9	-3.1	0.2	-0.4
519601	-116.6	-118.7				-0.2	616301	-178.3	0.0	-186.9	-8.6	-186.9	-0.6
519702	-259.0	-262.5	-264.9	-5.9	-2.4	-0.8	616601	-248.9	-276.6	-279.1	-30.2	-2.5	-1.7
520104	-142.7	-152.1	-152.1	-9.4	0.0	-0.8	616801	-215.3	-225.5	-226.7	-11.4	-1.2	-1.2
520113		-73.5	-74.5		-1.0	-0.8	624203	-242.8	-252.1	-252.7	-9.9	-0.6	-0.9
520203	-112.0	-114.1	-112.6	-0.6	1.5	-0.1	624304	-296.8	-309.9	-311.2	-14.4	-1.3	-1.1
520402	-287.0	-296.3	-297.0	-10.0	-0.7	-0.4	624353	-373.8	-390.8	-394.4	-20.6	-3.6	-3.0
520802	-243.6	-245.9	-246.2	-2.6	-0.3	-0.4	624601	-207.8	-207.6	-211.6	-3.8	-4.0	-0.7
520808		-316.7	-318.4		-1.7	-0.6	624602	-336.9	-328.7	-329.6	7.3	-0.9	-0.6



Wheeler County OGALLALA Aquifer 5 Year Average Change



Wheeler County OGALLALA Aquifer						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
528303	-297.1	-297.7	-297.8	-0.7	-0.1	-0.1
528602	-108.5	-117.3	-117.6	-9.1	-0.3	-0.2
528902	-31.1	-48.8	-40.6	-9.5	8.2	-1.0
528906	-168.8	-176.4	-177.0	-8.2	-0.6	-1.0
529201	-141.3	-140.9	-140.7	0.6	0.2	0.0
529404	-68.3	-70.7	-71.2	-2.9	-0.5	-0.1

Wheeler County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	5 Yr Avg Difference
529711	-66.8	-71.6	-71.5	-4.7	0.1	-0.3
529714	-8.5	-9.2	-10.5	-2.0	-1.3	-0.3
529812	-22.7	-23.8	-24.2	-1.5	-0.4	-0.1
529817	-71.2	-71.1	-72.0	-0.8	-0.9	-0.1
529818	-54.8	-56.0	-56.9	-2.1	-0.9	-0.2
529820	-76.4	-76.0	-77.2	-0.8	-1.2	-0.1
530501	-107.4	-109.3	-109.5	-2.1	-0.2	-0.2
530801	-66.7	-68.1	-68.2	-1.5	-0.1	-0.1
531307	-52.0	-53.6				-0.2
531406	-76.4	-82.9	-82.6	-6.2	0.3	0.0
531504	-34.3	-37.1	-37.0	-2.7	0.1	0.0
532107	-52.6	-54.1	-54.4	-1.8	-0.3	-0.3
532352	-96.6	-99.0	-99.9	-3.3	-0.9	-0.4
532601	-66.9	-72.5	-71.8	-4.9	0.7	-0.7
532904	-62.0	-64.3	-64.4	-2.4	-0.1	-0.1
532906	-19.6	-18.0	-19.3	0.3	-1.3	-0.1
536301	-133.9	-145.1	-145.6	-11.7	-0.5	-1.1
536306		-64.6	-65.2		-0.6	-0.7
537101	-86.4	-87.6	-88.0	-1.6	-0.4	-0.7
537102	-54.5	-59.0	-59.7	-5.2	-0.7	-0.5
538101	-6.8	-6.4	-7.4	-0.6	-1.0	0.0
538108	-122.0	-130.7	-130.2	-8.2	0.5	-0.5



Wheeler County Continued

Wheeler County OGALLALA Aquifer Continued						
Well Number	Depth to Water, in feet			Water Level Difference		Data Used to Make Maps
	2007	2016	2017	10 Yr	1 Yr	
						5 Yr Avg Difference
538312		-54.5	-60.1		-5.6	-0.3
538408	-91.1	-103.5	-106.3	-15.2	-2.8	-2.5
538409	-84.8	-92.5				-2.0
538510	-35.1	-43.0	-41.0	-5.9	2.0	-0.4
538511		-52.7	-44.7		8.0	0.0
538512		-51.2	-53.3		-2.1	-0.5
538610	-66.1	-71.3	-70.3	-4.2	1.0	-0.6
539110	-76.2	-76.3	-76.6	-0.4	-0.3	-0.5
539112		-41.5	-45.0		-3.5	-1.3
539408	-8.2	-5.0				-0.4
539410		-29.7	-29.9		-0.2	-0.1
539504	-49.4	-45.3	-45.4	4.0	-0.1	-0.2
539905	-39.1	-37.8	-40.4	-1.3	-2.6	-0.4
544305		-88.3	-88.6		-0.3	-0.2
544906	-106.6	-119.1	-110.3	-3.7	8.8	-0.4
544910		-94.1	-94.8		-0.7	-0.4
545103	-6.8	-6.3	-7.5	-0.7	-1.2	-0.2
545408	-106.0	-109.2	-109.2	-3.2	0.0	-0.4
545505	-106.8	-104.2	-106.4	0.4	-2.2	-0.6
545907	-50.7	-53.5	-48.8	1.9	4.7	0.0
552303	-42.0	-46.4	-46.4	-4.4	0.0	-0.4
552307	-73.7	-79.3	-81.4	-7.7	-2.1	-0.8
553102	-61.2	-72.2	-71.4	-10.2	0.8	-0.7
553205		-32.9	-43.4		-10.5	-2.5
553307		-42.8	-40.7		2.1	-0.8
553450	-39.4	-41.3	-41.5	-2.1	-0.2	-0.2
553507		-39.9	-39.1		0.8	0.0

Armstrong, Carson and Potter Counties DOCKUM Aquifer					
Well Number	Depth to Water, in feet			Water Level Difference	
	2007	2016	2017	10 Yr	1 Yr
625101	-261.8		-262.3	-0.5	-262.3
625201	-217.6			217.6	
625701		-154.9	-155	-155	-0.1
633201	-85.2	-84.8	-85.6	-0.4	-0.8
633301	-64.9	-64	-67.1	-2.2	-3.1

Armstrong, Carson and Potter Counties DOCKUM Aquifer					
Well Number	Depth to Water, in feet			Water Level Difference	
	2007	2016	2017	10 Yr	1 Yr
633401		-66.1	-66.6	-66.6	-0.5
634703	-85.8	-86.6		85.8	86.6
635201		-258.6			258.6
635301	-299.4	-315	-316.6	-17.2	-1.6
635626		-376.69	-420.58	-420.58	-43.89
635801	-136.8	-132.7	-134.3	2.5	-1.6
641102	-102	-97.3	-97.8	4.2	-0.5
641104	-139.3	-146.7	-147.3	-8	-0.6
641310	-40.3	-44.7	-32.6	7.7	12.1
641613		-96.7	-96.5	-96.5	0.2
641703	-305.9	-305.3	-304.2	1.7	1.1
641802	-104	-91	-95.9	8.1	-4.9
641803	-136.5			136.5	
641856		-130	-132.7	-132.7	-2.7
641931	-67.6	-59.2	-60.5	7.1	-1.3
642409	-67.1	-71.1	-72.1	-5	-1
642427		-145.3	-149.6	-149.6	-4.3
642502	-80.4		-77.1	3.3	-77.1
642714	-86.7	-70.8	-81	5.7	-10.2
642719	-137.1	-139.3	-127.5	9.6	11.8
642902	-223.4	-226.2	-228.8	-5.4	-2.6
642903		-179.6	-182.4	-182.4	-2.8
643421		-177.9	-179	-179	-1.1
643602	-321.2	-317.3	-317.8	3.4	-0.5
643606		-267.1	-269.8	-269.8	-2.7
643901	-210.7	-208.6	-204.5	6.2	4.1
644608	-430.6	-468.7	-472.6	-42	-3.9
644701	-250.5	-246.6	-247.8	2.7	-1.2
644763	-236.4	-232.5	-234.9	1.5	-2.4
644766	-227.1	-220.1	-224.4	2.7	-4.3
644767	-265.5	-259.4	-259.7	5.8	-0.3
644768	-270.9	-265.1	-265.1	5.8	
644906	-349.7	-349.6	-350	-0.3	-0.4
644959	-221	-220.4	-220.2	0.8	0.2
645903		-406.8	-407.5	-407.5	-0.7
649201	-113.7			113.7	
649203	-118.7	-98	-111.4	7.3	-13.4
649204	-123.7	-109.2	-127.5	-3.8	-18.3
649311	-55.7	-55.5	-54.8	0.9	0.7
650209	-208.9	-198	-196.1	12.8	1.9
650604	-201.7	-196.7	-196.2	5.5	0.5

Panhandle Water News

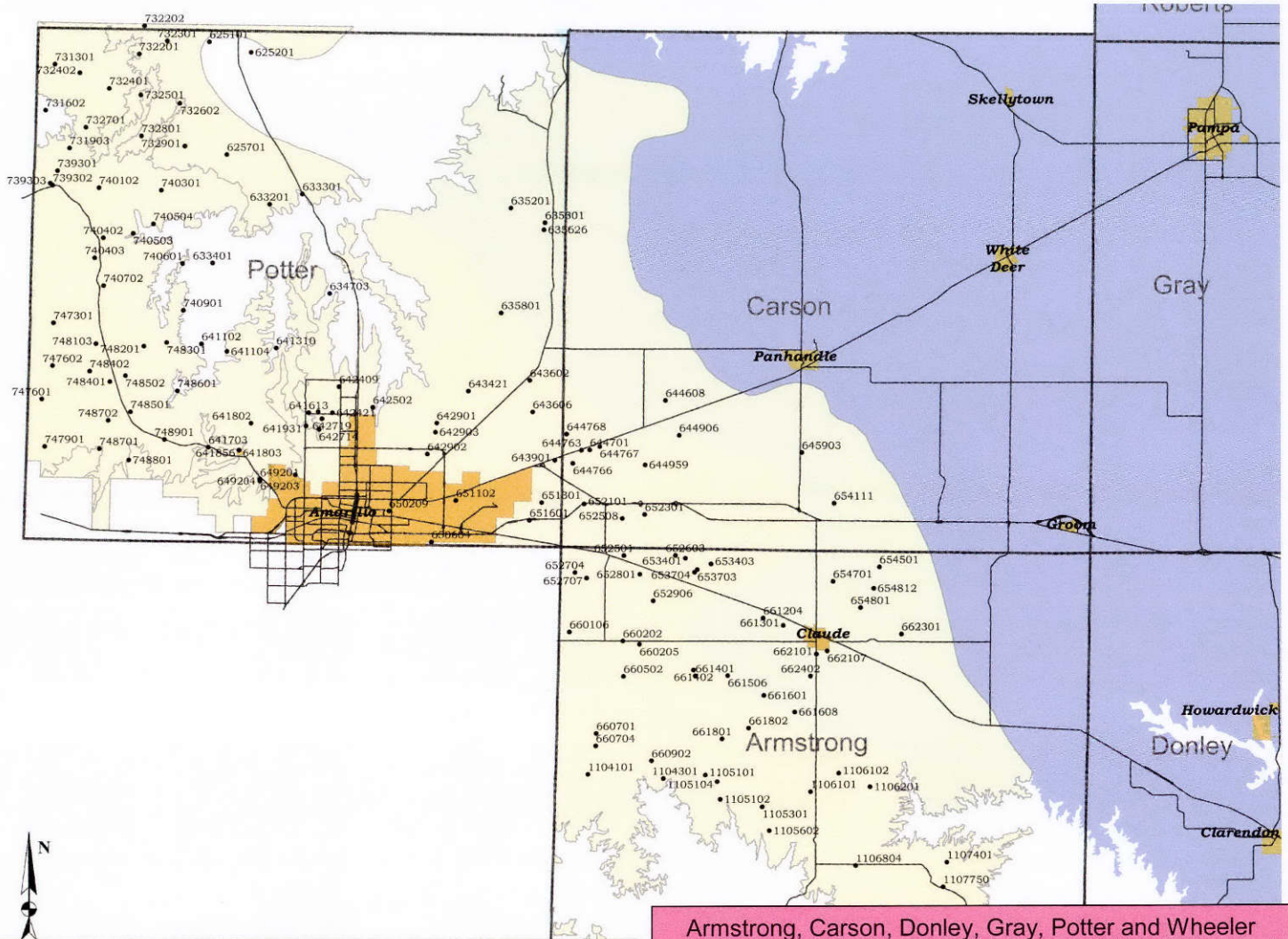


Armstrong, Carson and Potter Counties DOCKUM Aquifer					
Well Number	Depth to Water, in feet			Water Level Difference	
	2007	2016	2017	10 Yr	1 Yr
651102	-176.9	-170.7	-169.8	7.1	0.9
651301		-207.3	-207.3	-207.3	
651601	-191.2	-192	-191.6	-0.4	0.4
652101	-189.8	-194.8	-192.7	-2.9	2.1
652301	-199.3	-198.5	-199.2	0.1	-0.7
652501	-201.2	-201.2	-201.2		
652508	-202.6	-200.3	-202.5	0.1	-2.2
652603	-169.1			169.1	
652704	-172.3	-171.8	-175.3	-3	-3.5
652707	-221.4	-224.2	-225	-3.6	-0.8
652801	-172.4	-176.2	-176.3	-3.9	-0.1
652906		-125.9	-126.8	-126.8	-0.9
653401		-166.33	-166.64	-166.64	-0.31
653403	-181.7	-182.1	-181.7		0.4
653703	-183	-183	-181.7	1.3	1.3
654111		-343.6	-343.4	-343.4	0.2
654501	-254.8			254.8	
654701	-252.1	-252	-252.2	-0.1	-0.2
654801	-306	-291.1	-294.3	11.7	-3.2
654812		-255.6	-257.4	-257.4	-1.8
660106	-210.9	-208.7	-208.4	2.5	0.3
660202		-163.9	-163.9	-163.9	
660205	-161.4	-163.7	-163.6	-2.2	0.1
660502	-153.3	-152.2	-152	1.3	0.2
660701	-187.3			187.3	
660704		-192	-191.6	-191.6	0.4
660902	-212.7	-211.3	-208.9	3.8	2.4
661204	-165.8	-165	-164.5	1.3	0.5
661301	-159.1	-156.8	-156.2	2.9	0.6
661401	-164.7			164.7	
661402		-185	-185.4	-185.4	-0.4
661506		-161.5	-161.6	-161.6	-0.1
661601	-172	-170.8	-171.5	0.5	-0.7
661608	-162.3	-165.1	-166.6	-4.3	-1.5
661801	-163.1	-162.1	-162.4	0.7	-0.3
661802	-158.3	-156.6	-156.6	1.7	
662101	-207.4	-208.3	-207.9	-0.5	0.4
662107	-173.2	-184.4	-184.3	-11.1	0.1
662301		-284.5	-284.4	-284.4	0.1
662402	-146.8	-150.5	-150.6	-3.8	-0.1
731301	-24.9			24.9	

Armstrong, Carson and Potter Counties DOCKUM Aquifer					
Well Number	Depth to Water, in feet			Water Level Difference	
	2007	2016	2017	10 Yr	1 Yr
731602	-192.9	-149.3	-147.8	45.1	1.5
731903	-23.1	-22.3	-23.4	-0.3	-1.1
732201	-160.3	-162.5	-162.8	-2.5	-0.3
732202		-61.9	-65.8	-65.8	-3.9
732401	-31	-30.7	-31		-0.3
732402	-5.9	-15.4	-17.5	-11.6	-2.1
732501	-63.5	-60.4	-60.6	2.9	-0.2
732602	-39.8	-38.3	-38.6	1.2	-0.3
732701	-28	-26.2	-26.2	1.8	
732801	-131.1	-134.4	-134.3	-3.2	0.1
732901	-170.8	-171.6	-172.1	-1.3	-0.5
739301	-4.2	-4.8	-6.4	-2.2	-1.6
739302	-131.2			131.2	
739303		-97.8	-99.6	-99.6	-1.8
740102	-25.1	-24.7	-25.9	-0.8	-1.2
740301	-164.1	-166	-166.4	-2.3	-0.4
740402	-84.2	-85.3	-86.5	-2.3	-1.2
740403	-60.7	-59.4	-59.6	1.1	-0.2
740503	-31.3	-31.1	-32.6	-1.3	-1.5
740504	-24.1	-26.2	-27.7	-3.6	-1.5
740601	-78.9	-74.8	-74.1	4.8	0.7
740702	133.4			133.4	
740901	-127.7	-134	-133.4	-5.7	0.6
747301	-38.4			38.4	
747601	-41.6	-28.9	-41.9	-0.3	-13
747602	-86.7	-77.8	-77.8	8.9	
747901	-114.6	-115.5	-116.3	-1.7	-0.8
748103	-40.3	-40.4	-40.7	-0.4	-0.3
748201	-137.9			137.9	
748301	-56.9	-64.4	-66.3	-9.4	-1.9
748401	-41.9	-49	-47	-5.1	2
748402	-25.7	-26.5	-26.1	-0.4	0.4
748501	-26	-29.4	-41.9	-15.9	-12.5
748502	-82			82	
748601	-143.7		-131.2	12.5	-131.2
748701	-81.1	-83	-83.2	-2.1	-0.2
748702	-36.2	-44.5	-46.6	-10.4	-2.1
748801	-39.4	-42.5	-42.5	-3.1	
748901	-75	-74.6	-73.4	1.6	1.2
1104101	-200.7	-202.9	-197.1	3.6	5.8
1104301	-302.6	-300.4	-301.7	0.9	-1.3



Armstrong, Carson and Potter Counties DOCKUM Aquifer Well Locations



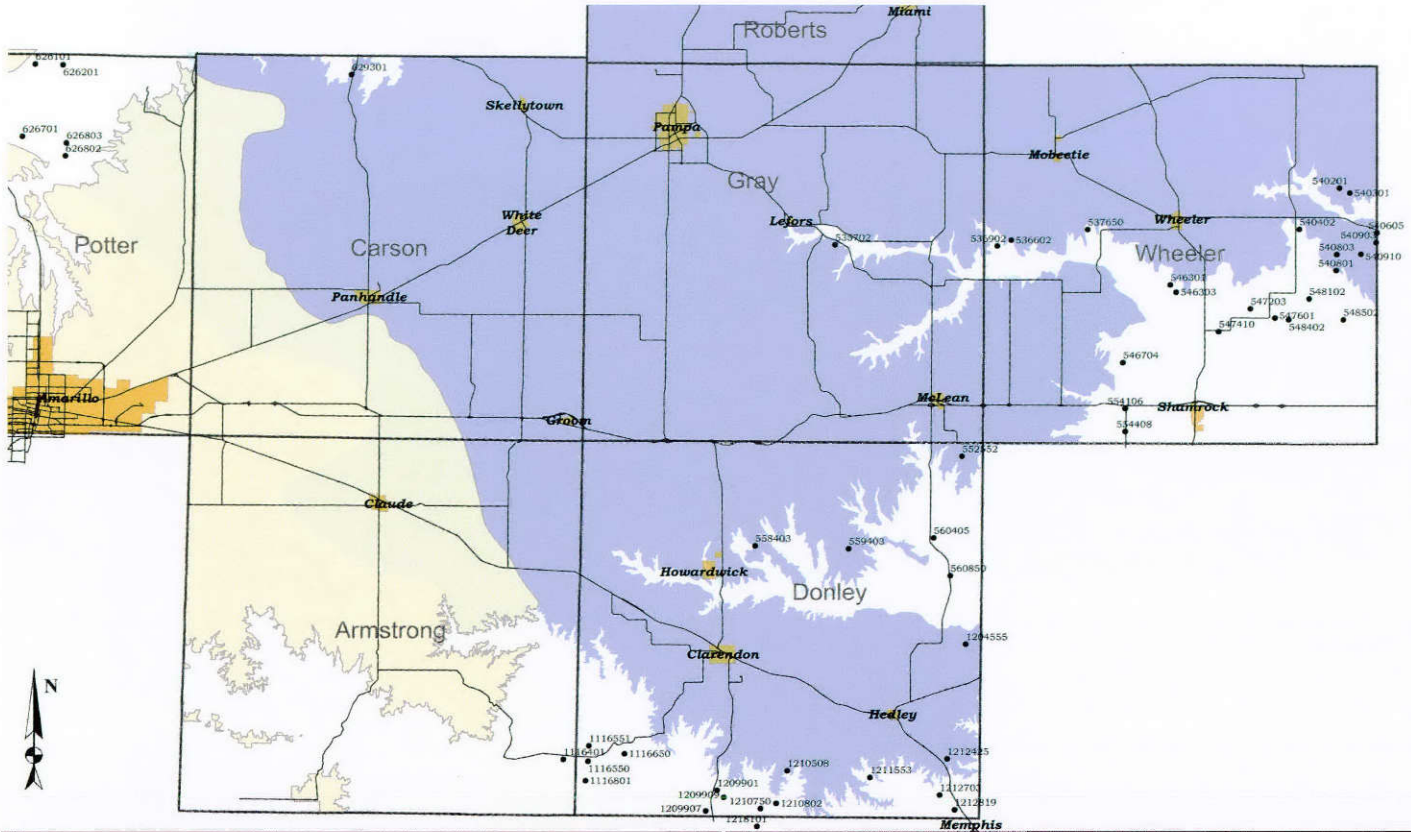
Armstrong, Carson, Donley, Gray, Potter and Wheeler Counties WHITEHORSE Aquifer

Armstrong, Carson and Potter Counties DOCKUM Aquifer					
Well Number	Depth to Water, in feet			Water Level Difference	
	2007	2016	2017	10 Yr	1 Yr
1105101	-188.7	-182.4	-186.8	1.9	-4.4
1105102	-161.3			161.3	
1105104	-174.3	-173.3	-175.6	-1.3	-2.3
1105301	-157.3	-157.8	-159.3	-2	-1.5
1105602	-173.2			173.2	
1106101	-175.2	-173.3	-173.6	1.6	-0.3
1106102	-162.2			162.2	
1106201	-159.5	-160.2	-162.9	-3.4	-2.7
1106804	-221.5	-217.1		221.5	217.1
1107401	-116.7	-117	-117.3	-0.6	-0.3
1107750	-124.2	-124.1	-125.8	-1.6	-1.7

Well Number	Depth to Water, in feet			Water Level Difference	
	2007	2016	2017	10 Yr	1 Yr
535702	-22.5	-21.5	-22.2	0.3	-0.7
536602	-36.4			36.4	
536902	-22.1	-8.2	-9.2	12.9	-1
537650	-11.6	-11.8	-11.7	-0.1	0.1
540201	-2.4	-11.7	-6.9	-4.5	4.8
540301	-50.9	-30.5	-35.3	15.6	-4.8
540402	-41.7	-34.7	-37.5	4.2	-2.8
540605	-44.3	-44.3	-44.8	-0.5	-0.5
540801	-21.9	-17.6	-19.6	2.3	-2
540803	-13.1	-5.1	-8.7	4.4	-3.6
540903	-61.6			61.6	
540910	-44.7	-45.9	-49.2	-4.5	-3.3
546301	-14.9	-15.1	-17	-2.1	-1.9



Armstrong, Carson, Donley, Gray, Potter and Wheeler Counties **WHITEHORSE** Aquifer Well Locations



Armstrong, Carson, Donley, Gray, Potter and Wheeler Counties WHITEHORSE Aquifer						Armstrong, Carson, Donley, Gray, Potter and Wheeler Counties WHITEHORSE Aquifer Continued					
Well Number	Depth to Water, in feet			Water Level Difference		Well Number	Depth to Water, in feet			Water Level Difference	
	2007	2016	2017	10 Yr	1 Yr		2007	2016	2017	10 Yr	1 Yr
546303	-11.4	-9.5	-10.9	0.5	-1.4	626803	-35.7	-41.1	-41.9	-6.2	-0.5
546704	-104.2	-104.5	-104.6	-0.4	-0.1	629301	-180.6	-184.5	-180.1	0.5	4.4
547203	-29.4	-28.3	-30	-0.6	-1.7	1116401		-59.2	-59.9	-59.9	-0.7
547410	-27.1	-21.5	-25.6	1.5	-4.1	1116550	-119.3	-117.9	-118.6	0.7	-0.7
547601	-53.3	-52.9	-53.3		-0.4	1116551	-128.8	-132.4	-130.4	-1.6	2
548102	-51.8			51.8		1116650	-5.4	-6.8	-11.5	-6.1	-4.7
548402						1116801	-48.6	-48.7	-43.7	4.9	5
548502	-39.5	-35.5	-37.2	2.3	-1.7	1204555	-6.2	-6.2		6.2	6.2
552552	-97.5	-96.7	-98.2	-0.7	-1.5	1209901	-65.5	-59.1	-51.2	14.3	7.9
554106	-56.3	-57.4	-58.3	-2	-0.9	1209907		-34.2	-26.9	-26.9	7.3
554408	-87.2	-88.2	-88.4	-1.2	-0.2	1209909		-155	-156	-156	-1
558403	-144.8	-133.7	-131.1	13.7	2.6	1210508	-24.8			24.8	
559403	-73.1	-73.6	-74	-0.9	-0.4	1210750	-50.9	-58.3	-56.1	-5.2	2.2
560405	-35.6	-42.3	-35.6		6.7	1210802	-131.4	-127.6		131.4	127.6
560850	-109.9	-111.1	-101.1	8.8	10	1211553	-24.3	-24	-22.5	1.8	1.5
626101	-31.2	-31.7	-31.7	-0.5		1212425		-35.4	-35.4	-35.4	
626201	-113.7		-117	-3.3	-117	1212703	-39.9			39.9	
626701	-45.3	-38	-39.4	5.9	-1.4	1212819		-31.3	-32.9	-32.9	-1.6
626802	-56.7	-48.5	-48.4	8.3	0.1	1218101			-24.2	-24.2	-24.2

DISTRICT OFFICE
201 W. Third St, PO Box 637
White Deer, TX 79097
Phone: 806/883-2501
FAX: 806/883-2162
Web Page: www.pgcd.us

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PANHANDLE GROUNDWATER
CONSERVATION DISTRICT
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WHITE DEER, TEXAS 79097

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Compromise Reached Between Le Norman & Valle De Oro Residents

PGCD held a regularly scheduled Board Meeting on June 8, 2017. Among the items discussed, was a complaint filed against Le Norman Operating regarding three oil and gas rig supply wells in Valle De Oro, located in Potter County. Le Norman drilled the three wells in April of this year, without proper permitting from the District. Two of the wells met the District's spacing requirement making the third well an illegal well.

Residents were concerned the rig supply wells will take away water from their individual wells. PGCD assisted in facilitating conversation between the residents and Le Norman. Board of Directors decided to allow Le Norman to continue pumping the two legal wells at the appropriate gallons per minute, while they look for an alternative water source to supply water for drilling.

PGCD staff members have since been to Valle De Oro to ensure they are pumping within regulations, and they have also measured other wells in the area. They have found no evidence of depletion from the pumping of Le Norman's wells.

It is also important to note, Le Norman is protected and within their rights according to Texas Water Code and are authorized to produce groundwater within the District's rules for oil and gas exploration.



Attendees at the June 8th Board Meeting

