PANHANDLE WATER NEWS

JULY 2023

THE 88TH TEXAS LEGISLATURE RECAP

The 88th Session of the Texas Legislature adjourned sine die on Monday, May 29, 2023. Recently, they wrapped up their second special session which focused mainly on property taxes. Throughout the regular session, the District tracked over 100 bills that affected Chapter 36 of the Texas Water Code and local government bills. Of the many bills tracked, few made it through both chambers. The five bills that were signed into law by Governor Greg Abbott that will make changes to Chapter 36 are outlined below:

HB 1971 outlines procedures for Board Members relating to approving or denying permits, provides clarification and more information regarding conflicts of interest for Board Members, and provides steps for those who want to appeal a District decision regarding permits. This act is effective immediately.

HB 2443 introduces a section in Chapter 36 that provides guidelines for a person with a real property interest in groundwater to petition the District to change a rule. The act states how long the District has to respond to such a petition. This act goes into effect on September 1, 2023.

HB 3059 amended the export fees section of Chapter 36 and increased the amount allowed for Districts to charge for water exported out of its boundary. The act goes into effect on September 1, 2023.

HB 3278 provides more transparency in the joint planning process and allows for more time for the planning group to publish information and receive additional public comments. This act goes into effect immediately.

SB 1746 allows for an additional exemption from District permitting rules and exempts drilling a water well for temporary use to supply water for a rig actively engaged in drilling a groundwater production well that is permitted by the District. The act goes into effect on September 1, 2023.

PANHANDLE GROUNDWATER
CONSERVATION DISTRICT

POINTS OF INTEREST

"*Conserving Water for Future Generations*"

PGCD AQUIFER WATER LEVEL MEASUREMENTS

Panhandle Groundwater Conservation District (PGCD) conducts water level measurements on over 750 wells throughout the District annually to determine changes in aquifer conditions.

The measurements taken are used to determine the current water level in the aquifer, quantify the volume of groundwater remaining, monitor long-term trends in water levels, and provide information needed to determine IRS depletion allowances in addition to evaluating the status of the District's adopted desired future conditions.

The maps in this newsletter reflect the changes in water levels from 2022 to 2023 (in feet). The District generated the 2023 maps using differences in water level measurements taken from designated monitoring wells. These water level changes are shows with graduated symbols and colors to give a clearer representation of the data collected.

PGCD Field Technicians conducted water level measurements from November 2022 to March 2023 during the timeframe where irrigation demands are lowest, allowing the District to obtain a more representative static water level. Every effort is made to capture this measurement when levels have recovered or stabilized. Despite our best efforts, sometimes a credible water level cannot be obtained. This may occur because the well is pumping, the casing is inaccessible, the well has collapsed, or the well site is no longer accessible. If a well poses repeated challenges for several years, we may remove or replace it in the monitoring network with a more suitable site.

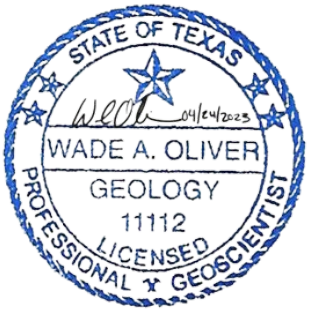
2023 DATA EXPLANATION

PGCD collects water level data on many wells throughout the District dating back as far as the 1950s. In this edition of the water level decline issue, the District mapped the 1-year difference at individual wells within our Annual Observation Well Network.

The column headings in the charts throughout this newsletter show (from left to right) (1) well number, (2) the initial year measured, (3) the initial depth measurement, (4) the 2022 water level depth, (5) the 2023 water level depth, (6) the initial depth measurement minus the current level depth during the period of record, (7) change in water level from 2022-2023 or the 1-year difference. The 1-year difference is the data used to create the maps in this newsletter.

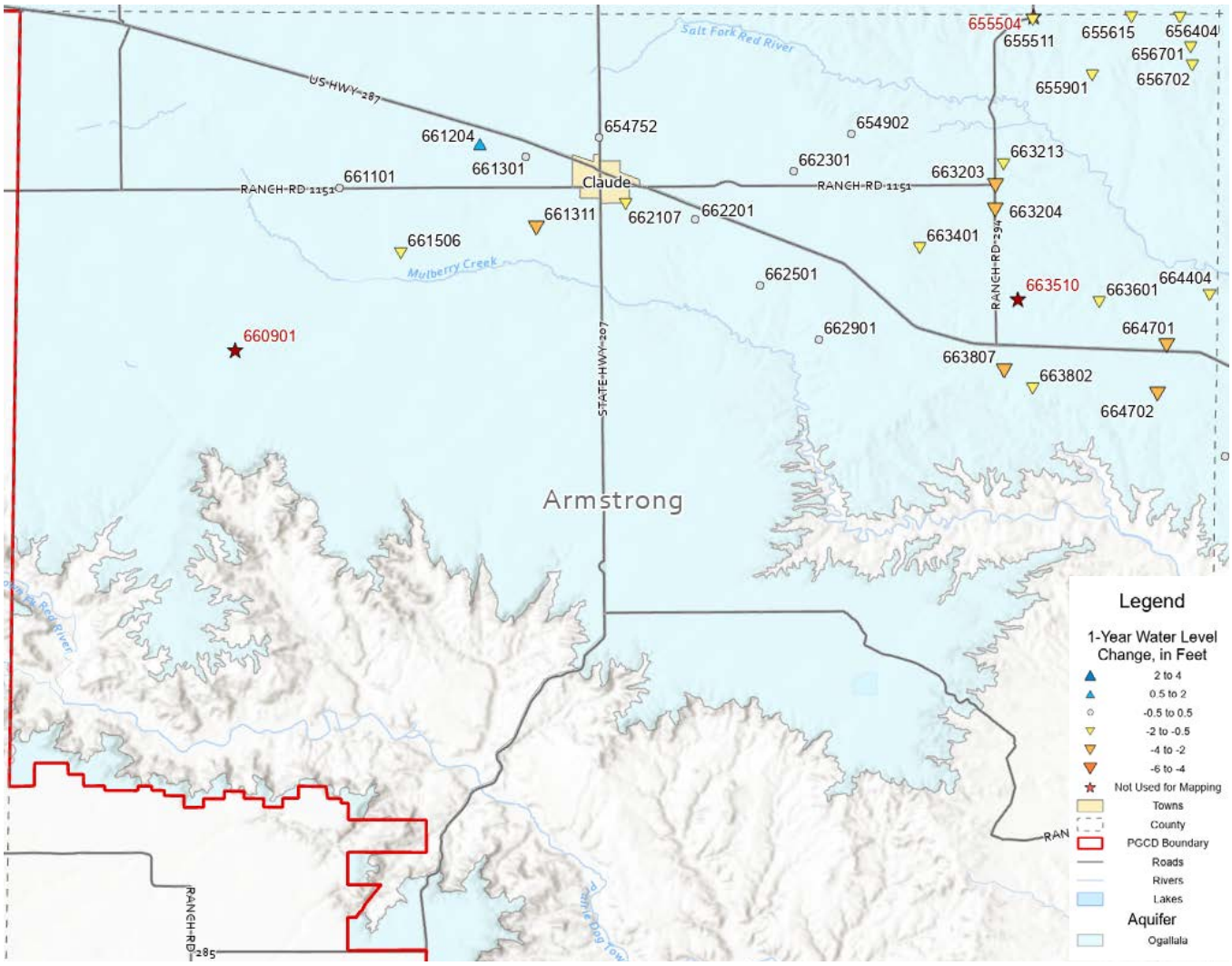
Statistical analysis was conducted on water level measurements to determine any outliers. Through this process the District determined measurements of 14 wells to be removed as outliers and an additional 24 wells to be removed because a credible water level could not be obtained before creating the change in water level maps. These wells are noted with a red star and red label text on the maps and tables shown in this publications.

For further explanation or more information, please contact the District at 806-883-2501. These maps were made by District Hydrogeologist, Ashley Ausbrooks, GIT and were developed under the supervision and with the final approval of Wade Oliver, Professional Geologist.



The groundwater-related technical information (text, maps and/or hydrographs) appearing in this newsletter were reviewed and approved by Wade Oliver, Professional Geologist.

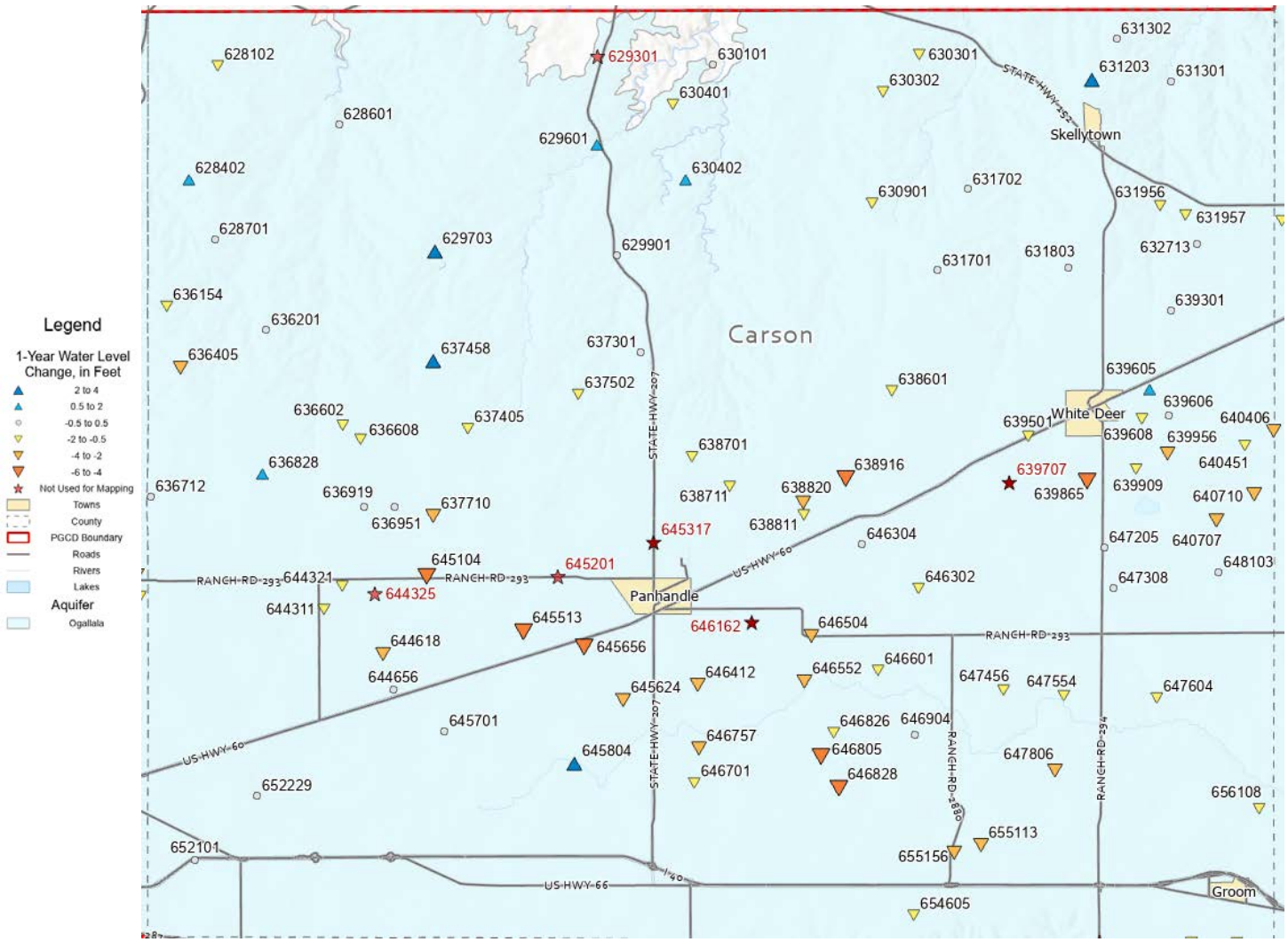
NORTHEAST ARMSTRONG COUNTY OGALLALA AQUIFER 1-YEAR CHANGE



Armstrong County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
654752	2003	-225.2	-183.2	-182.9	42.3	0.3
654902	1971	-295.0	-321.6	-321.2	-26.2	0.4
★ 655504	1976	-323.5	-	-365.1	-41.6	-
655511	2000	-340.7	-356.2	-357.5	-16.8	-1.3
655615	1975	-320.5	-366.4	-367.0	-46.5	-0.6
655901	1975	-220.2	-253.4	-254.4	-34.2	-1.0
656404	1982	-327.2	-364.6	-366.2	-39.0	-1.6
656701	2005	-334.7	-365.8	-367.7	-33.0	-1.9
656702	1975	-311.4	-348.3	-349.7	-38.3	-1.4
★ 660901	2022	-173.7	-173.7	-	-	-
661101	1958	-154.2	-154.2	-154.0	0.2	0.2
661204	2000	-167.0	-164.2	-163.5	3.5	0.7
661301	1954	-154.9	-156.1	-155.6	-0.7	0.5
661311	1975	-195.8	-197.4	-201.2	-5.4	-3.8
661506	2011	-156.7	-163.7	-164.5	-7.8	-0.8

Armstrong County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
662107	2005	-175.0	-184.2	-186.0	-11.0	-1.8
662201	1975	-185.0	-186.7	-186.8	-1.8	-0.1
662301	1975	-230.0	-284.2	-284.0	-54.0	0.2
662501	1958	-174.9	-181.7	-181.6	-6.7	0.1
662901	2005	-218.5	-218.4	-217.9	0.6	0.5
663203	2000	-169.4	-185.0	-187.1	-17.7	-2.1
663204	1975	-156.4	-180.8	-184.4	-28.0	-3.6
663213	2014	-161.8	-168.1	-169.8	-8.0	-1.7
663401	1975	-196.3	-198.9	-199.5	-3.2	-0.6
★ 663510	2022	-108.1	-108.1	-	-	-
663601	1983	-94.8	-104.2	-105.8	-11.0	-1.6
663802	1972	-190.0	-210.3	-211.4	-21.4	-1.1
663807	2014	-191.2	-191.4	-193.7	-2.5	-2.3
664404	1975	-112.0	-124.8	-126.2	-14.2	-1.4
664701	1955	-114.0	-155.6	-158.0	-44.0	-2.4
664702	1956	-132.4	-161.1	-164.0	-31.6	-2.9

CARSON COUNTY OGALLALA AQUIFER 1-YEAR CHANGE



Carson County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current	1 Year Difference
628102	1977	-181.7	-215.5	-217.1	-35.4	-1.6
628402	1977	-187.4	-203.8	-202.3	-14.9	1.5
628601	1958	-48.4	-71.6	-71.9	-23.5	-0.3
628701	1977	-238.1	-259.8	-259.5	-21.4	0.3
★ 629301	1977	-180.1	-188.2	-182.8	-2.7	5.4
629601	1982	-53.7	-53.4	-51.9	1.8	1.5
629703	2003	-286.6	-296.7	-293.9	-7.3	2.8
629901	1982	-76.8	-84.7	-85.0	-8.2	-0.3
630101	2004	-23.8	-30.8	-31.0	-7.2	-0.2
630301	1977	-147.6	-152.5	-153.4	-5.8	-0.9
630302	2003	-236.3	-225.2	-226.7	9.6	-1.5
630401	1977	-233.9	-155.1	-155.8	78.1	-0.7
630402	2003	-121.1	-120.4	-119.7	1.4	0.7
630901	2003	-333.3	-329.1	-330.7	2.6	-1.6
631203	1977	-295.2	-305.4	-301.7	-6.5	3.7
631301	1977	-118.2	-123.8	-123.9	-5.7	-0.1
631302	1981	-242.0	-249.8	-249.6	-7.6	0.2

Carson County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current	1 Year Difference
631701	1970	-380.0	-391.5	-391.8	-11.8	-0.3
631702	1981	-269.2	-281.8	-281.9	-12.7	-0.1
631803	2001	-396.1	-395.5	-395.0	1.1	0.5
631956	2001	-224.9	-226.8	-227.3	-2.4	-0.5
631957	2001	-327.9	-329.9	-330.4	-2.5	-0.5
632713	2017	-408.1	-407.9	-407.9	0.2	0.0
636154	2001	-303.5	-332.0	-333.0	-29.5	-1.0
636201	1977	-333.0	-372.8	-372.8	-39.8	0.0
636405	2011	-413.0	-434.2	-436.6	-23.6	-2.4
636602	1969	-416.0	-514.3	-515.5	-99.5	-1.2
636608	2013	-519.9	-530.9	-531.8	-11.9	-0.9
636712	2012	-416.2	-434.4	-434.2	-18.0	0.2
636828	2014	-544.4	-550.6	-549.4	-5.0	1.2
636919	1978	-442.0	-529.9	-529.7	-87.7	0.2
636951	2012	-484.8	-495.0	-495.2	-10.4	-0.2
637301	1981	-250.8	-287.9	-288.1	-37.3	-0.2
637405	1977	-386.8	-467.2	-468.2	-81.4	-1.0

CARSON COUNTY CONTINUED

Carson County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current	1 Year Difference
637458	2002	-416.7	-456.4	-452.6	-35.9	3.8
637502	2004	-305.6	-327.9	-329.3	-23.7	-1.4
637710	2004	-431.6	-461.4	-463.7	-32.1	-2.3
638601	1956	-306.5	-381.5	-382.3	-75.8	-0.8
638701	1956	-328.3	-441.6	-442.7	-114.4	-1.1
638711	2001	-431.5	-463.6	-465.2	-33.7	-1.6
638811	1974	-360.3	-473.0	-474.6	-114.3	-1.6
638820	2015	-446.4	-470.7	-473.2	-26.8	-2.5
638916	1999	-404.6	-453.8	-458.9	-54.3	-5.1
639301	1958	-383.4	-399.1	-399.2	-15.8	-0.1
639501	1958	-284.4	-386.3	-386.9	-102.5	-0.6
639605	2005	-395.0	-288.6	-287.3	107.7	1.3
639606	2005	-377.7	-357.1	-356.9	20.8	0.2
639608	2005	-353.9	-365.6	-366.4	-12.5	-0.8
★ 639707	2000	-380.4	-409.7	-	-	-
639865	2001	-396.9	-419.4	-423.5	-26.6	-4.1
639909	2000	-352.4	-362.9	-364.6	-12.2	-1.7
639956	2001	-371.7	-391.4	-393.5	-21.8	-2.1
640406	2016	-399.3	-404.8	-406.8	-7.5	-2.0
640451	2014	-393.8	-399.6	-400.6	-6.8	-1.0
640707	2016	-396.0	-402.6	-404.8	-8.8	-2.2
640710	2020	-354.1	-354.8	-356.8	-2.7	-2.0
644311	1956	-387.0	-525.9	-527.1	-140.1	-1.2
644321	2014	-518.3	-536.0	-537.8	-19.5	-1.8
★ 644325	2015	-494.4	-512.2	-523.0	-28.6	-10.8
644618	2006	-439.7	-469.7	-473.2	-33.5	-3.5
644656	2000	-433.0	-449.5	-449.1	-16.1	0.4
645104	2001	-417.7	-460.5	-465.1	-47.4	-4.6
★ 645201	2013	-436.7	-458.3	-467.7	-31.0	-9.4
★ 645317	2023	-	-	-	-	-

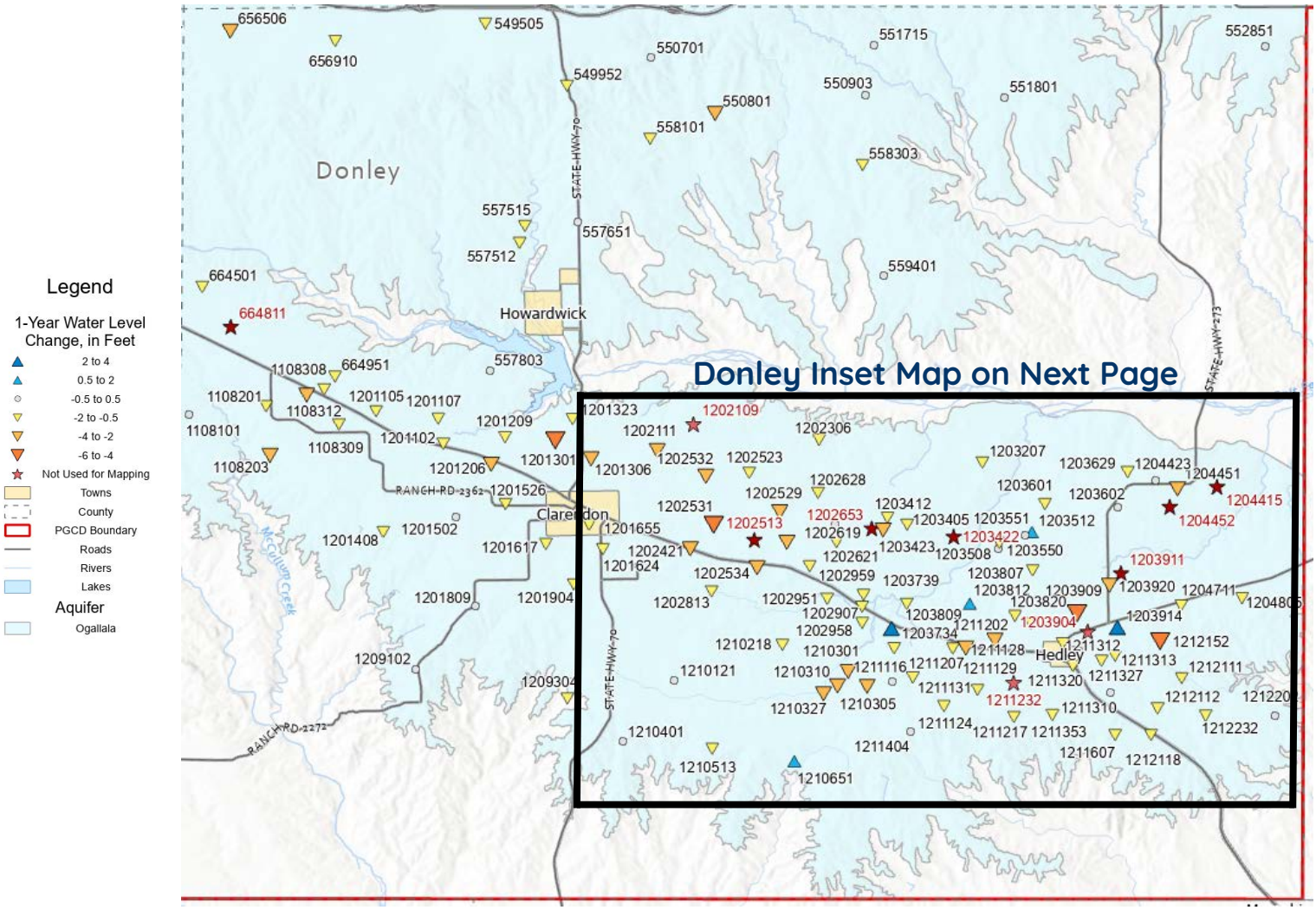
Carson County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current	1 Year Difference
645513	2001	-435.1	-469.2	-473.2	-38.1	-4.0
645624	2015	-425.9	-438.5	-440.7	-14.8	-2.2
645656	2022	-453.6	-453.6	-457.8	-4.2	-4.2
645701	1956	-337.8	-392.5	-392.7	-54.9	-0.2
645804	1994	-323.1	-339.8	-335.8	-12.7	4.0
★ 646162	2002	-374.9	-389.5	-	-	-
646302	1961	-294.5	-391.8	-393.0	-98.5	-1.2
646304	2011	-415.9	-448.2	-448.4	-32.5	-0.2
646412	2010	-405.7	-439.7	-442.8	-37.1	-3.1
646504	2000	-387.2	-407.1	-409.5	-22.3	-2.4
646552	2000	-354.7	-376.6	-379.1	-24.4	-2.5
646601	1956	-295.2	-384.5	-385.3	-90.1	-0.8
646701	1956	-325.9	-374.8	-376.0	-50.1	-1.2
646757	2003	-375.4	-406.6	-408.8	-33.4	-2.2
646805	2021	-410.1	-411.7	-415.8	-5.7	-4.1
646826	2016	-391.8	-413.0	-414.2	-22.4	-1.2
646828	2018	-384.8	-401.7	-406.0	-21.2	-4.3
646904	2000	-360.5	-379.0	-379.3	-18.8	-0.3
647205	1956	-297.0	-383.7	-384.0	-87.0	-0.3
647308	1969	-296.5	-298.3	-298.4	-1.9	-0.1
647456	2018	-350.9	-357.4	-357.9	-7.0	-0.5
647554	2002	-318.4	-316.2	-317.9	0.5	-1.7
647604	1980	-286.4	-331.6	-332.9	-46.5	-1.3
647806	2002	-352.1	-383.8	-387.6	-35.5	-3.8
648103	2016	-317.4	-319.1	-319.0	-1.6	0.1
652101	1982	-194.6	-192.4	-192.5	2.1	-0.1
652229	2017	-214.8	-215.0	-215.2	-0.4	-0.2
654605	2018	-387.6	-394.3	-396.0	-8.4	-1.7
655113	1999	-369.5	-404.7	-407.2	-37.7	-2.5
655156	2002	-371.2	-404.7	-406.7	-35.5	-2.0
656108	1968	-370.0	-318.9	-320.7	49.3	-1.8

THE PANHANDLE RUNS ON WATER-AWARENESS CAMPAIGN

Texas Water Foundation (TWF) is a nonprofit organization that believes everything you love about Texas is rooted in water. TWF offers nonpartisan research-driven policy analysis and invites all Texans to participate in the future of our water.

One of the many ways TWF is involved in our area is through its Panhandle Runs on Water Campaign. This campaign brings awareness to how much the Panhandle uses and is fueled by water. From agriculture and beef industry statistics, to informative articles about the Ogallala Aquifer, TWF works hard to bring awareness to the fact that water is the key ingredient for life in The Panhandle.
To see more information about The Panhandle Runs on Water, please visit https://texasrunsonwater.org/regions/panhandle.

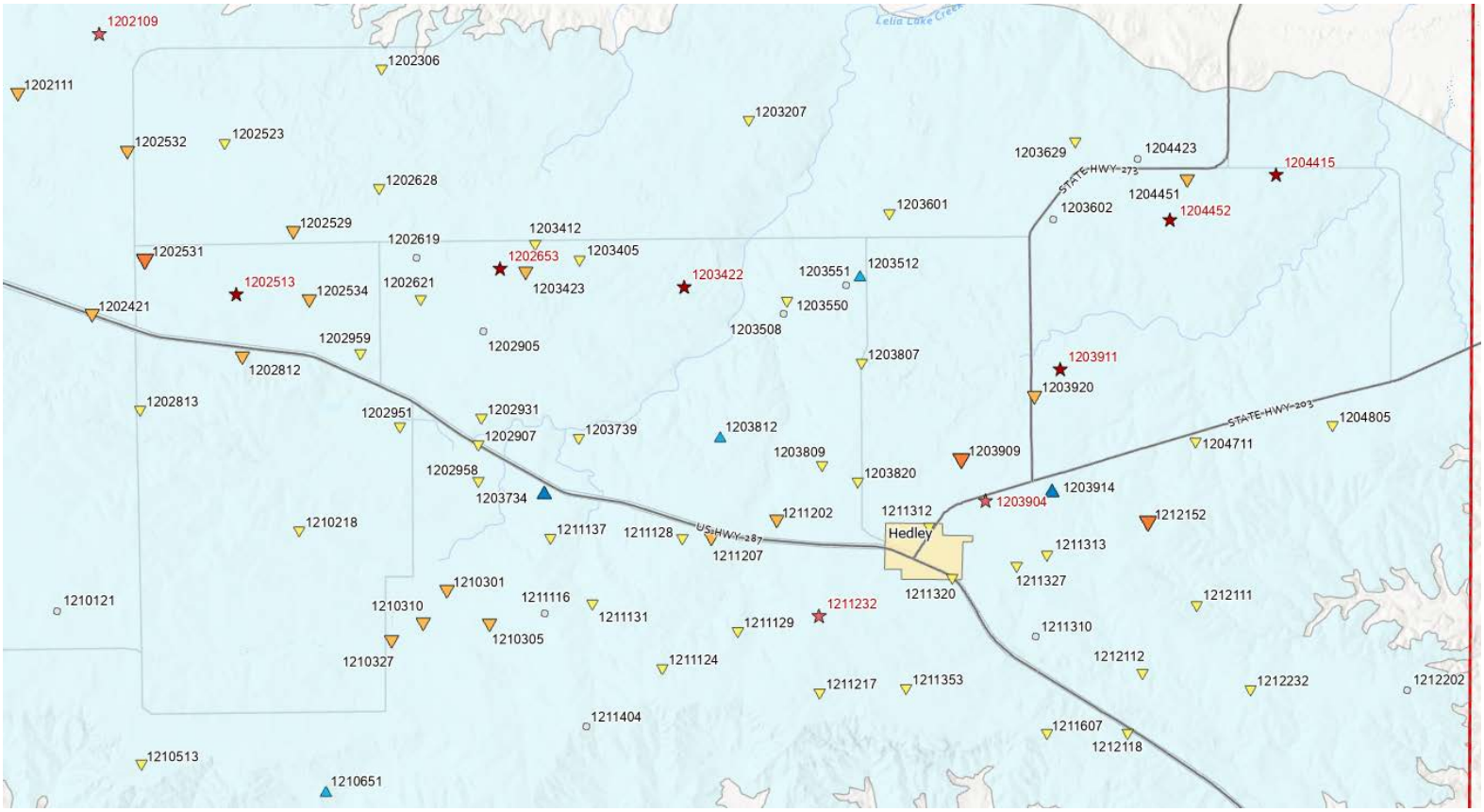
DONLEY COUNTY OGALLALA AQUIFER 1-YEAR CHANGE



Donley County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
549505	2018	-340.2	-351.5	-352.6	-12.4	-1.1
549952	2010	-249.4	-255.6	-256.4	-7.0	-0.8
550701	1976	-113.9	-112.5	-112.4	1.5	0.1
550801	2001	-85.8	-103.5	-105.6	-19.8	-2.1
550903	1977	-120.0	-103.1	-103.3	16.7	-0.2
551715	1976	-133.5	-114.4	-114.7	18.8	-0.3
551801	1976	-95.7	-96.0	-96.3	-0.6	-0.3
552851	2001	-120.4	-125.3	-125.6	-5.2	-0.3
557512	1999	-38.7	-42.1	-43.6	-4.9	-1.5
557515	2018	-71.2	-71.3	-71.9	-0.7	-0.6
557651	2017	-90.7	-92.0	-92.3	-1.6	-0.3
557803	1976	-89.1	-91.1	-91.3	-2.2	-0.2
558101	2002	-107.0	-110.6	-111.4	-4.4	-0.8
558303	1977	-44.6	-46.2	-47.9	-3.3	-1.7
559401	2022	-113.6	-113.6	-113.7	-0.1	-0.1
656506	1999	-274.0	-354.7	-357.2	-83.2	-2.5
656910	2017	-330.2	-338.1	-339.5	-9.3	-1.4

Donley County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
664501	1958	-109.3	-132.2	-133.2	-23.9	-1.0
★ 664811	1976	-96.2	-129.0	-	-	-
664951	2000	-62.8	-76.4	-76.9	-14.1	-0.5
1108101	1999	-96.5	-107.3	-107.7	-11.2	-0.4
1108201	1958	-106.5	-142.0	-143.2	-36.7	-1.2
1108203	1977	-36.3	-61.5	-63.5	-27.2	-2.0
1108308	1955	-54.5	-90.5	-91.7	-37.2	-1.2
1108309	2001	-70.5	-98.6	-100.5	-30.0	-1.9
1108312	2000	-68.6	-99.0	-101.4	-32.8	-2.4
1201102	1958	-31.4	-45.8	-47.4	-16.0	-1.6
1201105	2017	-86.8	-94.2	-94.8	-8.0	-0.6
1201107	2004	-46.5	-56.1	-57.3	-10.8	-1.2
1201206	1968	-79.1	-78.9	-81.8	-2.7	-2.9
1201209	2010	-44.2	-54.6	-56.0	-11.8	-1.4
1201301	1958	-27.6	-67.1	-71.7	-44.1	-4.6
1201306	1976	-51.6	-80.1	-83.1	-31.5	-3.0
1201323	2010	-124.1	-148.0	-149.8	-25.7	-1.8

DONLEY COUNTY CONTINUED



Donley County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
1201408	2017	-100.5	-103.3	-104.0	-3.5	-0.7
1201502	1968	-162.6	-136.3	-136.2	26.4	0.1
1201526	2010	-103.2	-107.7	-108.3	-5.1	-0.6
1201617	1980	-129.5	-121.5	-122.2	7.3	-0.7
1201624	1977	-112.2	-111.4	-112.8	-0.6	-1.4
1201655	2001	-55.0	-70.2	-71.2	-16.2	-1.0
1201809	2015	-218.5	-213.4	-213.7	4.8	-0.3
1201904	1980	-152.4	-150.9	-151.9	0.5	-1.0
★ 1202109	2010	-96.0	-114.7	-107.9	-11.9	6.8
1202111	2015	-115.4	-124.9	-126.9	-11.5	-2.0
1202306	1977	-49.2	-56.6	-57.9	-8.7	-1.3
1202421	2010	-26.2	-40.6	-43.1	-16.9	-2.5
★ 1202513	2010	-71.4	-101.8	-	-	-
1202523	2010	-84.4	-103.3	-104.5	-20.1	-1.2
1202529	2010	-75.5	-101.9	-105.3	-29.8	-3.4
1202531	2010	-59.4	-89.0	-93.5	-34.1	-4.5
1202532	2016	-75.1	-88.3	-90.9	-15.8	-2.6

Donley County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
1202534	2012	-65.8	-84.1	-87.5	-21.7	-3.4
1202619	2010	-75.2	-98.0	-98.1	-22.9	-0.1
1202621	2010	-52.7	-74.5	-75.9	-23.2	-1.4
1202628	2010	-49.5	-66.1	-67.7	-18.2	-1.6
★ 1202653	2010	-99.0	-96.0	-	-	-
1202812	1977	-18.8	-46.3	-48.9	-30.1	-2.6
1202813	2010	-81.9	-88.7	-89.6	-7.7	-0.9
1202905	2010	-68.6	-85.2	-85.6	-17.0	-0.4
1202907	2000	-12.0	-22.1	-23.0	-11.0	-0.9
1202931	1977	-39.0	-48.9	-50.2	-11.2	-1.3
1202951	2007	-15.1	-29.9	-31.5	-16.4	-1.6
1202958	2008	-11.5	-22.3	-23.6	-12.1	-1.3
1202959	2013	-60.5	-73.1	-75.0	-14.5	-1.9
1203207	1976	-77.1	-84.8	-85.3	-8.2	-0.5
1203405	2000	-62.9	-89.9	-91.4	-28.5	-1.5
1203412	2010	-80.6	-94.1	-95.2	-14.6	-1.1
★ 1203422	2010	-39.8	-47.5	-	-	-

DONLEY COUNTY CONTINUED

Donley County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
1203423	2010	-89.6	-109.6	-111.8	-22.2	-2.2
1203508	2012	-83.5	-79.5	-79.9	3.6	-0.4
1203512	2010	-111.0	-115.0	-114.0	-3.0	1.0
1203550	2010	-93.1	-90.4	-91.4	1.7	-1.0
1203551	2010	-112.8	-115.6	-116.0	-3.2	-0.4
1203601	1968	-103.7	-105.8	-106.7	-3.0	-0.9
1203602	2010	-111.8	-123.7	-123.3	-11.5	0.4
1203629	2018	-95.8	-100.0	-101.6	-5.8	-1.6
1203734	2009	-34.9	-38.6	-35.9	-1.0	2.7
1203739	2015	-27.1	-29.4	-29.9	-2.8	-0.5
1203807	2017	-125.3	-129.3	-130.3	-5.0	-1.0
1203809	2009	-55.3	-65.1	-66.1	-10.8	-1.0
1203812	2012	-81.7	-93.4	-92.5	-10.8	0.9
1203820	2010	-70.5	-78.7	-79.8	-9.3	-1.1
★ 1203904	1978	-69.8	-82.8	-90.4	-20.6	-7.6
1203909	2010	-83.8	-98.6	-103.1	-19.3	-4.5
★ 1203911	2007	-46.8	-56.2	-	-	-
1203914	2010	-96.6	-113.7	-111.6	-15.0	2.1
1203920	2014	-51.9	-56.2	-58.7	-6.8	-2.5
★ 1204415	2010	-97.0	-111.0	-	-	-
1204423	2017	-125.6	-132.7	-133.1	-7.5	-0.4
1204451	2007	-122.6	-144.1	-146.3	-23.7	-2.2
★ 1204452	2009	-127.4	-	-	-	-
1204711	2009	-45.0	-38.8	-40.0	5.0	-1.2
1204805	1982	-42.2	-40.7	-41.3	0.9	-0.6
1209102	2001	-99.7	-102.0	-102.4	-2.7	-0.4
1209304	1976	-22.7	-27.6	-28.7	-6.0	-1.1
1210121	2006	-129.3	-137.8	-138.1	-8.8	-0.3
1210218	1976	-67.9	-68.4	-68.9	-1.0	-0.5
1210301	2000	-9.2	-25.4	-27.4	-18.2	-2.0

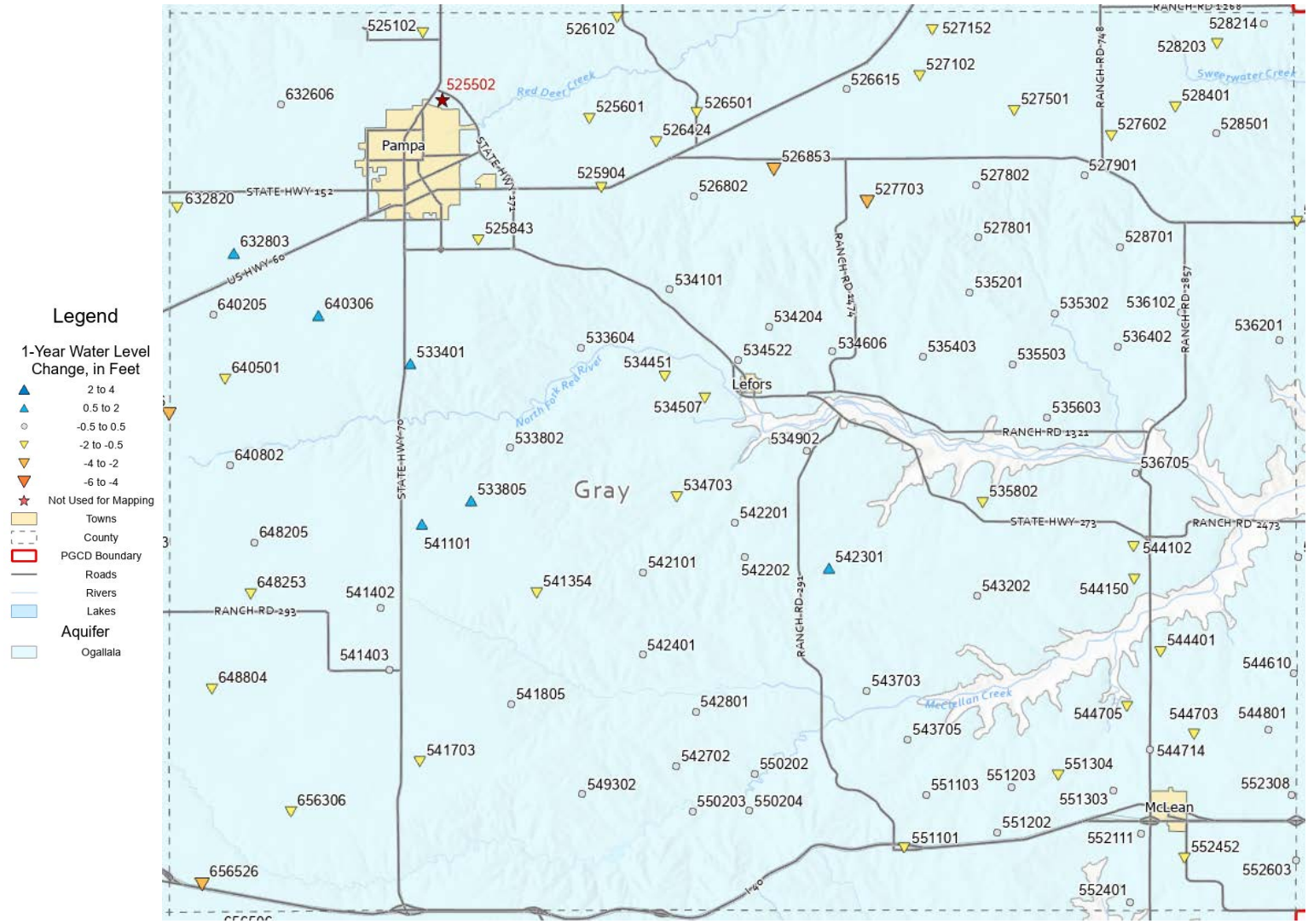
Donley County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
1210305	1976	-31.5	-49.0	-51.1	-19.6	-2.1
1210310	2000	-19.8	-38.5	-40.8	-21.0	-2.3
1210327	2015	-47.0	-48.9	-51.7	-4.7	-2.8
1210401	1958	-111.6	-114.3	-114.4	-2.8	-0.1
1210513	2004	-116.2	-118.5	-119.0	-2.8	-0.5
1210651	2011	-67.8	-68.9	-68.1	-0.3	0.8
1211116	2010	-112.4	-120.3	-120.6	-8.2	-0.3
1211124	2009	-182.8	-190.2	-191.1	-8.3	-0.9
1211128	2021	-131.2	-133.2	-134.5	-3.3	-1.3
1211129	2009	-167.7	-169.2	-170.1	-2.4	-0.9
1211131	2009	-76.2	-84.1	-84.8	-8.6	-0.7
1211137	2017	-113.1	-115.2	-116.5	-3.4	-1.3
1211202	2015	-56.6	-55.2	-58.2	-1.6	-3.0
1211207	1961	-82.4	-115.2	-118.6	-36.2	-3.4
1211217	2017	-143.7	-146.1	-146.9	-3.2	-0.8
★ 1211232	2010	-165.5	-191.2	-181.0	-15.5	10.2
1211310	1976	-85.0	-81.1	-80.7	4.3	0.4
1211312	2010	-57.4	-68.2	-69.8	-12.4	-1.6
1211313	2010	-147.1	-161.8	-162.5	-15.4	-0.7
1211320	2009	-83.1	-92.9	-94.5	-11.4	-1.6
1211327	2010	-119.0	-129.4	-130.6	-11.6	-1.2
1211353	1997	-104.1	-113.2	-114.1	-10.0	-0.9
1211404	1976	-191.1	-201.1	-201.3	-10.2	-0.2
1211607	2009	-133.3	-136.0	-137.4	-4.1	-1.4
1212111	2009	-59.5	-64.8	-65.5	-6.0	-0.7
1212112	2007	-85.2	-88.6	-90.1	-4.9	-1.5
1212118	2009	-72.9	-92.2	-93.3	-20.4	-1.1
1212152	2009	-94.5	-99.9	-104.7	-10.2	-4.8
1212202	1976	-89.8	-87.7	-87.8	2.0	-0.1
1212232	2009	-109.3	-109.5	-110.5	-1.2	-1.0

XERISCAPE GARDENING

PGCD's Xeriscape Garden

Xeriscape is a method of gardening that requires choosing the appropriate plants for the location which can be maintained with little supplemental watering. Advantages include: Lower water bills, more water available for other uses, less time and work needed for maintenance, little to no lawn mowing, and it provides an increased habitat for native bees, butterflies and other fauna. If you would like more information about drought tolerant plants, please contact Aspen Edgar at 806-883-2501 or visit our website at www.pgcd.us/xeriscape-garden.

GRAY COUNTY OGALLALA AQUIFER 1-YEAR CHANGE



Gray County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
525102	2014	-393.7	-392.7	-393.8	-0.1	-1.1
★ 525502	1969	-352.1	-354.4	-	-	-
525601	2002	-369.0	-372.4	-374.1	-5.1	-1.7
525843	2014	-377.8	-379.0	-380.4	-2.6	-1.4
525904	1958	-347.9	-371.8	-372.6	-24.7	-0.8
526102	2006	-370.0	-360.8	-361.4	8.6	-0.6
526424	2019	-380.9	-381.8	-382.6	-1.7	-0.8
526615	2015	-370.7	-384.5	-384.9	-14.2	-0.4
526802	1999	-355.2	-361.8	-361.6	-6.4	0.2
526853	1999	-364.7	-373.6	-376.4	-11.7	-2.8
527102	1961	-343.1	-372.5	-373.7	-30.6	-1.2
527152	2009	-344.3	-353.3	-354.0	-9.7	-0.7
527501	1980	-346.1	-357.2	-359.1	-13.0	-1.9
527602	1975	-324.0	-338.2	-339.3	-15.3	-1.1
527703	1980	-360.2	-378.8	-380.8	-20.6	-2.0
527801	1968	-117.0	-136.8	-137.1	-20.1	-0.3
527802	1975	-342.0	-347.6	-347.7	-5.7	-0.1

Gray County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
527901	1958	-331.5	-343.5	-343.4	-11.9	0.1
528203	1994	-340.6	-344.7	-345.2	-4.6	-0.5
528214	2012	-348.2	-351.3	-351.4	-3.2	-0.1
528401	1958	-320.6	-336.7	-337.8	-17.2	-1.1
528501	1974	-297.0	-287.3	-287.4	9.6	-0.1
528701	2014	-112.5	-114.1	-114.3	-1.8	-0.2
533401	1958	-324.8	-352.7	-350.8	-26.0	1.9
533604	1999	-76.7	-79.1	-79.2	-2.5	-0.1
533802	1971	-210.0	-212.2	-212.3	-2.3	-0.1
533805	2010	-342.9	-345.6	-344.9	-2.0	0.7
534101	1966	-150.0	-143.8	-144.2	5.8	-0.4
534204	1965	-180.0	-197.2	-196.7	-16.7	0.5
534451	2002	-108.8	-111.7	-112.4	-3.6	-0.7
534507	1977	-33.2	-35.1	-35.6	-2.4	-0.5
534522	2016	-54.0	-76.7	-76.9	-22.9	-0.2
534606	1977	-74.0	-75.5	-75.6	-1.6	-0.1
534703	1962	-85.0	-77.1	-77.6	7.4	-0.5

GRAY COUNTY CONTINUED

Gray County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
534902	1977	-73.0	-71.9	-71.8	1.2	0.1
535201	1968	-109.9	-123.1	-123.3	-13.4	-0.2
535302	1969	-14.0	-17.2	-17.3	-3.3	-0.1
535403	1968	-120.0	-127.2	-127.3	-7.3	-0.1
535503	1978	-77.0	-76.9	-76.8	0.2	0.1
535603	1977	-77.0	-77.4	-77.6	-0.6	-0.2
535802	1968	-116.2	-120.2	-120.7	-4.5	-0.5
536102	1979	-163.0	-168.5	-168.7	-5.7	-0.2
536201	1968	-143.2	-153.4	-153.8	-10.6	-0.4
536402	1978	-9.3	-8.6	-8.7	0.6	-0.1
536705	1978	-5.5	-6.8	-6.9	-1.4	-0.1
541101	1958	-339.6	-377.9	-377.2	-37.6	0.7
541354	2012	-354.8	-361.5	-362.2	-7.4	-0.7
541402	2015	-318.8	-320.6	-320.7	-1.9	-0.1
541403	1981	-290.4	-297.7	-298.1	-7.7	-0.4
541703	2019	-260.6	-260.8	-261.8	-1.2	-1.0
541805	2018	-269.8	-267.2	-267.6	2.2	-0.4
542101	1968	-252.2	-264.2	-264.3	-12.1	-0.1
542201	1968	-127.7	-132.8	-132.9	-5.2	-0.1
542202	1977	-257.6	-263.1	-263.3	-5.7	-0.2
542301	1968	-136.4	-141.7	-140.9	-4.5	0.8
542401	1968	-193.9	-203.5	-203.4	-9.5	0.1
542702	1978	-144.7	-145.7	-145.9	-1.2	-0.2
542801	1968	-76.6	-82.1	-82.3	-5.7	-0.2
543202	1978	-111.4	-112.9	-113.2	-1.8	-0.3
543703	1968	-15.3	-16.7	-16.8	-1.5	-0.1
543705	1967	-105.0	-107.8	-107.7	-2.7	0.1
544102	1977	-140.7	-141.5	-142.4	-1.7	-0.9
544150	2022	-38.1	-38.1	-38.8	-0.7	-0.7
544401	1968	-64.0	-67.3	-68.9	-4.9	-1.6

Gray County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
544610	1967	-178.0	-187.4	-187.8	-9.8	-0.4
544703	1977	-132.6	-132.3	-132.8	-0.2	-0.5
544705	1977	-66.0	-66.1	-66.7	-0.7	-0.6
544714	2006	-109.8	-116.7	-117.1	-7.3	-0.4
544801	1968	-116.1	-115.5	-115.3	0.8	0.2
549302	2005	-214.0	-197.7	-197.8	16.2	-0.1
550202	1977	-25.7	-23.9	-23.7	2.0	0.2
550203	1977	-58.4	-57.9	-57.7	0.7	0.2
550204	1978	-55.1	-52.8	-53.1	2.0	-0.3
551101	1968	-216.0	-216.7	-217.6	-1.6	-0.9
551103	1991	-138.7	-139.4	-139.7	-1.0	-0.3
551202	1977	-193.9	-195.6	-195.9	-2.0	-0.3
551203	1977	-152.0	-158.6	-158.9	-6.9	-0.3
551303	1968	-110.7	-113.7	-113.5	-2.8	0.2
551304	1978	-76.4	-79.5	-80.1	-3.7	-0.6
552111	1977	-112.6	-112.0	-111.9	0.7	0.1
552308	1967	-107.0	-105.9	-106.3	0.7	-0.4
552401	1968	-85.8	-74.4	-74.8	11.0	-0.4
552452	2001	-105.7	-113.1	-114.2	-8.5	-1.1
552603	1967	-21.0	-21.6	-21.7	-0.7	-0.1
632606	1980	-378.8	-368.5	-368.9	9.9	-0.4
632803	1967	-375.0	-397.5	-395.8	-20.8	1.7
632820	2015	-369.2	-369.7	-370.2	-1.0	-0.5
640205	1982	-384.3	-389.7	-389.8	-5.5	-0.1
640306	1980	-389.4	-391.9	-391.0	-1.6	0.9
640501	1980	-362.7	-379.4	-380.2	-17.5	-0.8
640802	1968	-326.5	-376.6	-376.9	-50.4	-0.3
648205	2014	-378.8	-383.1	-383.3	-4.5	-0.2
648253	1974	-340.0	-361.8	-362.8	-22.8	-1.0
648804	2013	-289.8	-293.3	-293.8	-4.0	-0.5
656306	1980	-273.6	-293.6	-294.8	-21.2	-1.2
656526	2013	-304.4	-318.8	-321.1	-16.7	-2.3

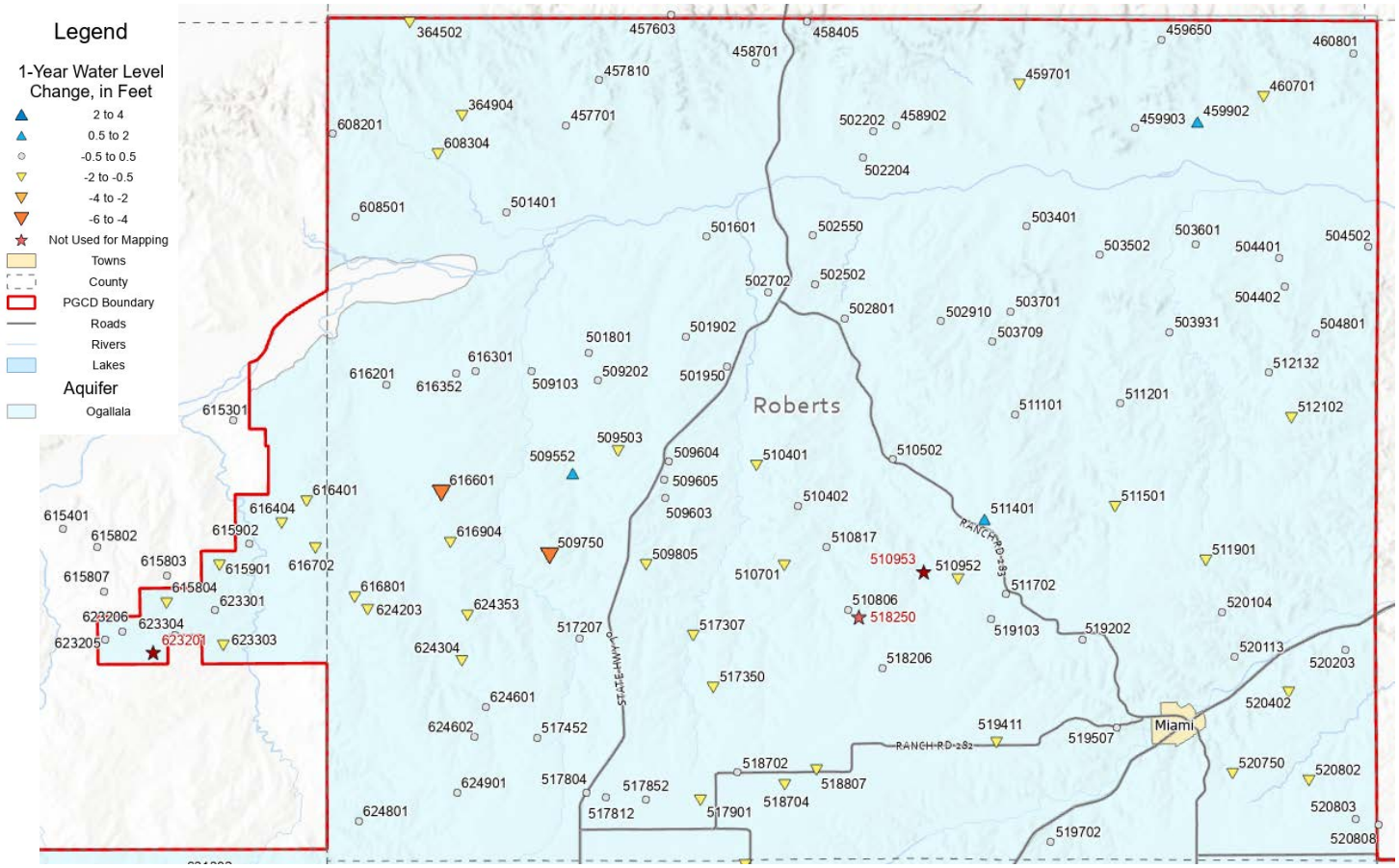
RAINWATER HARVESTING REBATE PROGRAM

Rainwater Harvesting (RWH) is the collection and storage of rain from roofs or from surface catchment for future use. The water is stored in tanks to be saved or directed into mechanisms used for groundwater recharge.

PGCD is offering a rebate incentive for residents, landowners and tenants in our District interested in installing a RWH System. Visit www.pgcd.us/rainwater-harvesting for more information and to see if you qualify to participate in the program.

Catchment System at PGCD's Office

HUTCHINSON & ROBERTS COUNTY OGALLALA AQUIFER 1-YEAR CHANGE



Hutchinson County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
615301	1999	-131.2	-116.2	-116.5	14.7	-0.3
615401	2008	-137.2	-133.9	-134.2	3.0	-0.3
615802	1982	-166.5	-157.2	-157.3	9.2	-0.1
615803	1999	-79.1	-81.1	-81.3	-2.2	-0.2
615804	1999	-111.4	-111.2	-111.9	-0.5	-0.7
615807	2019	-146.6	-147.0	-147.3	-0.7	-0.3
615901	1999	-73.3	-75.3	-77.1	-3.8	-1.8
615902	2004	-25.7	-25.4	-25.5	0.2	-0.1
616401	2001	-294.6	-290.9	-291.9	2.7	-1.0
616404	1999	-101.8	-101.7	-102.3	-0.5	-0.6
616702	2003	-236.7	-247.7	-248.2	-11.5	-0.5
★ 623201	1955	-190.0	-201.8	-	-	-
623205	2004	-154.6	-157.9	-158.1	-3.5	-0.2
623206	2016	-197.1	-197.7	-198.1	-1.0	-0.4
623301	1999	-116.2	-117.0	-117.4	-1.2	-0.4
623303	2003	-103.8	-98.1	-98.6	5.2	-0.5
623304	2004	-190.8	-191.6	-191.9	-1.1	-0.3

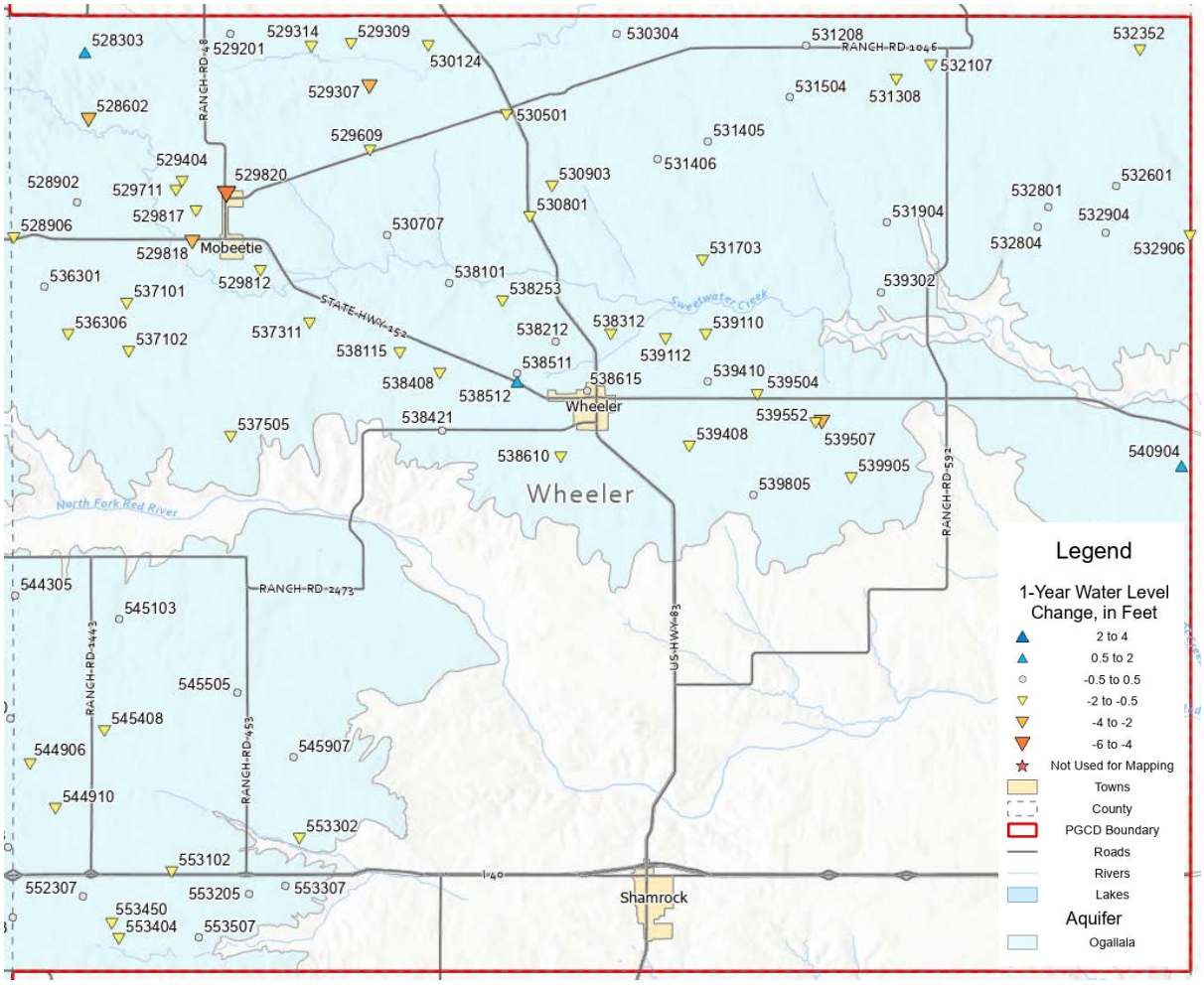
Roberts County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
364502	1977	-412.0	-462.1	-463.4	-51.4	-1.3
364904	2000	-108.6	-120.7	-121.6	-13.0	-0.9
457603	2006	-401.6	-415.6	-415.3	-13.7	0.3
457701	2003	-21.8	-30.8	-31.2	-9.4	-0.4
457810	2000	-253.4	-261.9	-262.1	-8.7	-0.2
458405	2000	-337.8	-348.3	-348.4	-10.6	-0.1
458701	1981	-76.1	-95.5	-95.9	-19.8	-0.4
458902	2004	-117.0	-120.9	-121.1	-4.1	-0.2
459650	2000	-275.8	-269.3	-269.7	6.1	-0.4
459701	1980	-48.4	-55.4	-56.1	-7.7	-0.7
459902	1999	-46.6	-48.7	-48.1	-1.5	0.6
459903	1999	-39.7	-42.3	-42.6	-2.9	-0.3
460701	1996	-96.9	-97.8	-98.3	-1.4	-0.5
460801	1982	-189.2	-186.6	-186.6	2.6	0.0
501401	1982	-49.8	-56.1	-56.4	-6.6	-0.3
501601	2008	-84.0	-84.7	-84.9	-0.9	-0.2
501801	1969	-240.0	-245.3	-245.7	-5.7	-0.4

ROBERTS COUNTY CONTINUED

Roberts County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
501902	1998	-188.6	-210.5	-210.4	-21.8	0.1
501950	2003	-127.6	-133.6	-133.9	-6.3	-0.3
502202	1983	-70.8	-71.5	-71.9	-1.1	-0.4
502204	2007	-18.4	-13.8	-14.2	4.2	-0.4
502502	1975	-112.0	-108.2	-108.3	3.7	-0.1
502550	2000	-101.1	-102.8	-102.7	-1.6	0.1
502702	1981	-54.8	-60.9	-60.7	-5.9	0.2
502801	1974	-11.0	-8.6	-8.7	2.3	-0.1
502910	2012	-166.9	-168.7	-168.8	-1.9	-0.1
503401	1970	-95.0	-100.8	-101.0	-6.0	-0.2
503502	1999	-29.5	-32.8	-33.1	-3.6	-0.3
503601	1981	-85.0	-87.2	-87.1	-2.1	0.1
503701	1975	-85.4	-87.6	-87.7	-2.3	-0.1
503709	2005	-276.3	-279.8	-280.0	-3.7	-0.2
503931	2011	-50.3	-52.6	-52.8	-2.5	-0.2
504401	1976	-99.1	-100.8	-101.1	-2.0	-0.3
504402	1996	-167.0	-169.1	-168.8	-1.8	0.3
504502	1977	-116.7	-116.8	-116.9	-0.2	-0.1
504801	1982	-221.8	-162.7	-162.8	59.0	-0.1
509103	2015	-51.0	-58.7	-58.5	-7.5	0.2
509202	1996	-241.3	-273.1	-273.1	-31.8	0.0
509503	2002	-249.4	-287.3	-288.9	-39.5	-1.6
509552	2002	-78.9	-138.9	-136.9	-58.0	2.0
509603	1980	-181.3	-221.6	-221.7	-40.4	-0.1
509604	2003	-180.2	-206.8	-207.1	-26.9	-0.3
509605	2004	-231.3	-262.8	-262.7	-31.4	0.1
509750	1999	-283.5	-492.0	-497.2	-213.7	-5.2
509805	1999	-302.2	-333.2	-334.3	-32.1	-1.1
510401	1976	-166.1	-172.9	-173.6	-7.5	-0.7
510402	2004	-250.1	-296.6	-296.5	-46.4	0.1
510502	1977	-240.2	-263.2	-263.4	-23.2	-0.2
510701	2004	-273.5	-371.0	-372.7	-99.2	-1.7
510806	2010	-286.5	-448.2	-448.3	-161.8	-0.1
510817	2012	-186.6	-205.5	-205.7	-19.1	-0.2
510952	2001	-345.4	-415.3	-416.1	-70.7	-0.8
★ 510953	1998	-178.0	-	-	-	-
511101	1977	-281.6	-295.1	-295.2	-13.6	-0.1
511201	1977	-292.2	-296.7	-296.2	-4.0	0.5
511401	1976	-344.1	-329.3	-328.1	16.0	1.2
511501	1981	-307.8	-323.6	-325.3	-17.5	-1.7
511702	1977	-358.4	-458.6	-458.7	-100.3	-0.1
511901	1982	-273.3	-284.7	-285.6	-12.3	-0.9
512102	1999	-281.7	-281.1	-282.3	-0.6	-1.2

Roberts County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
512132	2019	-329.6	-329.8	-330.1	-0.5	-0.3
517207	2012	-195.9	-209.2	-209.1	-13.2	0.1
517307	2010	-120.7	-146.1	-146.7	-26.0	-0.6
517350	2002	-340.0	-361.3	-362.4	-22.4	-1.1
517452	2002	-355.2	-365.1	-365.5	-10.3	-0.4
517804	1980	-396.6	-406.9	-407.2	-10.6	-0.3
517812	2017	-402.1	-404.5	-404.4	-2.3	0.1
517852	2001	-405.7	-411.8	-412.1	-6.4	-0.3
517901	1996	-390.3	-399.2	-400.2	-9.9	-1.0
518206	2010	-391.9	-457.1	-457.1	-65.2	0.0
★ 518250	2002	-332.6	-490.6	-486.2	-153.6	4.4
518702	1975	-387.3	-397.2	-397.3	-10.0	-0.1
518704	1996	-381.2	-389.6	-390.2	-9.0	-0.6
518807	2010	-372.3	-383.5	-384.8	-12.5	-1.3
519103	2012	-424.6	-420.8	-420.9	3.7	-0.1
519202	1998	-362.0	-387.8	-388.2	-26.2	-0.4
519411	2014	-364.0	-368.3	-369.6	-5.6	-1.3
519507	2018	-296.4	-295.2	-295.6	0.8	-0.4
519702	1972	-294.0	-267.3	-267.1	26.9	0.2
520104	1976	-150.0	-151.1	-151.3	-1.3	-0.2
520113	2009	-65.5	-75.7	-75.4	-9.9	0.3
520203	1977	-112.2	-113.6	-113.7	-1.5	-0.1
520402	1970	-302.0	-298.4	-298.9	3.1	-0.5
520750	2000	-291.1	-294.1	-294.6	-3.5	-0.5
520802	1981	-245.2	-246.2	-246.8	-1.6	-0.6
520803	2011	-327.8	-327.8	-327.8	0.0	0.0
520808	2012	-315.3	-316.7	-316.6	-1.3	0.1
608201	1982	-160.3	-183.4	-183.6	-23.3	-0.2
608304	2009	-79.8	-87.3	-88.1	-8.3	-0.8
608501	1982	-56.7	-67.8	-67.9	-11.2	-0.1
616201	2003	-144.5	-149.3	-149.1	-4.6	0.2
616301	1975	-198.0	-190.4	-190.7	7.3	-0.3
616352	2003	-179.8	-190.7	-190.9	-11.1	-0.2
616601	1999	-215.9	-285.9	-290.2	-74.3	-4.3
616801	1977	-212.6	-230.8	-231.7	-19.1	-0.9
616904	1998	-224.3	-332.2	-333.7	-109.4	-1.5
624203	1999	-240.4	-255.2	-256.8	-16.4	-1.6
624304	1999	-279.3	-316.3	-317.7	-38.4	-1.4
624353	1999	-295.1	-378.6	-380.3	-85.2	-1.7
624601	1996	-200.4	-214.7	-214.9	-14.5	-0.2
624602	2001	-327.1	-328.6	-328.4	-1.3	0.2
624801	1977	-77.5	-112.9	-113.0	-35.5	-0.1
624901	1976	-350.5	-362.2	-362.3	-11.8	-0.1

WHEELER COUNTY OGALLALA AQUIFER 1-YEAR CHANGE



Wheeler County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
528303	2000	-297.4	-299.6	-298.7	-1.3	0.9
528602	1979	-111.0	-118.1	-120.2	-9.2	-2.1
528902	1978	-24.7	-40.3	-40.7	-16.0	-0.4
528906	2003	-167.0	-178.2	-180.1	-13.1	-1.9
529201	1956	-140.2	-141.2	-141.3	-1.1	-0.1
529307	1975	-135.0	-118.4	-120.7	14.3	-2.3
529309	2018	-93.1	-92.5	-93.1	0.0	-0.6
529314	2018	-66.2	-66.8	-67.8	-1.6	-1.0
529404	2004	-65.4	-68.1	-68.9	-3.5	-0.8
529609	1999	-57.9	-59.3	-60.4	-2.5	-1.1
529711	1967	-60.0	-72.2	-73.1	-13.1	-0.9
529812	1967	-24.0	-25.3	-25.8	-1.8	-0.5
529817	1979	-73.3	-72.3	-72.9	0.4	-0.6
529818	1979	-51.2	-58.3	-60.9	-9.7	-2.6
529820	1987	-64.0	-75.3	-80.7	-16.7	-5.4
530124	2006	-26.3	-27.8	-29.6	-3.3	-1.8
530304	1982	-90.6	-86.5	-86.9	3.7	-0.4

Wheeler County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
530501	1953	-97.6	-109.9	-111.2	-13.6	-1.3
530707	1980	-13.8	-14.2	-14.1	-0.3	0.1
530801	1960	-60.9	-69.1	-69.8	-8.9	-0.7
530903	1978	-80.9	-81.3	-82.1	-1.2	-0.8
531208	2012	-155.9	-155.7	-156.1	-0.2	-0.4
531308	2019	-55.0	-56.9	-57.4	-2.4	-0.5
531405	2000	-11.7	-16.2	-16.4	-4.7	-0.2
531406	1976	-95.0	-83.1	-83.5	11.5	-0.4
531504	1980	-38.6	-35.1	-35.2	3.4	-0.1
531703	1971	-104.0	-90.4	-91.2	12.8	-0.8
531904	2008	-73.8	-78.1	-78.5	-4.7	-0.4
532107	1978	-54.6	-54.9	-55.4	-0.8	-0.5
532352	2003	-98.4	-93.8	-95.1	3.3	-1.3
532601	1980	-97.8	-70.8	-71.2	26.6	-0.4
532801	1980	-20.8	-1.5	-1.5	19.3	0.0
532804	1999	-18.0	-17.8	-17.9	0.1	-0.1
532904	2001	-62.4	-65.3	-65.4	-3.0	-0.1

WHEELER COUNTY CONTINUED

Wheeler County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
532906	2006	-18.8	-17.7	-19.2	-0.4	-1.5
536301	2001	-121.0	-147.9	-148.1	-27.1	-0.2
536306	2012	-61.5	-68.2	-69.6	-8.1	-1.4
537101	2000	-81.8	-90.6	-91.2	-9.4	-0.6
537102	2001	-52.7	-61.3	-61.9	-9.2	-0.6
537311	1980	-24.2	-27.1	-27.9	-3.7	-0.8
537505	1975	-71.0	-64.1	-64.6	6.4	-0.5
538101	1956	-1.9	-7.7	-7.8	-5.9	-0.1
538115	2019	-140.3	-139.1	-139.8	0.5	-0.7
538212	2010	-67.7	-71.0	-71.4	-3.7	-0.4
538253	2002	-92.5	-100.8	-101.4	-8.9	-0.6
538312	2014	-60.6	-59.5	-60.1	0.5	-0.6
538408	1979	-88.8	-107.5	-108.4	-19.6	-0.9
538421	2018	-102.5	-102.9	-102.8	-0.3	0.1
538511	1977	-28.0	-46.6	-46.9	-18.9	-0.3
538512	1977	-29.0	-54.3	-53.6	-24.6	0.7
538610	1978	-69.3	-71.5	-72.6	-3.3	-1.1
538615	2006	-39.0	-36.3	-36.4	2.6	-0.1
539110	2007	-75.5	-76.7	-77.3	-1.8	-0.6
539112	2011	-38.3	-40.9	-41.4	-3.1	-0.5
539302	1999	-36.3	-49.4	-49.8	-13.5	-0.4
539408	1978	-5.4	-6.6	-7.2	-1.8	-0.6

Wheeler County - Ogallala Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
539410	2011	-28.9	-30.3	-30.7	-1.8	-0.4
539504	1986	-62.0	-47.1	-47.7	14.3	-0.6
539507	2008	-25.2	-34.8	-36.8	-11.6	-2.0
539552	2000	-23.6	-33.2	-34.7	-11.1	-1.5
539805	2022	-54.6	-54.6	-54.9	-0.3	-0.3
539905	1977	-35.0	-41.3	-42.3	-7.3	-1.0
540904	2018	-91.7	-92.6	-91.6	0.1	1.0
544305	1980	-87.4	-89.3	-89.6	-2.2	-0.3
544906	1974	-100.0	-111.2	-111.7	-11.7	-0.5
544910	2010	-91.5	-95.8	-96.5	-5.0	-0.7
545103	1979	-8.9	-6.9	-7.3	1.6	-0.4
545408	1980	-111.0	-110.3	-110.9	0.1	-0.6
545505	1979	-109.5	-107.6	-107.9	1.6	-0.3
545907	1980	-53.0	-50.1	-50.4	2.6	-0.3
552307	1980	-79.8	-78.3	-78.5	1.3	-0.2
553102	1979	-65.3	-75.1	-76.0	-10.7	-0.9
553205	2010	-29.5	-32.2	-31.9	-2.4	0.3
553302	1999	-16.6	-28.9	-30.1	-13.5	-1.2
553307	2011	-38.5	-41.7	-41.8	-3.3	-0.1
553404	2000	-7.7	-10.1	-10.8	-3.1	-0.7
553450	2001	-38.8	-43.9	-44.4	-5.6	-0.5
553507	2010	-37.9	-40.9	-41.3	-3.4	-0.4

SUMMER RAINFALL TOTALS

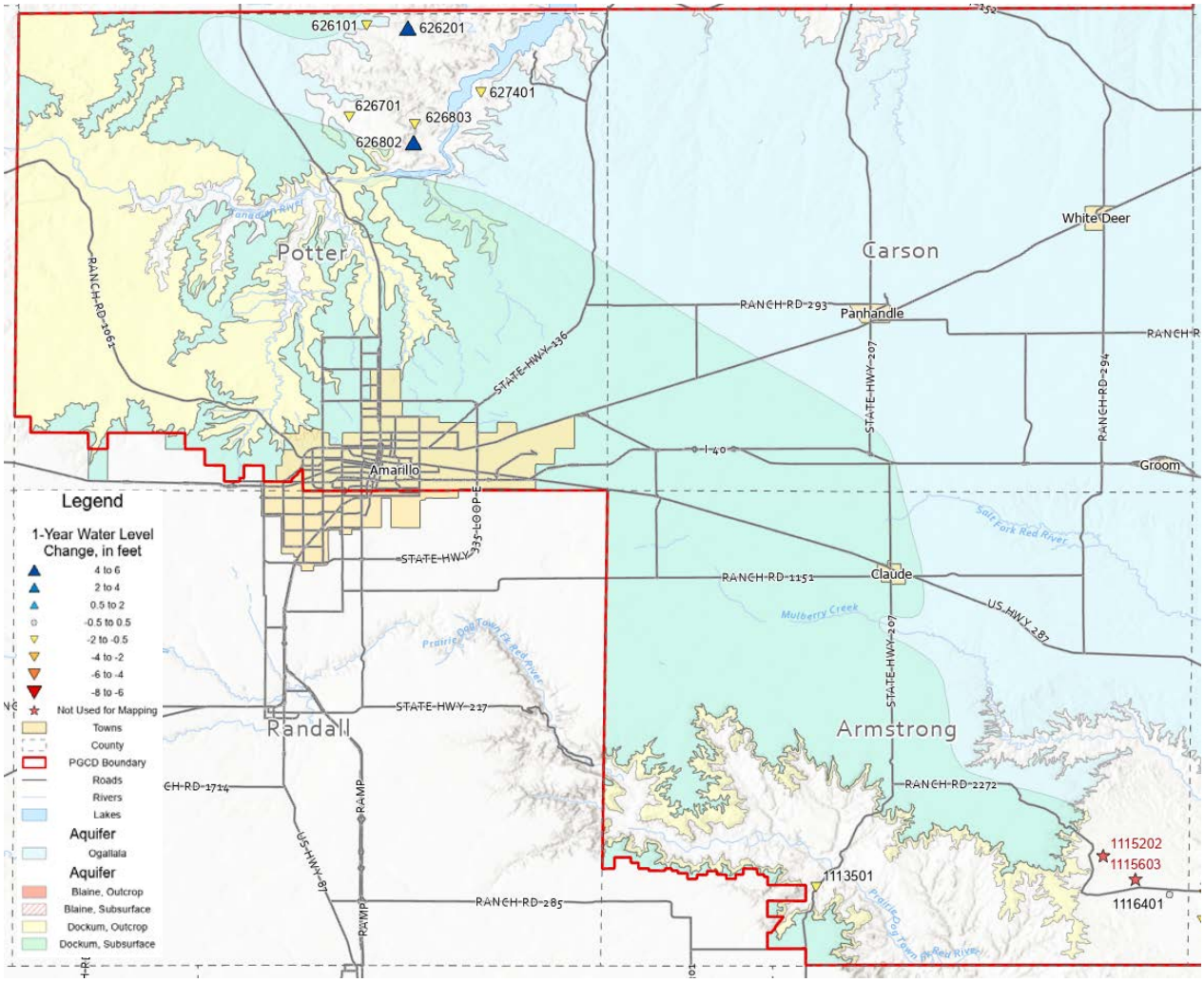
The El Niño/Southern Oscillation (ENSO) Diagnostics Discussion issued by the Climate Prediction Center on July 13 predicted there is a greater than 90% chance that El Niño will continue throughout the Northern Hemisphere this winter. For more information and to read the full report, please visit http://www.cpc.ncep.noaa.gov/.

See the chart below for the average rainfall across District counties in inches. This information was found using data from West Texas Mesonet and from the District's annual rain gauge participants. If you want to become a partner or want more information on rainfall data, please contact PGCD Hydrogeologist Ashley Ausbrooks at 806-883-2501 or by email at ara@pgcd.us

Average Rainfall per County in Inches

County	January	February	March	April	May	June	Average Total from Jan-June
Armstrong	0.46	0.37	0.32	1.53	7.36	4.51	14.55
Carson	0.29	0.22	0.38	1.08	7.27	5.95	15.19
Donley	0.61	0.38	0.32	1.50	5.90	2.28	10.99
Gray	0.46	0.54	0.23	1.44	6.14	5.42	14.23
Potter	0.33	0.19	0.40	0.52	9.13	4.19	14.76
Roberts	0.19	0.34	0.20	1.55	5.67	6.80	14.75
Wheeler	0.56	0.58	0.13	1.68	5.80	7.35	16.10
District Average	**0.41**	**0.37**	**0.28**	**1.33**	**6.75**	**5.21**	**14.37**

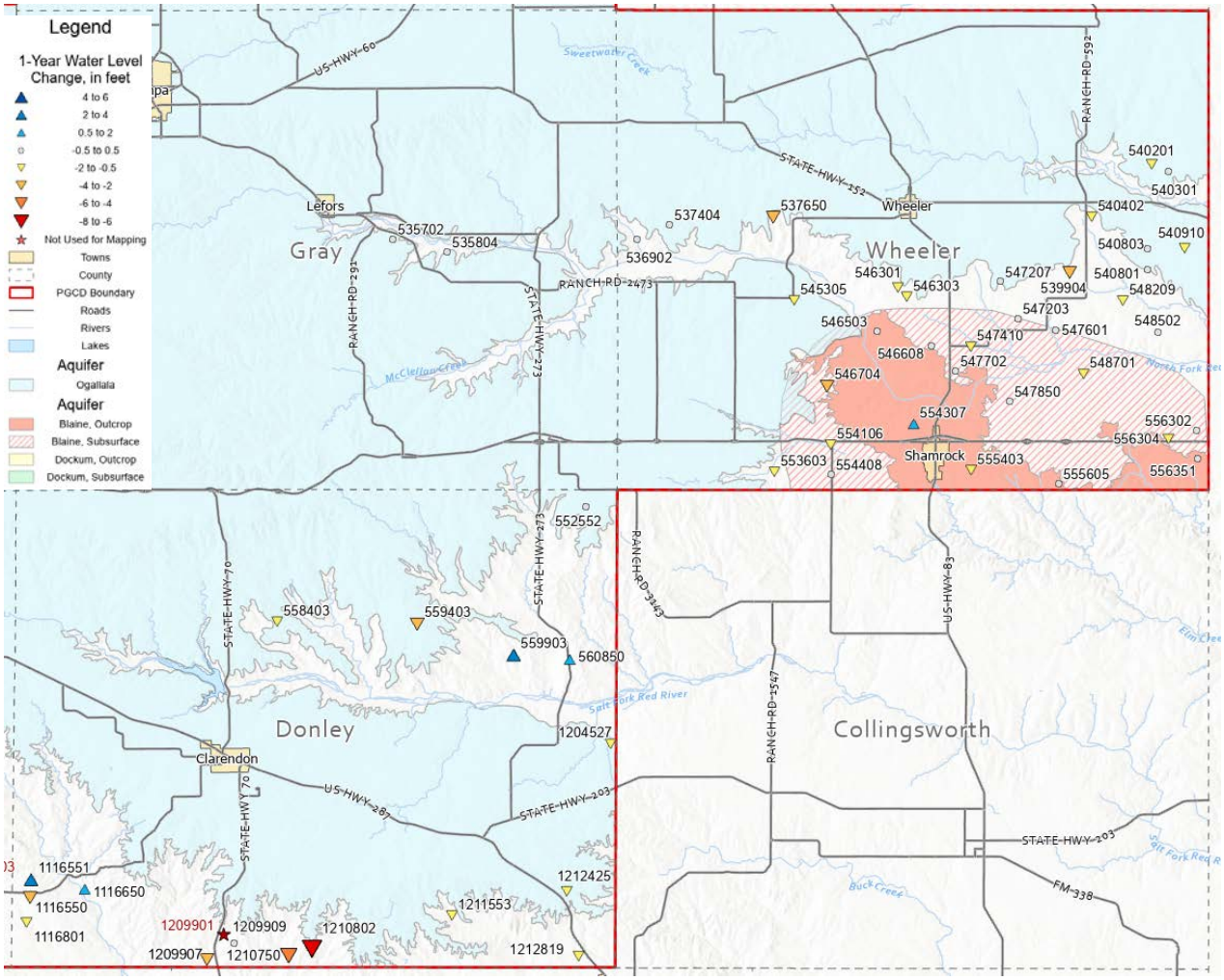
ARMSTRONG, CARSON, DONLEY, GRAY, POTTER & WHEELER COUNTIES-BLAINE AQUIFER



Armstrong, Carson, Donley, Gray, Potter & Wheeler Counties - Blaine Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
535702	1974	-21.0	-22.8	-22.9	-1.9	-0.1
535804	2019	-39.6	-39.6	-39.6	0.0	0.0
536902	2001	-28.6	-10.9	-11.3	17.3	-0.4
537404	2019	-58.2	-58.9	-59.3	-1.1	-0.4
537650	1999	-7.0	-13.3	-15.9	-8.9	-2.6
540201	1999	-7.3	-8.2	-8.9	-1.6	-0.7
540301	1999	-34.7	-37.8	-38.2	-3.5	-0.4
540402	2001	-33.0	-36.8	-37.8	-4.8	-1.0
540801	2000	-20.2	-18.7	-18.8	1.4	-0.1
540803	2000	-10.4	-6.6	-6.5	3.9	0.1
540910	2009	-48.8	-48.4	-48.9	-0.1	-0.5
545305	1979	-74.7	-76.3	-77.1	-2.4	-0.8
546301	1999	-7.5	-19.5	-20.8	-13.3	-1.3
546303	1999	-8.9	-10.4	-11.3	-2.4	-0.9
546503	2001	-34.2	-38.9	-39.3	-5.1	-0.4
546608	1999	-19.5	-47.3	-47.2	-27.7	0.1
546704	1999	-89.5	-108.7	-112.4	-22.9	-3.7

Armstrong, Carson, Donley, Gray, Potter & Wheeler Counties - Blaine Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
547203	1956	-25.1	-30.6	-30.8	-5.7	-0.2
547207	2022	-72.3	-72.3	-72.7	-0.4	-0.4
547410	1999	-21.1	-25.3	-25.8	-4.7	-0.5
547601	2000	-47.3	-54.2	-54.6	-7.3	-0.4
547702	1999	-30.3	-36.6	-36.6	-6.3	0.0
547850	2002	-88.0	-103.2	-102.7	-14.7	0.5
548209	2019	-34.8	-32.2	-32.8	2.0	-0.6
548502	1999	-31.1	-34.7	-35.1	-4.0	-0.4
548701	2000	-8.8	-30.4	-31.2	-22.4	-0.8
552552	2002	-95.6	-101.6	-101.5	-5.9	0.1
553603	2000	-55.1	-44.1	-44.7	10.4	-0.6
554106	1966	-60.0	-60.6	-61.9	-1.9	-1.3
554307	2002	-40.8	-52.7	-51.7	-10.9	1.0
554408	2001	-83.5	-88.8	-88.7	-5.2	0.1
555403	1999	-74.0	-81.1	-81.6	-7.6	-0.5
555605	2000	-80.4	-100.3	-100.5	-20.1	-0.2
556302	2000	-30.6	-10.5	-10.9	19.7	-0.4

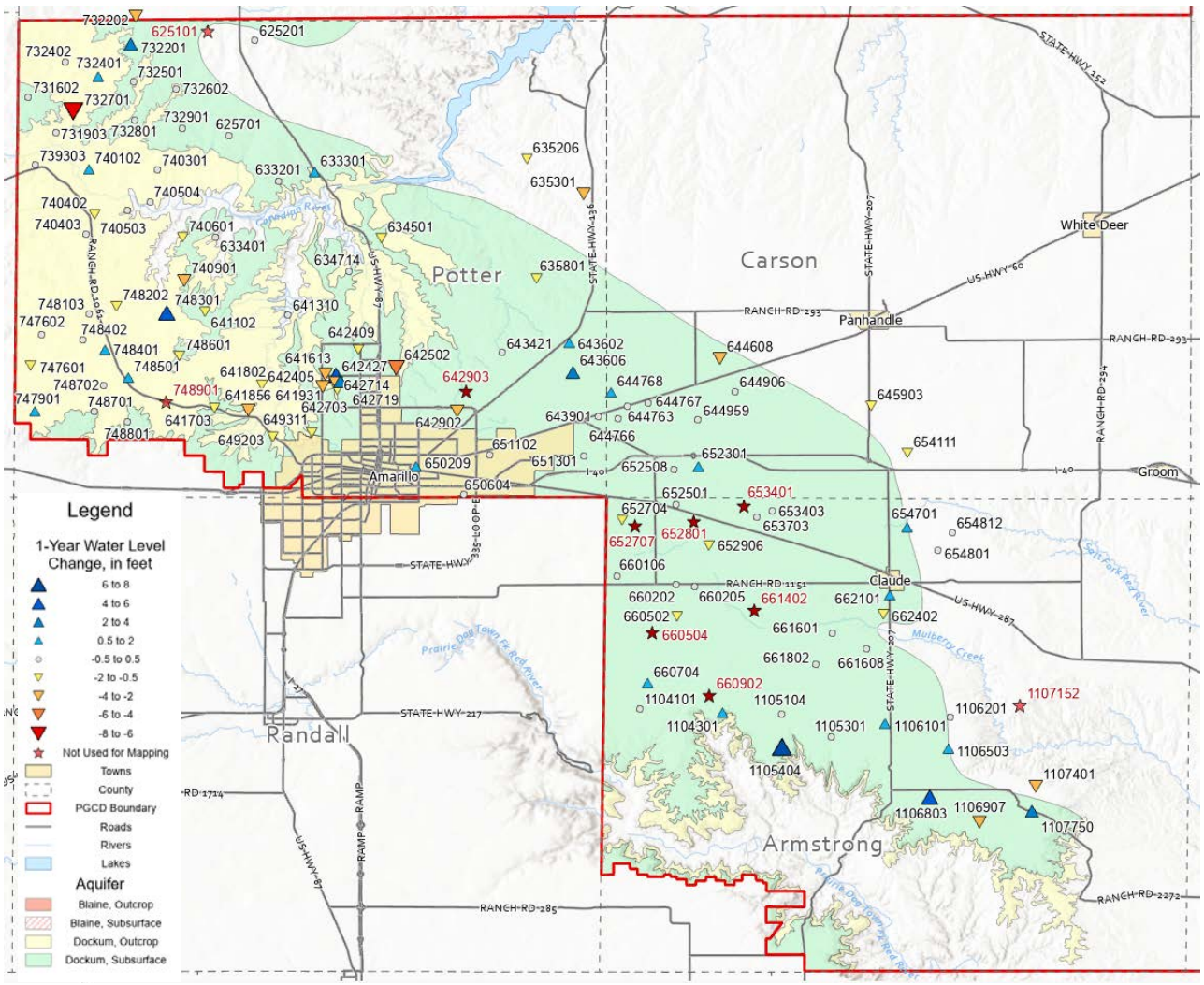
ARMSTRONG, CARSON, DONLEY, GRAY, POTTER & WHEELER COUNTIES-BLAINE AQUIFER CONTINUED



Armstrong, Carson, Donley, Gray, Potter & Wheeler Counties - Blaine Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
556304	2011	-34.6	-36.3	-36.8	-2.2	-0.5
556351	2002	-54.1	-60.2	-59.7	-5.6	0.5
558403	1999	-177.0	-131.3	-131.8	45.2	-0.5
559403	1977	-73.0	-77.3	-80.1	-7.1	-2.8
560850	2001	-118.1	-104.6	-103.8	14.3	0.8
626101	2002	-30.4	-31.9	-32.6	-2.2	-0.7
626201	2002	-107.0	-137.0	-132.3	-25.3	4.7
626701	2002	-36.9	-41.5	-42.3	-5.4	-0.8
626802	2002	-44.2	-49.5	-45.2	-1.0	4.3
626803	2002	-32.7	-41.0	-42.3	-9.6	-1.3
627401	1973	-113.4	-119.2	-119.8	-6.4	-0.6
1113501	2022	-38.7	-38.7	-39.7	-1.0	-1.0
★ 1115202	2022	-161.1	-161.1	-171.9	-10.8	-10.8
★ 1115603	2022	-119.7	-119.7	-129.7	-10.0	-10.0

Armstrong, Carson, Donley, Gray, Potter & Wheeler Counties - Blaine Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
1116401	2001	-72.1	-68.2	-68.3	3.8	-0.1
1116550	2001	-121.4	-120.3	-122.9	-1.5	-2.6
1116551	2001	-131.9	-128.0	-124.4	7.5	3.6
1116650	2001	-5.5	-13.5	-12.9	-7.4	0.6
1116801	2001	-46.5	-50.2	-51.5	-5.0	-1.3
1204527	2019	-30.2	-32.1	-33.0	-2.8	-0.9
★ 1209901	1992	-50.0	-52.3	-	-	-
1209907	2008	-32.3	-27.8	-30.5	1.8	-2.7
1209909	2002	-168.2	-155.0	-155.1	13.1	-0.1
1210750	2003	-70.4	-51.1	-55.6	14.8	-4.5
1210802	2001	-93.4	-114.8	-122.3	-28.9	-7.5
1211553	2001	-22.3	-25.1	-25.9	-3.6	-0.8
1212425	2009	-29.8	-39.1	-40.9	-11.1	-1.8
1212819	2011	-27.6	-34.6	-35.7	-8.1	-1.1

ARMSTRONG, CARSON & POTTER COUNTIES-DOCKUM AQUIFER



Armstrong, Carson & Potter Counties - Dockum Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
★ 625101	2003	-262.4	-263.0	-275.9	-13.5	-12.9
625201	2002	-211.0	-185.7	-185.3	25.7	0.4
625701	2002	-153.2	-155.6	-155.7	-2.5	-0.1
633201	2002	-84.5	-85.7	-85.9	-1.4	-0.2
633301	2001	-61.2	-66.6	-65.1	-3.9	1.5
633401	2001	-63.4	-66.9	-67.1	-3.7	-0.2
634501	2022	-124.9	-124.9	-126.1	-1.2	-1.2
635206	2011	-223.9	-232.9	-233.5	-9.6	-0.6
635301	1993	-293.8	-326.9	-329.1	-35.3	-2.2
635801	1981	-94.7	-131.5	-133.2	-38.5	-1.7
641102	2001	-102.7	-97.6	-98.4	4.3	-0.8
641310	2001	-37.2	-34.8	-35.0	2.2	-0.2
641613	1980	-92.4	-105.1	-108.0	-15.6	-2.9
641703	2001	-305.2	-294.9	-296.5	8.7	-1.6
641802	2001	-85.6	-92.6	-93.9	-8.3	-1.3
641856	2014	-142.9	-129.5	-132.3	10.6	-2.8
641931	2003	-57.1	-66.7	-68.7	-11.6	-2.0

Armstrong, Carson & Potter Counties - Dockum Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
642405	2008	-142.4	-155.4	-154.3	-11.9	1.1
642409	2003	-64.2	-74.7	-75.7	-11.5	-1.0
642427	2013	-159.9	-161.3	-156.3	3.6	5.0
642502	2001	-83.6	-81.9	-86.4	-2.8	-4.5
642703	2003	-90.8	-100.9	-102.9	-12.1	-2.0
642714	2003	-77.5	-85.9	-86.5	-9.0	-0.6
642719	2003	-126.2	-135.0	-131.2	-5.0	3.8
642902	1986	-220.3	-221.8	-224.4	-4.1	-2.6
★ 642903	1979	-65.5	-	-	-	-
643421	2005	-179.6	-179.1	-179.4	0.2	-0.3
643602	2001	-320.3	-316.1	-315.5	4.8	0.6
643606	2004	-278.8	-265.3	-262.9	15.9	2.4
643901	2001	-217.0	-201.4	-201.1	15.9	0.3
644608	1980	-369.9	-478.4	-480.5	-110.6	-2.1
644763	2000	-233.1	-232.2	-232.1	1.0	0.1
644766	2000	-226.2	-224.7	-225.1	1.1	-0.4
644767	2001	-264.7	-257.1	-256.9	7.8	0.2

ARMSTRONG, CARSON & POTTER COUNTIES-DOCKUM AQUIFER-CONTINUED

Armstrong, Carson & Potter Counties - Dockum Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
644768	2002	-272.9	-262.5	-261.8	11.1	0.7
644906	2001	-348.9	-350.6	-350.6	-1.7	0.0
644959	2000	-221.5	-219.1	-219.3	2.2	-0.2
645903	1999	-367.2	-418.7	-419.2	-52.0	-0.5
649203	2004	-112.0	-109.9	-111.8	0.2	-1.9
649311	2001	-51.5	-52.0	-53.3	-1.8	-1.3
650209	2001	-235.6	-191.5	-189.7	45.9	1.8
650604	2001	-208.5	-194.3	-194.2	14.3	0.1
651102	2001	-177.9	-167.0	-167.0	10.9	0.0
651301	2002	-210.9	-206.4	-206.2	4.7	0.2
652301	1956	-192.7	-199.4	-198.7	-6.0	0.7
652501	1958	-188.4	-201.4	-201.4	-13.0	0.0
652508	1982	-200.7	-201.8	-201.6	-0.9	0.2
652704	2006	-170.9	-178.9	-179.9	-9.0	-1.0
★ 652707	2002	-220.0	-	-	-	-
★ 652801	1958	-154.1	-	-	-	-
652906	1976	-106.8	-127.4	-128.2	-21.4	-0.8
653403	1975	-187.2	-179.7	-179.3	7.9	0.4
653703	1966	-191.0	-178.7	-178.5	12.5	0.2
654111	2012	-344.0	-342.0	-342.9	1.1	-0.9
654701	1975	-260.3	-251.3	-250.7	9.6	0.6
654801	1958	-296.9	-291.9	-291.7	5.2	0.2
654812	2015	-255.9	-254.8	-254.8	1.1	0.0
660106	1993	-214.4	-209.3	-209.0	5.4	0.3
660202	1992	-163.1	-162.2	-162.4	0.7	-0.2
660205	2005	-163.1	-163.8	-163.8	-0.7	0.0
660502	1993	-154.5	-151.7	-152.3	2.2	-0.6
★ 660504	2017	-184.0	-186.9	-	-	-
660704	2015	-191.0	-190.6	-189.7	1.3	0.9
★ 660902	1969	-180.0	-211.3	-	-	-
★ 661402	2011	-181.0	-185.9	-	-	-
661601	1975	-170.7	-172.8	-173.2	-2.5	-0.4
661608	1976	-165.8	-165.4	-165.5	0.3	-0.1
661802	1980	-162.5	-156.7	-156.2	6.3	0.5
662101	1956	-170.0	-203.1	-201.8	-31.8	1.3
662402	1999	-146.1	-152.5	-153.3	-7.2	-0.8
731602	2002	-191.7	-146.8	-146.3	45.4	0.5
731903	2002	-20.8	-25.5	-25.7	-4.9	-0.2
732201	2002	-160.1	-168.8	-166.3	-6.2	2.5
732202	2002	-65.5	-67.4	-70.0	-4.5	-2.6
732401	2002	-28.4	-32.2	-30.8	-2.4	1.4

Armstrong, Carson & Potter Counties - Dockum Aquifer						
Well Number	First Reading Year	Depth to Water, in feet			Water Level Difference	Data Used to Make Maps
		Initial Depth	2022	2023	Initial To Current Difference	1 Year Difference
732402	2002	-17.5	-17.0	-16.8	0.7	0.2
732501	2001	-60.2	-61.1	-61.3	-1.1	-0.2
732602	2002	-41.6	-39.4	-39.8	1.8	-0.4
732701	2002	-28.0	-37.5	-43.7	-15.7	-6.2
732801	2002	-132.5	-134.6	-134.5	-2.0	0.1
732901	2002	-171.1	-172.6	-172.6	-1.5	0.0
739303	2015	-98.5	-99.6	-100.0	-1.5	-0.4
740102	2002	-25.6	-28.2	-26.8	-1.2	1.4
740301	2002	-164.8	-167.3	-167.3	-2.5	0.0
740402	2001	-84.1	-84.9	-86.3	-2.2	-1.4
740403	2002	-59.7	-59.4	-59.4	0.3	0.0
740503	2001	-30.4	-31.5	-31.7	-1.3	-0.2
740504	2002	-26.0	-27.3	-27.4	-1.4	-0.1
740601	2002	-70.6	-73.9	-74.9	-4.3	-1.0
740901	2002	-132.0	-137.0	-139.5	-7.5	-2.5
747601	2002	-40.1	-39.2	-40.1	0.0	-0.9
747602	2002	-96.2	-77.8	-77.9	18.3	-0.1
747901	2002	-115.1	-115.7	-114.2	0.9	1.5
748103	2002	-42.4	-40.9	-41.2	1.2	-0.3
748202	2002	-11.9	-6.1	-6.9	5.0	-0.8
748301	2002	-78.0	-73.4	-68.3	9.7	5.1
748401	2002	-42.2	-54.4	-53.6	-11.4	0.8
748402	2002	-25.0	-24.3	-24.6	0.4	-0.3
748501	2001	-44.0	-43.6	-42.0	2.0	1.6
748601	2002	-142.5	-142.2	-143.5	-1.0	-1.3
748701	2002	-82.8	-83.2	-83.1	-0.3	0.1
748702	2002	-42.2	-50.4	-50.5	-8.3	-0.1
748801	2001	-40.2	-44.3	-44.6	-4.4	-0.3
★ 748901	2001	-96.0	-92.1	-78.5	17.5	13.6
1104101	1975	-197.8	-203.0	-202.9	-5.1	0.2
1104301	1981	-317.4	-301.5	-300.4	17.0	1.1
1105104	2004	-174.6	-174.1	-174.1	0.5	0.0
1105301	1980	-162.7	-158.4	-158.4	4.3	0.0
1105404	2017	-227.8	-240.4	-233.0	-5.2	7.4
1106101	1975	-179.6	-174.5	-173.0	6.6	1.5
1106201	1976	-162.7	-160.3	-160.4	2.3	-0.1
1106503	2022	-173.6	-173.6	-173.0	0.6	0.6
1106803	2017	-233.8	-247.2	-241.8	-8.0	5.4
1106907	2022	-113.7	-113.7	-116.2	-2.5	-2.5
★ 1107152	2022	-285.5	-285.5	-270.0	15.5	15.5
1107401	1976	-122.8	-120.6	-123.3	-0.5	-2.7
1107750	2005	-120.0	-124.7	-121.0	-1.0	3.7

PLAYA LAKE BENEFITS

Playa Lakes are just as important to people as they are to wildlife. They are the primary source of recharge for the Ogallala Aquifer with an average recharge rate across the region of about three inches per year. Playas are water filtration systems and when working properly they keep fertilizers, herbicides, and pesticides out of the groundwater. Playas attract wildlife and also play a huge part in flood control by collecting runoff during high rains. This reduces property damage and erosion. For more information about Playas and their importance please visit the Playa Lakes Joint Venture website at https://pljv.org

OPERATING PERMIT REMINDER

PGCD wants to remind constituents to please come in and get an operating permit when bringing old wells back into production. Any well capable of producing more than 17.5 gallons per minute requires an operating permit, and any well that produces more than 35 gallons per minute requires an approved metering method. For more information on PGCD's permitting requirements, please contact Julie Bennett by calling 806-883-2501 or by email at jb@pgcd.us. If you would like to fill out an electronic application, go to www.pgcd.us/permits-and-registrations.

SUMMER EDUCATION

PGCD staff presented at the White Deer Library and the Carson County Library Summer Reading Programs on June 20 and June 21. Summer is always an appropriate time to incorporate water conservation conversations with children of all ages, and PGCD was excited to take advantage of these opportunities. PGCD's PR/Education Director Aspen Edgar did an interactive presentation over the water cycle and helped the students create their own conservation foldable to keep as a reminder of all of the simple ways they can conserve over the summer. The District is available to attend group meetings of any kind to talk about the importance of water conservation. For more information, please call Aspen Edgar at 806-883-2501 or email at aedgar@pgcd.us.

UPCOMING DATES

- Next Board of Director's meeting is set for Wednesday, July 26, 2023 at 9:00 a.m. in the Windmill Room.

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