Panhandle Water News

JULY 2020

Points of Interest

County Contour Map Index

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2020 PGCD Scholarship Winners

MacKenzi Miller
1st Place Winner
Panhandle High School

Alexander Davis
2nd Place Winner
Wheeler High School

Richard Judy, Jr.
3rd Place Winner
Highland Park High School

In 2002, Panhandle Groundwater Conservation District (PGCD) established a scholarship program for graduating seniors throughout the District. The applicants are required to write a 500-1,000 word essay on a topic chosen by PGCD and to enroll as a full-time student at the college of their choice the fall semester immediately following selection. Also, they must maintain at least a 2.5 college GPA. A committee of three board members and a staff member select the winners.

The student awarded first place receives a $4,000 scholarship, second place receives $3,000, and third place receives $2,000. The scholarship total is paid out over four years.

PGCD's topic this year was:

"**Imagine a day without water. What would the impacts be? Describe in great detail impacts and conservation strategies that would need to be implemented for survival.**

PGCD had thirty applicants this year and is proud to announce MacKenzi Miller, Alexander Davis and Richard Judy, Jr. as the top three winners of PGCD's scholarship.

MacKenzi Miller, daughter of Shane and Keri Miller of Panhandle, is our First Place winner. Miller graduated from Panhandle High School with a 3.91 GPA. Her future plans include attending Texas Tech University to study Food Science.

Alexander Davis is our second place winner. He is the son of Linda Davis from Wheeler. Davis graduated from Wheeler High School with a 3.87 GPA. He plans to attend West Texas A&M University to study Communications.

Richard Judy, Jr., son of Richard Judy, Sr. and Angie Carreon of Amarillo, received third place. Judy graduated from Highland Park High School with a 4.0 GPA. He plans to attend Midwestern State University to study General Business.

PGCD wants to thank all of the applicants and congratulate the winners. We thoroughly enjoyed each essay and perspective on the topic. We wish you all the best of luck on your future endeavors.

Ogallala Aquifer Water Level Measurements

Panhandle Groundwater Conservation District (PGCD) 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 to determine the water level in the aquifer, quantify the volume of groundwater remaining, monitor long-term trends in water levels, provide information necessary to evaluate the status of the District's adopted desired future conditions and to determine IRS depletion allowances.

The Ogallala Aquifer contour maps in this newsletter show the change in water level from 2019 to 2020 (in feet). The contour maps were drawn using the difference between water level measurements taken from the designated monitoring well network. The Dockum and Whitehorse aquifer maps show only well locations. Data shown for the Whitehorse Aquifer also includes information for wells located in other local minor aquifers with limited production.

Depth to water level measurements shown in this publication were taken by PGCD Field Technicians during November 2019 to March 2020. The measurements are taken during this timeframe 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.

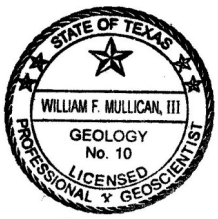
2020 Data Explaination

PGCD has water level data on many wells throughout the District dating back to the 1950s. You will notice this edition of the water level decline issue has a few updates. Instead of mapping the 5-year average as we have the past several years, the District decided to map the 1–year difference on wells within the Winter Water Level Network. We also wanted to utilize our historical data and show the lifetime of each well.

The column headings in the charts throughout this newsletter show (starting from left to right) (1) well number, (2) the initial year measured, which is the year PGCD first measured the well to give readers a better idea of how old or how long we've been monitoring that particular well, (3) the initial depth measurement, (4) the 2019 water level depth, (5) the 2020 water level depth, (6) the initial depth measurement minus the current level depth during the period of record, (7) change in water level from 2019 to 2020 or the 1-year difference. The l-year difference is the data used by the District to create the contours drawn in this year's maps.

On the maps this year, there are well numbers in red text notated with a red star. The water level readings for these wells were not used to create the contour maps. Most of these wells did not have a 1-year change in which case they could not be used. However, some of the wells fell outside the range to create the contours, which was –20 feet to +20 feet.

For further explanation or more information, please contact the District at 806-883-2501. These maps were developed under the supervision and with the final approval of Bill Mullican, Professional Geologist.



7/10/2020

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

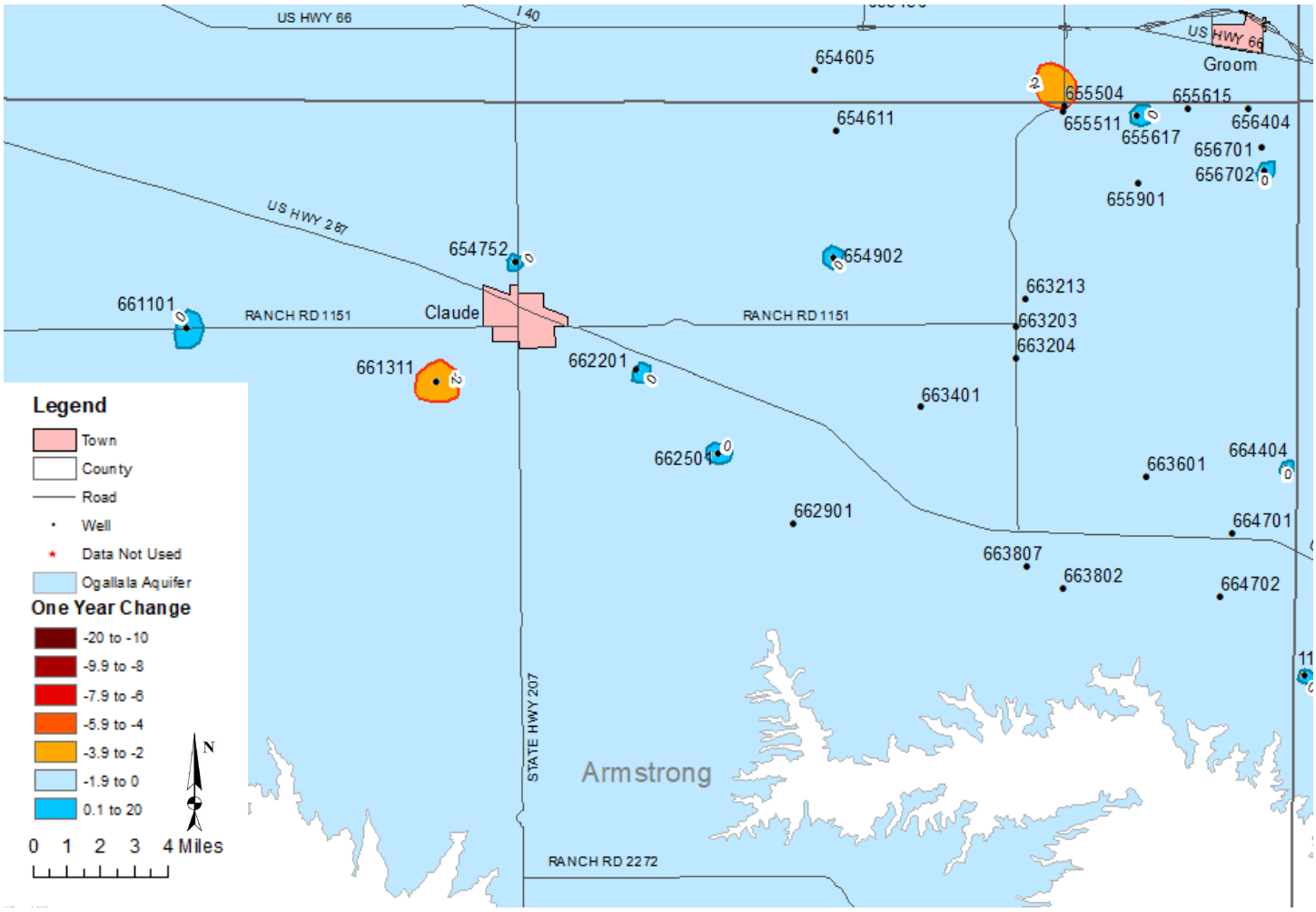
Meter Rules Reminder

One of the main changes from the 2018 PGCD Rules amendments was traditional flow meters becoming more of a responsibility for operators throughout the District. With that change, the PGCD would like to send out a few reminders.:

- Please remember to notify us if you replace, add or change out any meters at new or existing farms. We will need to come out and verify the meter is operating and take down additional information.
- When you start pumping this season, remember to send a clear picture of the meter face (while pumping), so we know your meter is working properly.
- Finally, remember throughout your pumping season to do routine inspections on your meters to make note they are operating correctly. It is the operator's responsibility to notify the District when a meter is not operating correctly.

The District is still here to assist with maintenance when necessary. However, operators will be asked to sign a liability waiver before any repairs can be completed. For more information, please call 806-883-2501.

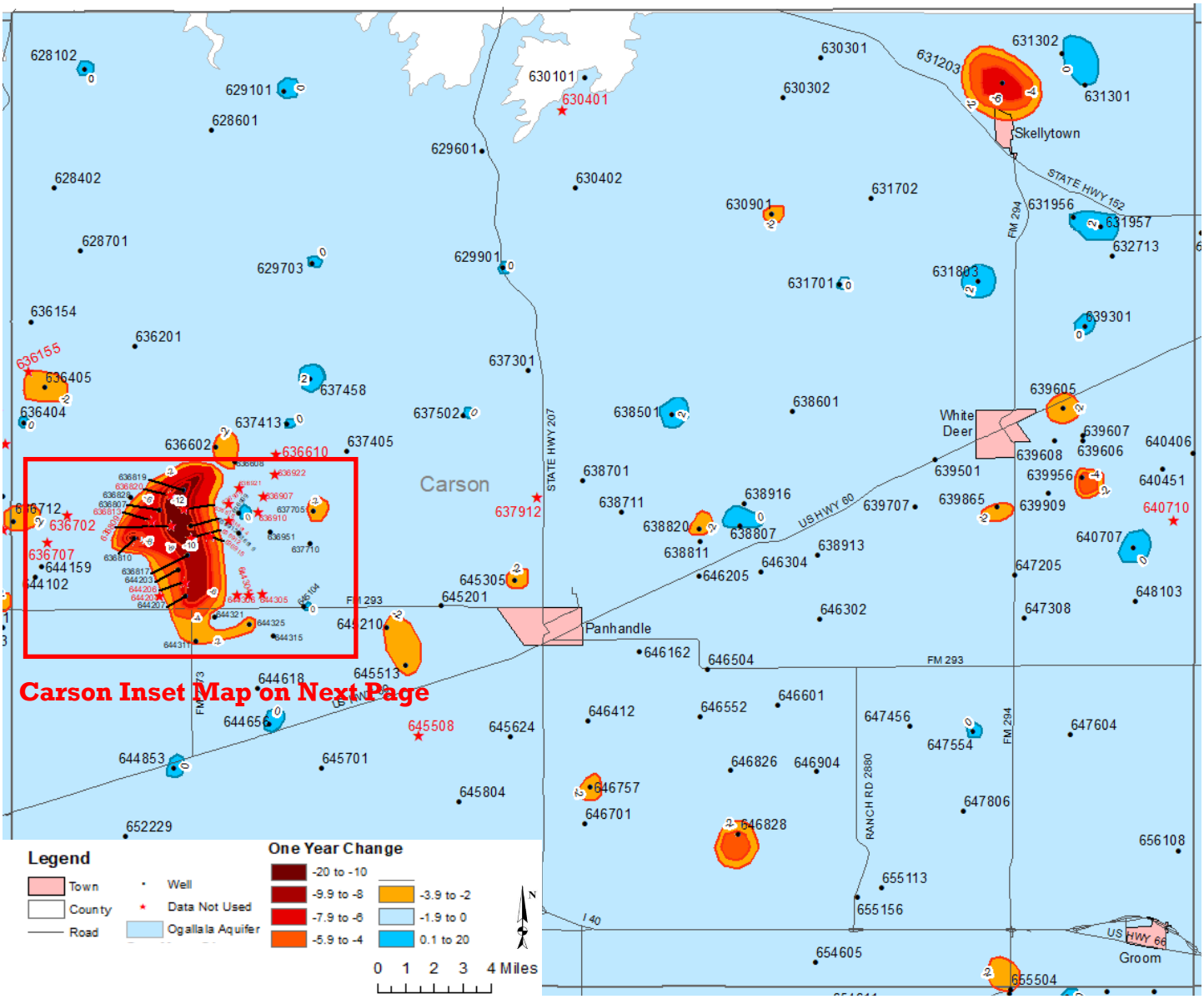
Northeast Armstrong County Ogallala Aquifer
1-Year Change



Armstrong County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
654611	1975	-292.3	-320.8	-321.1	-28.8	-0.3
654752	2003	-225.2	-184.1	-183.4	41.8	0.7
654902	1971	-295.0	-322.4	-321.5	-26.5	0.9
655504	1976	-323.5	-356.7	-359.8	-36.3	-3.1
655511	2000	-340.7	-353.7	-354.2	-13.5	-0.5
655615	1975	-320.5	-363.0	-363.5	-43	-0.5
655617	2001	-310.8	-363.4	-362.9	-52.1	0.5
655901	1975	-220.2	-251.9	-252.2	-32	-0.3
656404	1982	-327.2	-361.3	-362.3	-35.1	-1.0
656701	2005	-334.7	-362.7	-364.1	-29.4	-1.4
656702	1975	-311.4	-346.3	-345.8	-34.4	0.5
661101	1958	-154.2	-154.9	-153.6	0.6	1.3
661311	1975	-195.8	-196.4	-198.8	-3	-2.4

Armstrong County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
662201	1975	-185.0	-186.7	-186.7	-1.7	0.0
662501	1958	-174.9	-182.2	-181.8	-6.9	0.4
662901	2005	-218.5	-217.9	-218.3	0.2	-0.4
663203	2000	-169.4	-179.3	-181.3	-11.9	-2.0
663204	1966	-135.0	-177.4	-177.5	-42.5	-0.1
663213	2014	-161.8	-163.8	-164.5	-2.7	-0.7
663401	1967	-190.0	-197.9	-198.1	-8.1	-0.2
663601	1980	-92.1	-100.7	-101.8	-9.7	-1.1
663802	1972	-190.0	-207.4	-208.1	-18.1	-0.7
663807	2014	-191.2	-189.3	-190.9	0.3	-1.6
664404	1975	-112.0	-123.4	-123.3	-11.3	0.1
664701	1955	-114.0	-152.2	-152.9	-38.9	-0.7
664702	1956	-132.4	-159.5	-160.5	-28.1	-1.0

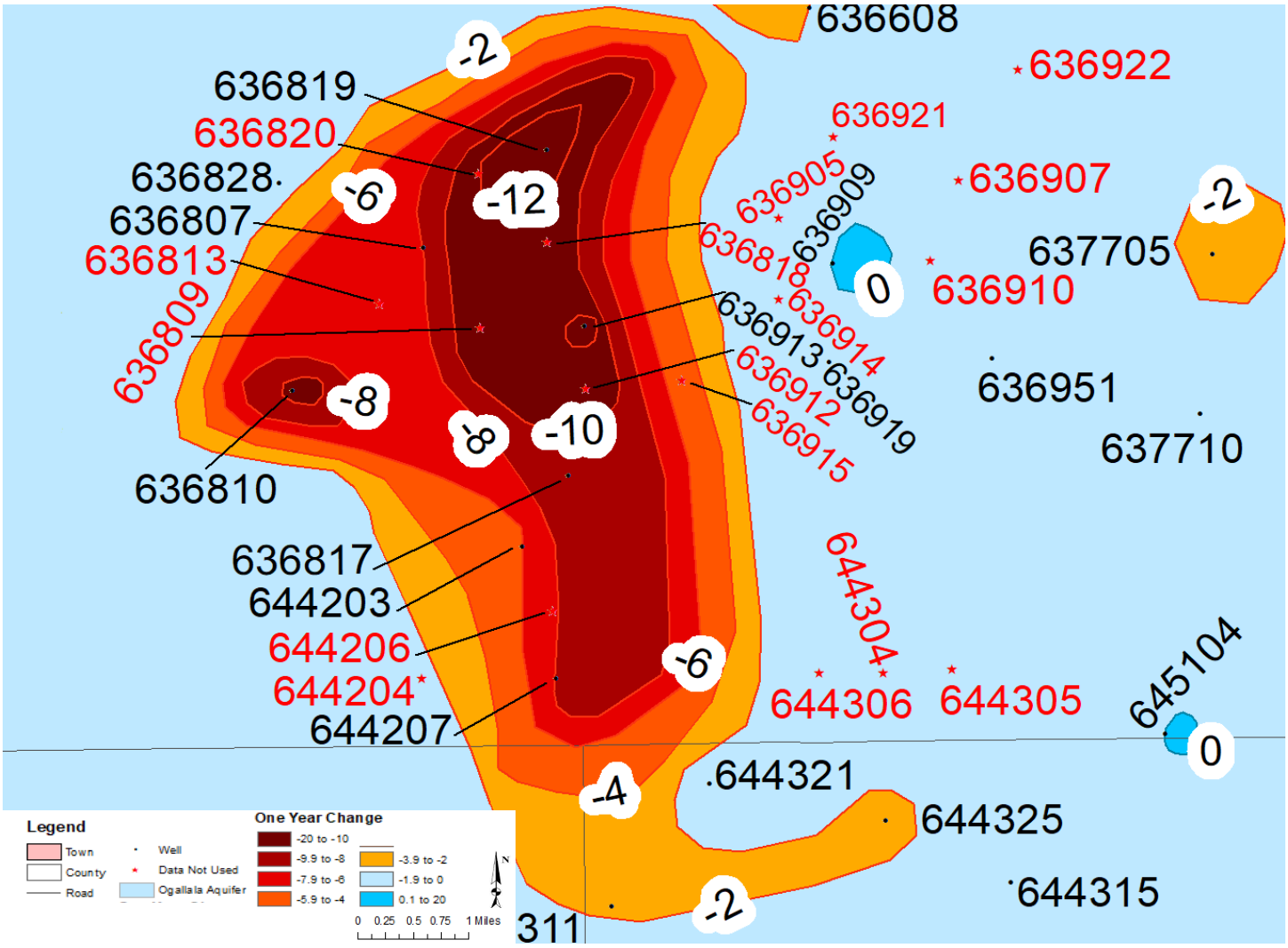
Carson County Ogallala Aquifer
1-Year Change



Carson County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
628102	1966	-169.0	-214.5	-212.9	-43.9	1.6
628402	1977	-187.4	-202.9	-204.2	-16.8	-1.3
628601	1958	-48.4	-70.0	-70.2	-21.8	-0.2
628701	1977	-238.1	-257.2	-257.8	-19.7	-0.6
629601	1982	-53.7	-50.2	-50.4	3.3	-0.2
629703	2003	-286.6	-297.2	-295.9	-9.3	1.3
629901	1982	-76.8	-84.9	-84.4	-7.6	0.5
630101	2003	-53.4	-30.4	-30.6	22.8	-0.2
630301	1977	-147.6	-151.7	-151.8	-4.2	-0.1

Carson County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
630302	2003	-236.3	-226.8	-226.9	9.4	-0.1
630401	1977	-233.9	-159.4	-201.1	32.8	-41.7
630402	2003	-121.1	-119.5	-120.2	0.9	-0.7
630901	2003	-333.3	-325.9	-328.8	4.5	-2.9
631203	1977	-295.2	-300.7	-308.6	-13.4	-7.9
631301	1977	-118.2	-123.6	-123.6	-5.4	0.0
631302	1981	-242.0	-248.9	-248.9	-6.9	0.0
631701	1970	-380.0	-391.0	-390.9	-10.9	0.1
631702	1981	-269.2	-281.0	-281.2	-12	-0.2

Carson County Inset Map Ogallala Aquifer



Carson County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
631803	1999	-426.0	-397.8	-395.2	30.8	2.6
631956	2001	-224.9	-227.3	-226.9	-2	0.4
631957	2001	-327.9	-333.5	-330.9	-3	2.6
632713	2017	-408.1	-407.9	-408.1	0	-0.2
632820	2015	-369.2	-369.6	-369.6	-0.4	0.0
636154	2001	-303.5	-328.8	-329.9	-26.4	-1.1
636155	2013	-367.3		-362.0	5.3	
636201	1977	-333.0	-369.1	-369.8	-36.8	-0.7
636404	2013	-385.0	-391.5	-391.0	-6	0.5
636405	2011	-413.3	-428.8	-431.5	-18.2	-2.7
636602	1969	-421.1	-510.5	-512.7	-91.6	-2.2
636608	1999	-488.4	-526.0	-528.0	-39.6	-2.0
636610	2000	-414.0		-491.0	-77	
636702	1956	-362.0		-474.0	-112	

Carson County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
636707	1981	-439.0		-480.0	-41	
636712	2011	-415.7	-431.3	-433.7	-18	-2.4
636807	1960	-390.0	-525.0	-533.0	-143	-8.0
636808	1956	-362.0	-571.6	-564.0	-202	7.6
636809	1957	-349.0		-536.0	-187	
636810	1956	-389.0	-580.2	-593.0	-204	-12.8
636813	1957	-377.0	-632.1	-612.0	-235	20.1
636817	1959	-379.0	-559.0	-568.0	-189	-9.0
636818	1959	-362.0		-513.0	-151	
636819	1959	-376.0	-519.0	-537.0	-161	-18
636820	1981	-460.0		-539.0	-79	
636828	2014	-545.6	-545.7	-546.8	-1.2	-1.1
636905	1957	-364.0		-551.0	-187	
636907	1960	-367.0		-514.0	-147	

Carson County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
636909	1955	-360.0	-542.0	-542.0	-182	0
636910	1957	-351.0		-503.0	-152	
636912	1956	-353.0		-503.0	-150	
636913	1956	-360.0	-525.2	-541.0	-181	-15.8
636914	1957	-367.0		-421.1	-54.1	
636915	1957	-359.0		-541.0	-182	
636919	1978	-442.0	-525.6	-525.8	-83.8	-0.2
636921	1981	-455.0		-530.0	-75	
636922	1999	-465.0		-483.0	-18	
636951	2012	-484.8	-493.2	-494.7	-9.9	-1.5
637301	1981	-250.8	-284.8	-285.1	-34.3	-0.3
637405	1977	-386.8	-461.6	-462.7	-75.9	-1.1
637413	2006	-446.0	-482.5	-482.0	-36	0.5
637458	2002	-416.7	-444.4	-442.3	-25.6	2.1
637502	2005	-305.4	-325.0	-325.0	-19.6	0
637705	1992	-467.6	-476.1	-479.1	-11.5	-3
637710	2004	-431.6	-455.1	-456.6	-25	-1.5
637912	2001	-401.3	-428.3			
638501	1958	-321.2	-414.9	-411.2	-90	3.7
638601	1956	-306.5	-379.7	-380.1	-73.6	-0.4
638701	1956	-328.3	-434.6	-436.3	-108	-1.7
638711	2001	-431.5	-453.4	-453.5	-22	-0.1
638807	1956	-310.0	-443.1	-441.9	-131.9	1.2
638811	1974	-360.3	-461.9	-462.6	-102.3	-0.7
638820	2015	-446.4	-459.4	-462.1	-15.7	-2.7
638913	2000	-397.4	-435.9	-436.5	-39.1	-0.6
638916	1999	-404.6	-442.3	-443.2	-38.6	-0.9
639301	1958	-383.4	-398.8	-398.4	-15	0.4
639501	1958	-284.4	-384.2	-384.4	-100	-0.2
639605	2005	-395.0	-287.6	-290.2	104.8	-2.6
639606	2005	-377.7	-357.6	-357.3	20.4	0.3
639607	2006	-363.9	-377.9	-378.8	-14.9	-0.9
639608	2005	-353.9	-363.4	-363.6	-9.7	-0.2
639707	2000	-380.4	-403.9	-405.6	-25.2	-1.7
639865	2001	-396.9	-414.7	-416.9	-20	-2.2
639909	2000	-352.4	-360.3	-361.9	-9.5	-1.6
639956	2001	-371.7	-384.1	-388.8	-17.1	-4.7
640406	2016	-399.3	-404.1	-404.3	-5	-0.2
640451	2014	-393.8	-396.9	-397.5	-3.7	-0.6
640707	2016	-396.0	-400.6	-400.2	-4.2	0.4
640710	2020	-354.1		-354.1	0	
644102	2015	-496.8	-501.5	-503.0	-6.2	-1.5
644159	2017	-493.8	-495.7	-497.4	-3.6	-1.7
644203	2000	-532.0	-545.0	-551.0	-19	-6
644204	2000	-487.0		-540.0	-53	

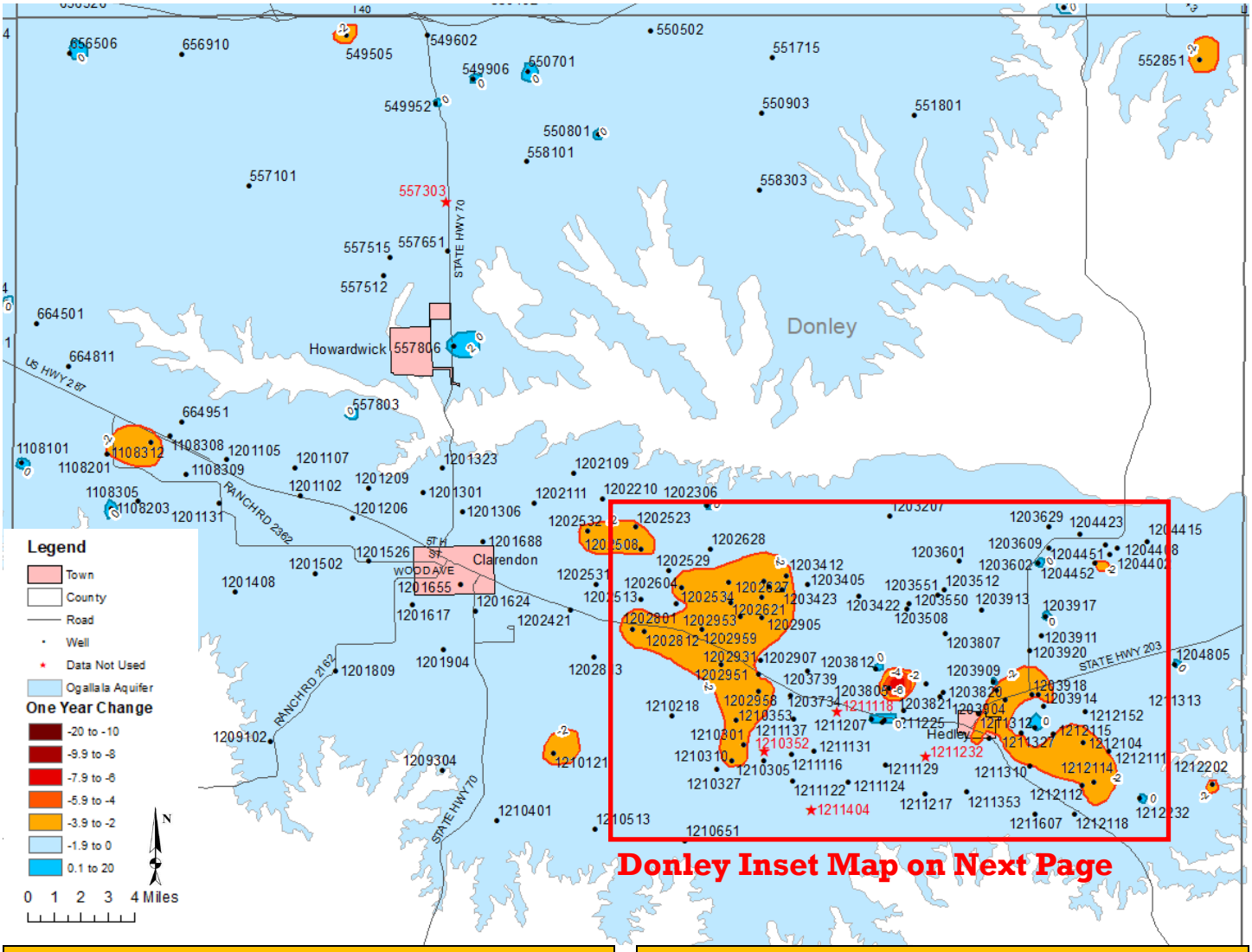
Carson County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
644206	2000	-541.0		-542.0	-1	
644207	2000	-521.0	-529.0	-537.0	-16	-8
644304	2000	-499.0	-522.9	-580.0	-81	-57.1
644305	2000	-429.0		-479.0	-50	
644306	2000	-484.0		-490.0	-6	
644311	1956	-387.0	-518.9	-521.0	-134	-2.1
644315	1992	-487.1	-476.6	-477.1	10	-0.5
644321	2014	-519.0	-528.8	-530.7	-11.7	-1.9
644325	2015	-494.4	-503.8	-506.3	-11.9	-2.5
644618	2006	-439.7	-467.1	-468.3	-28.6	-1.2
644656	2000	-433.0	-447.8	-447.5	-14.5	0.3
645104	2001	-417.7	-451.8	-451.7	-34	0.1
645201	1958	-331.9	-450.8	-452.1	-120.2	-1.3
645210	2001	-431.8	-468.2	-470.3	-38.5	-2.1
645305	2002	-433.8	-461.6	-464.8	-31	-3.2
645508	2019	-441.0	-441.0	-424.5	16.5	16.5
645513	2001	-435.1	-460.9	-463.9	-28.8	-3
645624	2015	-425.9	-431.5	-433.3	-7.4	-1.8
645701	1956	-337.8	-392.1	-393.6	-55.8	-1.5
645804	1994	-323.1	-333.3	-334.2	-11.1	-0.9
646162	2002	-374.9	-388.3	-389.0	-14.1	-0.7
646205	2000	-427.0	-454.8	-455.8	-28.8	-1
646302	1961	-294.5	-388.7	-389.7	-95.2	-1
646304	2011	-415.9	-440.7	-442.2	-26.3	-1.5
646412	2010	-405.7	-433.3	-435.1	-29.4	-1.8
646504	2000	-387.2	-402.1	-402.5	-15.3	-0.4
646552	2000	-354.7	-370.5	-370.6	-15.9	-0.1
646601	1956	-295.2	-380.9	-381.6	-86.4	-0.7
646701	1956	-325.9	-372.2	-373.5	-47.6	-1.3
646757	2003	-375.4	-401.6	-404.0	-28.6	-2.4
646826	2016	-391.8	-403.5	-405.1	-13.3	-1.6
646828	2018	-384.8	-390.7	-394.8	-10	-4.1
646904	2000	-360.5	-374.4	-375.7	-15.2	-1.3
647205	1956	-297.0	-383.3	-383.7	-86.7	-0.4
647308	1969	-296.8	-295.6	-296.1	0.7	-0.5
647456	2017	-351.3	-352.7	-353.2	-1.9	-0.5
647554	2002	-318.4	-314.7	-314.5	3.9	0.2
647604	1980	-286.4	-329.3	-330.6	-44.2	-1.3
647806	2002	-352.1	-373.7	-375.2	-23.1	-1.5
648103	2016	-317.4	-317.8	-318.4	-1	-0.6
652229	2017	-214.8	-213.8	-214.2	0.6	-0.4
654605	2018	-387.6	-390.1	-391.5	-3.9	-1.4
655113	1999	-369.5	-398.4	-400.0	-30.5	-1.6
655156	2002	-371.2	-401.8	-403.0	-31.8	-1.2
656108	1968	-370.0	-315.3	-317.0	53	-1.7

Donley County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
549505	2017	-345.5	-344.1	-346.3	-0.8	-2.2
549602	2018	-340.4	-342.5	-344.4	-4	-1.9
549952	2010	-249.4	-254.1	-254.0	-4.6	0.1
550701	1976	-113.9	-113.4	-112.1	1.8	1.3
550801	2001	-85.8	-105.8	-105.3	-19.5	0.5
550903	1977	-120.0	-109.8	-110.1	9.9	-0.3
551715	1976	-133.5	-114.2	-114.4	19.1	-0.2
552851	2001	-120.4	-121.8	-124.5	-4.1	-2.7
557303	2010	-166.6	-169.0			
557512	1999	-38.7	-42.4	-42.8	-4.1	-0.4
557515	2018	-71.2	-71.0	-71.4	-0.2	-0.4
557651	2018	-91.0	-91.0	-91.7	-0.7	-0.7
557803	1976	-89.1	-91.8	-90.1	-1	1.7
558303	1977	-44.6	-45.8	-46.6	-2	-0.8
656506	1999	-274.0	-349.4	-349.4	-75.4	0
656910	2018	-328.9	-332.5	-334.1	-5.2	-1.6
664501	1958	-109.3	-128.9	-130.0	-20.7	-1.1
664811	1976	-96.2	-121.9	-122.1	-25.9	-0.2
664951	1998	-84.2	-74.0	-74.8	9.4	-0.8
1108101	1999	-96.5	-104.4	-104.1	-7.6	0.3
1108201	1958	-106.5	-136.6	-138.6	-32.1	-2
1108305	2001	-92.4	-113.1	-114.1	-21.7	-1
1108308	1955	-54.5	-85.9	-87.5	-33	-1.6
1108309	2001	-70.5	-93.8	-95.3	-24.8	-1.5
1108312	2000	-69.0	-94.6	-96.8	-27.8	-2.2
1201102	1958	-31.4	-43.3	-44.8	-13.4	-1.5
1201105	2018	-87.5	-89.1	-90.6	-3.1	-1.5
1201107	2004	-46.5	-53.3	-54.1	-7.6	-0.8
1201131	1976	-51.1	-64.3	-65.7	-14.6	-1.4
1201206	1968	-79.1	-77.0	-77.9	1.2	-0.9
1201209	2010	-44.2	-51.4	-52.2	-8	-0.8
1201301	1958	-27.6	-62.3	-64.0	-36.4	-1.7
1201306	1968	-46.8	-74.6	-76.0	-29.2	-1.4
1201408	2017	-100.5	-101.8	-102.2	-1.7	-0.4
1201502	1968	-162.6	-135.2	-135.9	26.7	-0.7
1201526	2010	-103.2	-106.6	-107.0	-3.8	-0.4
1201617	1980	-129.5	-119.4	-119.9	9.6	-0.5
1201624	1977	-112.2	-108.7	-109.4	2.8	-0.7
1201655	2001	-55.0	-67.1	-67.7	-12.7	-0.6
1201688	2012	-49.1	-62.4	-63.4	-14.3	-1
1201904	1980	-152.5	-148.3	-149.0	3.5	-0.7
1202109	2010	-96.0	-103.7	-104.3	-8.3	-0.6
1202111	2015	-115.4	-118.6	-120.0	-4.6	-1.4
1202210	1976	-60.7	-84.8	-86.6	-25.9	-1.8

Donley County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
1202421	2010	-26.2	-34.9	-36.6	-10.4	-1.7
1202508	2010	-83.1	-102.1	-104.2	-21.1	-2.1
1202513	2010	-71.4	-91.6	-93.4	-22	-1.8
1202523	2010	-84.4	-95.9	-98.3	-13.9	-2.4
1202529	2010	-75.5	-95.2	-96.7	-21.2	-1.5
1202531	2010	-59.4	-80.9	-82.2	-22.8	-1.3
1202532	2016	-75.1	-81.3	-83.9	-8.8	-2.6
1202534	2012	-65.8	-76.4	-78.2	-12.4	-1.8
1202604	1967	-46.0	-83.2	-85.8	-39.8	-2.6
1202607	1961	-56.3	-88.2	-91.8	-35.5	-3.6
1202619	2010	-75.2	-88.2	-90.8	-15.6	-2.6
1202621	2010	-52.7	-64.5	-66.8	-14.1	-2.3
1202627	2010	-79.0	-88.1	-90.3	-11.3	-2.2
1202628	2010	-49.5	-62.0	-62.9	-13.4	-0.9
1202653	2010	-99.0	-89.3	-90.8	8.2	-1.5
1202801	2010	-32.5	-48.8	-51.2	-18.7	-2.4
1202812	1977	-18.8	-40.3	-42.5	-23.7	-2.2
1202813	2010	-81.9	-86.1	-87.3	-5.4	-1.2
1202905	2010	-68.6	-76.8	-79.9	-11.3	-3.1
1202907	2000	-12.0	-17.5	-18.9	-6.9	-1.4
1202931	1977	-39.0	-44.7	-46.1	-7.1	-1.4
1202951	2007	-15.1	-24.2	-26.7	-11.6	-2.5
1202953	2010	-48.0	-56.9	-60.2	-12.2	-3.3
1202958	2006	-11.5	-18.4	-21.7	-10.2	-3.3
1202959	2013	-60.5	-65.2	-69.0	-8.5	-3.8
1203207	1976	-77.1	-83.5	-83.9	-6.8	-0.4
1203405	2000	-62.9	-84.0	-84.6	-21.7	-0.6
1203412	2010	-80.6	-89.5	-91.6	-11	-2.1
1203422	2010	-39.8	-45.8	-46.1	-6.3	-0.3
1203423	2010	-89.6	-101.1	-103.7	-14.1	-2.6
1203512	2010	-111.0	-111.9	-112.3	-1.3	-0.4
1203550	2010	-93.1	-91.0	-92.0	1.1	-1.0
1203551	2010	-112.8	-113.8	-114.2	-1.4	-0.4
1203601	1968	-103.7	-103.8	-104.0	-0.3	-0.2
1203602	2010	-111.8	-120.9	-119.8	-8	1.1
1203609	2010	-115.7	-122.2	-123.5	-7.8	-1.3
1203629	2017	-95.2	-95.9	-97.3	-2.1	-1.4
1203734	2009	-34.9	-35.9	-36.0	-1.1	-0.1
1203739	2015	-27.1	-27.7	-28.1	-1	-0.4
1203805	2010	-67.7	-70.9	-76.9	-9.2	-6.0
1203807	2018	-125.8	-126.4	-126.9	-1.1	-0.5
1203809	2009	-55.3	-61.9	-62.4	-7.1	-0.5
1203812	2012	-81.7	-93.5	-93.3	-11.6	0.2
1203820	2010	-70.5	-75.5	-76.5	-6	-1.0

Donley Wells Continued on Next Page

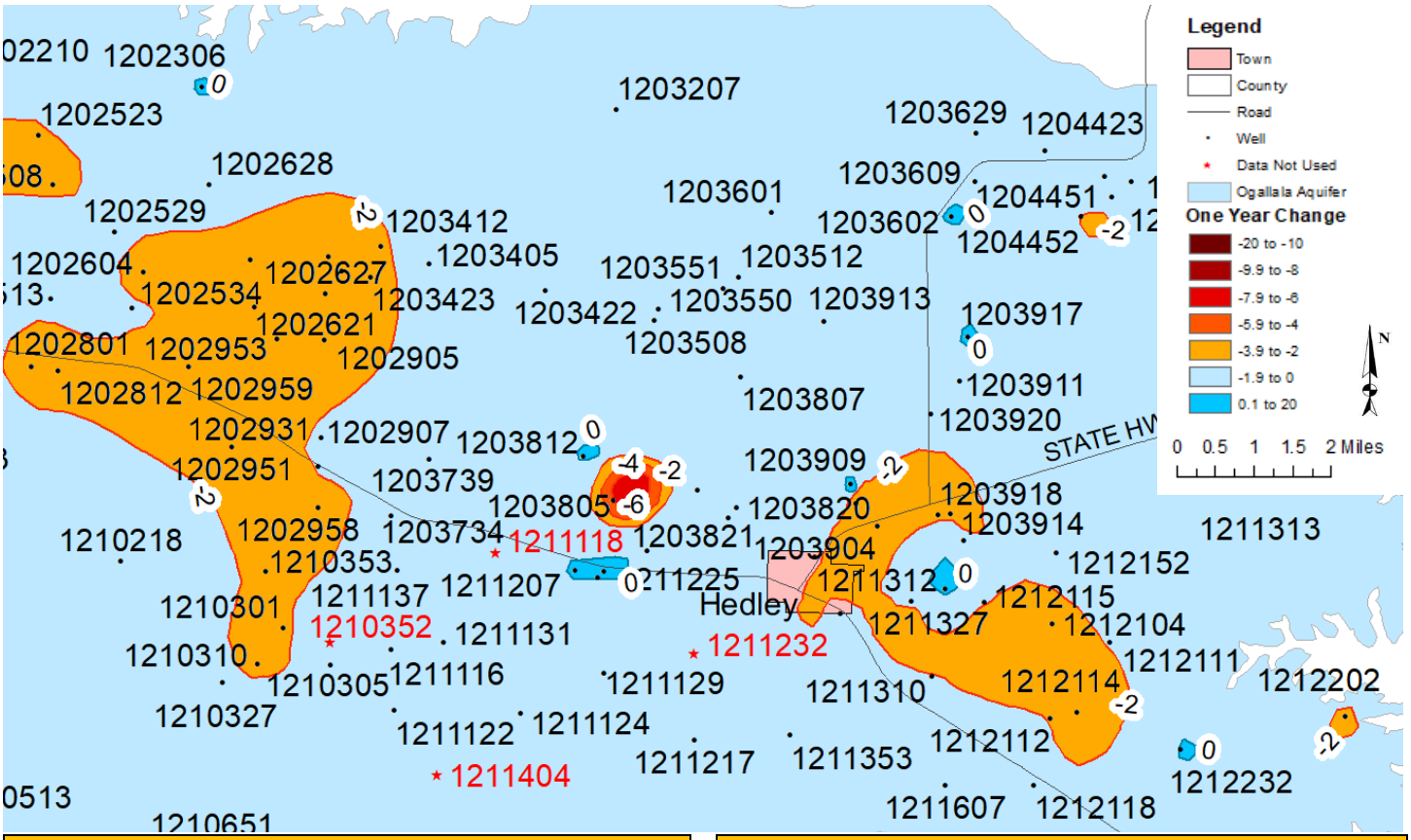
Donley County Ogallala Aquifer
1-Year Change



Donley County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
1203821	2010	-62.7	-65.8	-66.3	-3.6	-0.5
1203904	1978	-69.8	-70.4	-73.4	-3.6	-3
1203908	2010	-76.1	-82.3	-85.8	-9.7	-3.5
1203909	2010	-83.8	-90.5	-90.0	-6.2	0.5
1203911	2007	-46.8	-53.2	-53.4	-6.6	-0.2
1203913	2010	-99.9	-103.5	-104.0	-4.1	-0.5
1203914	2010	-96.6	-104.1	-107.0	-10.4	-2.9
1203915	2009	-90.4	-88.0	-90.6	-0.2	-2.6
1203917	2010	-46.2	-51.4	-51.0	-4.8	0.4
1203918	2010	-78.6	-79.3	-80.2	-1.6	-0.9
1203920	2014	-51.9	-50.5	-51.8	0.1	-1.3
1204402	2010	-115.2	-125.0	-126.7	-11.5	-1.7

Donley County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
1204408	2010	-113.7	-125.4	-126.6	-12.9	-1.2
1204415	2010	-97.0	-104.9	-106.0	-9	-1.1
1204423	2017	-125.6	-127.2	-128.4	-2.8	-1.2
1204451	2008	-121.7	-136.4	-137.7	-16	-1.3
1204452	2009	-127.4	-141.5	-143.5	-16.1	-2
1204711	2009	-52.4	-44.1	-37.0	15.4	7.1
1204805	1980	-40.4	-37.3	-37.1	3.3	0.2
1209102	2001	-99.7	-101.3	-101.6	-1.9	-0.3
1209304	1977	-25.5	-26.5	-27.6	-2.1	-1.1
1210121	2006	-129.3	-134.0	-137.4	-8.1	-3.4
1210218	1977	-63.7	-66.5	-66.8	-3.1	-0.3
1210301	2000	-9.2	-20.4	-22.6	-13.4	-2.2

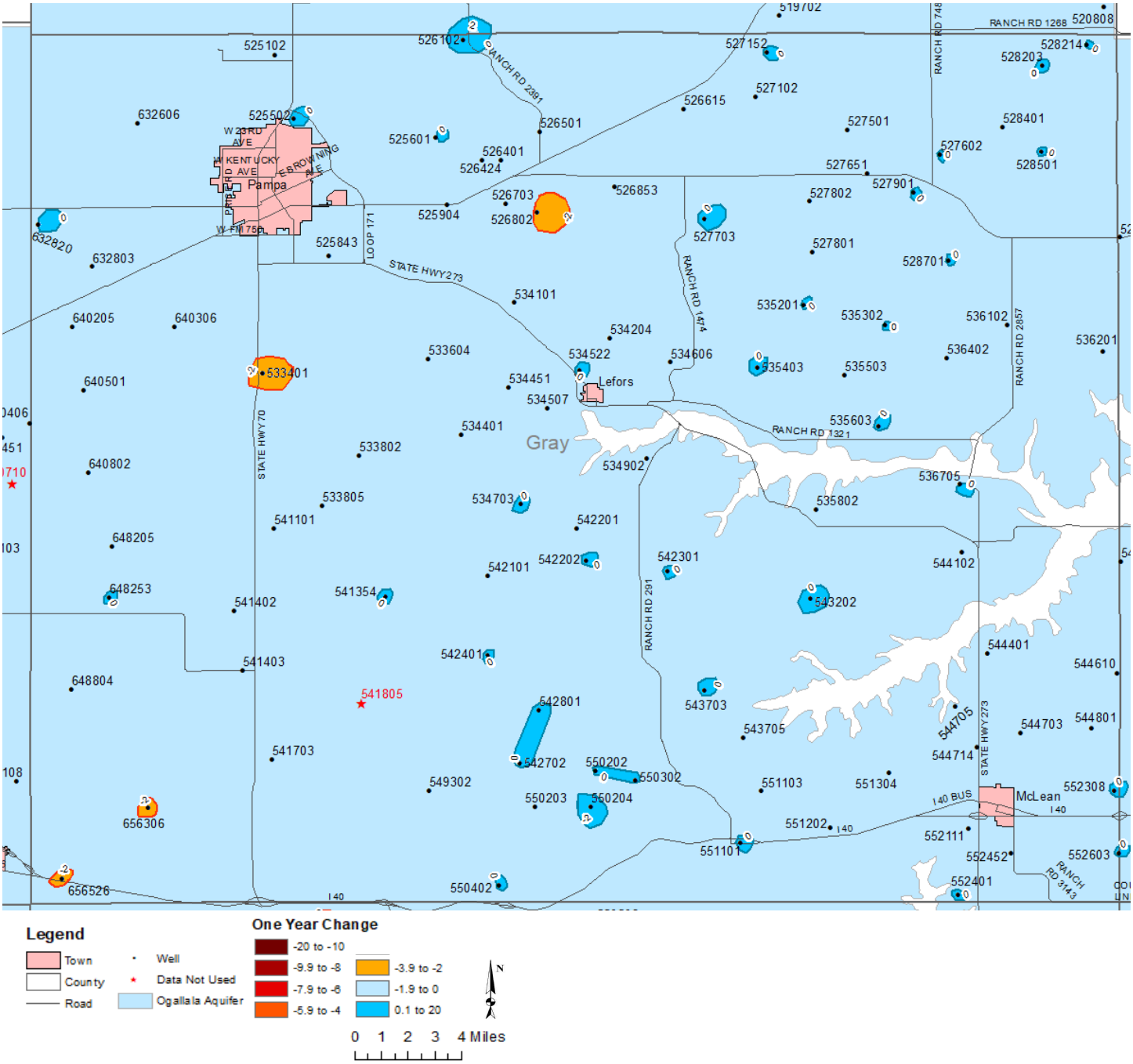
Donley County Inset Ogallala Aquifer 1-Year Change



Donley County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
1210305	1968	-32.6	-45.4	-46.6	-14	-1.2
1210310	2000	-19.8	-33.8	-36.4	-16.6	-2.6
1210327	2015	-47.0	-46.1	-47.0	0	-0.9
1210352	2010	-35.6				
1210353	2000	-17.3	-25.9	-28.0	-10.7	-2.1
1210401	1958	-111.6	-113.5	-113.9	-2.3	-0.4
1210513	2004	-116.2	-117.6	-117.7	-1.5	-0.1
1210651	2011	-67.8	-68.6	-69.3	-1.5	-0.7
1211116	2010	-112.4	-117.2	-118.3	-5.9	-1.1
1211118	2008	-100.6		-105.8	-5.2	
1211122	2009	-114.4	-115.3	-116.0	-1.6	-0.7
1211124	2009	-183.2	-188.1	-188.5	-5.3	-0.4
1211129	2009	-183.9	-165.6	-166.5	17.4	-0.9
1211131	2009	-76.3	-82.3	-82.6	-6.3	-0.3
1211137	2017	-113.1	-113.4	-114.0	-0.9	-0.6
1211202	2015	-56.6	-54.6	-54.8	1.8	-0.2
1211207	1961	-82.4	-107.9	-107.1	-24.7	0.8
1211212	2010	-90.7	-84.8	-85.1	5.6	-0.3
1211217	2017	-143.7	-143.8	-144.1	-0.4	-0.3

Donley County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
1211225	2010	-71.6	-69.9	-69.8	1.8	0.1
1211232	2010	-165.5	1.0			
1211310	1977	-88.3	-77.7	-79.6	8.7	-1.9
1211312	2010	-57.4	-63.1	-64.8	-7.4	-1.7
1211313	2010	-147.1	-156.3	-154.7	-7.6	1.6
1211320	2009	-83.3	-87.8	-89.5	-6.2	-1.7
1211327	2010	-119.0	-124.8	-127.6	-8.6	-2.8
1211353	1997	-104.1	-111.5	-111.7	-7.6	-0.2
1211404	1977	-193.0	-199.4			
1211607	2009	-133.4	-136.6	-136.9	-3.5	-0.3
1212104	1999	-189.9	-127.6	-131.3	58.6	-3.7
1212111	2009	-59.8	-62.1	-63.5	-3.7	-1.4
1212112	2007	-85.2	-86.7	-87.6	-2.4	-0.9
1212114	2009	-87.2	-88.1	-92.4	-5.2	-4.3
1212115	2009	-125.1	-128.4	-130.9	-5.8	-2.5
1212118	2009	-72.9	-90.0	-91.1	-18.2	-1.1
1212152	2009	-95.3	-98.4	-99.5	-4.2	-1.1
1212202	1977	-90.9	-86.3	-88.5	2.4	-2.2
1212232	2009	-109.3	-107.7	-107.6	1.7	0.1

Gray County Ogallala Aquifer
1-Year Change



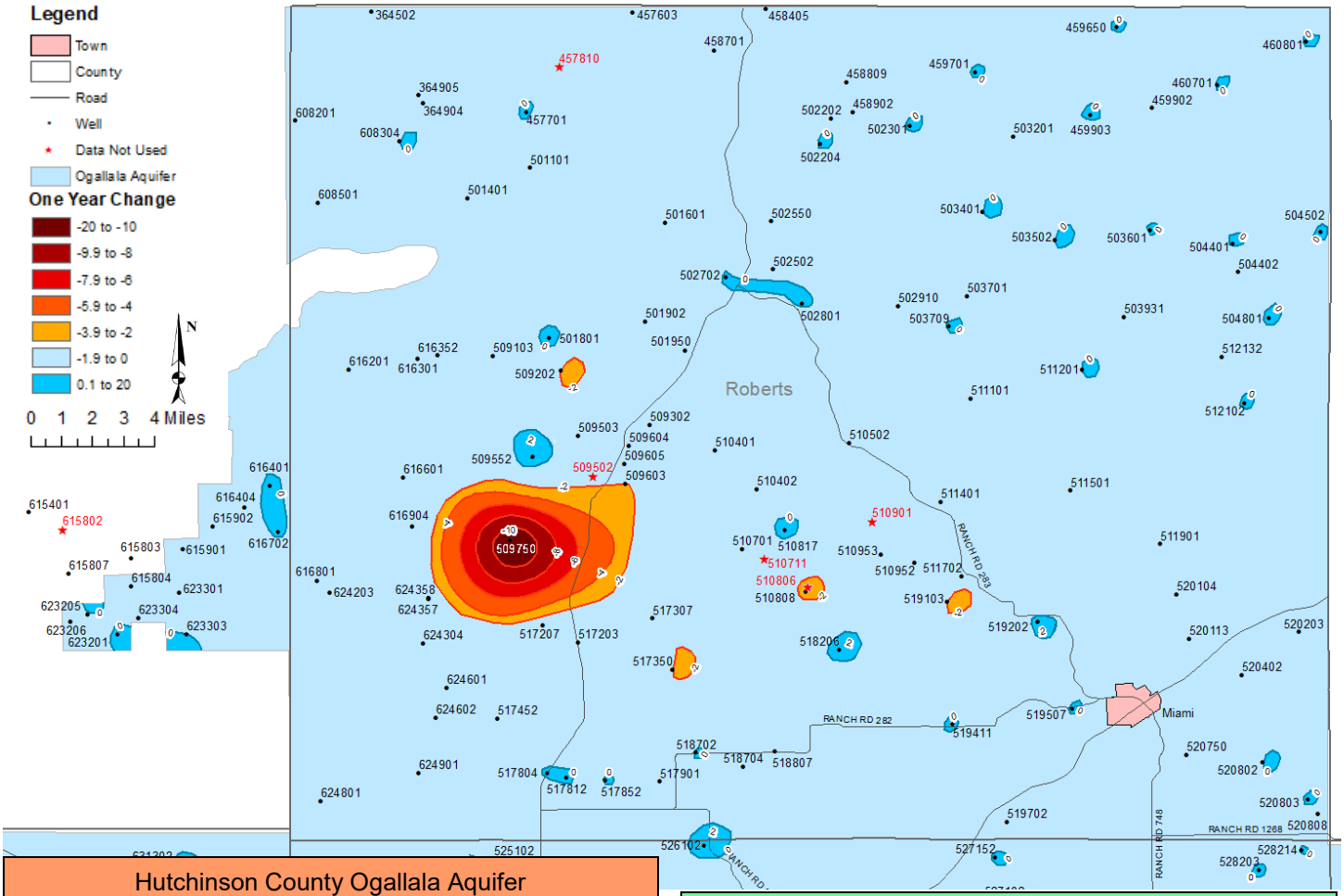
Gray County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
525102	2013	-355.0	-392.4	-393.3	-38.3	-0.9
525502	1969	-352.1	-354.7	-354.5	-2.4	0.2
525601	2002	-369.0	-372.3	-372.3	-3.3	0

Gray County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
525843	2014	-377.8	-378.3	-379.7	-1.9	-1.4
525904	1958	-347.9	-371.8	-372.7	-24.8	-0.9
526102	2006	-370.0	-361.1	-359.1	10.9	2

Gray County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
526401	1973	-365.0	-377.9	-378.0	-13	-0.1
526424	2019	-380.9	-380.9	-381.7	-0.8	-0.8
526501	1958	-346.0	-369.4	-371.1	-25.1	-1.7
526615	2014	-377.6	-382.6	-383.2	-5.6	-0.6
526703	2014	-378.1	-369.4	-370.0	8.1	-0.6
526802	1999	-355.2	-359.9	-362.2	-7	-2.3
526853	1999	-364.7	-371.3	-372.8	-8.1	-1.5
527102	1961	-343.1	-370.4	-370.8	-27.7	-0.4
527152	2009	-344.3	-350.7	-350.5	-6.2	0.2
527501	1974	-339.0	-354.6	-354.9	-15.9	-0.3
527602	1975	-324.0	-336.0	-335.7	-11.7	0.3
527651	2009	-348.1	-346.8	-347.1	1	-0.3
527703	1980	-360.2	-377.3	-376.3	-16.1	1
527801	1968	-118.4	-136.6	-136.9	-18.5	-0.3
527802	1975	-342.0	-346.6	-346.9	-4.9	-0.3
527901	1958	-331.5	-342.6	-342.1	-10.6	0.5
528203	1994	-340.6	-344.7	-344.1	-3.5	0.6
528214	2012	-348.2	-350.0	-349.7	-1.5	0.3
528401	1958	-321.4	-337.1	-337.6	-16.2	-0.5
528501	1974	-297.0	-287.3	-286.5	10.5	0.8
528701	1972	-112.0	-114.9	-114.2	-2.2	0.7
533401	1958	-324.8	-353.0	-355.8	-31	-2.8
533604	1999	-76.7	-79.2	-79.8	-3.1	-0.6
533802	1971	-210.0	-211.9	-212.1	-2.1	-0.2
533805	2010	-342.9	-344.9	-345.2	-2.3	-0.3
534101	1966	-150.0	-143.5	-144.0	6	-0.5
534204	1965	-180.0	-196.6	-196.9	-16.9	-0.3
534401	1963	-116.0	-120.4	-120.5	-4.5	-0.1
534451	2002	-108.8	-111.8	-112.1	-3.3	-0.3
534507	1977	-34.8	-35.1	-35.2	-0.4	-0.1
534522	2016	-54.0	-76.6	-76.5	-22.5	0.1
534606	1977	-74.0	-75.4	-75.5	-1.5	-0.1
534703	1962	-85.0	-76.8	-75.9	9.1	0.9
534902	1977	-73.0	-71.7	-71.8	1.2	-0.1
535201	1968	-109.9	-123.4	-123.0	-13.1	0.4
535302	1969	-14.0	-17.3	-17.1	-3.1	0.2
535403	1968	-120.0	-126.7	-126.1	-6.1	0.6
535503	1978	-77.0	-76.7	-76.9	0.1	-0.2
535802	1968	-116.2	-120.1	-120.3	-4.1	-0.2
536102	1979	-163.0	-167.9	-168.1	-5.1	-0.2
536201	1968	-144.6	-152.7	-153.3	-8.7	-0.6
536402	1977	-9.6	-8.2	-8.7	0.9	-0.5
541101	1958	-339.6	-377.9	-378.1	-38.5	-0.2
541354	2012	-354.8	-363.3	-362.9	-8.1	0.4

Gray County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
541402	2015	-318.8	-319.6	-320.8	-2	-1.2
541403	1981	-290.4	-296.7	-297.5	-7.1	-0.8
541703	2019	-260.6	-260.6	-261.2	-0.6	-0.6
541805	2018	-269.8		-269.1	0.7	
542101	1968	-252.2	-264.5	-264.9	-12.7	-0.4
542201	1968	-128.7	-132.9	-133.0	-4.3	-0.1
542202	1977	-262.5	-263.0	-262.2	0.3	0.8
542301	1968	-136.4	-141.3	-140.7	-4.3	0.6
542401	1968	-193.9	-203.2	-202.9	-9	0.3
542702	1978	-144.7	-146.1	-146.0	-1.3	0.1
542801	1968	-78.1	-83.2	-83.1	-5	0.1
543202	1977	-111.3	-114.3	-113.1	-1.8	1.2
543703	1968	-15.3	-16.3	-15.9	-0.6	0.4
544401	1968	-64.0	-63.2	-63.5	0.5	-0.3
544610	1967	-178.0	-187.5	-187.7	-9.7	-0.2
544703	1977	-132.6	-131.1	-131.2	1.4	-0.1
544705	1977	-66.0	-65.7	-66.3	-0.3	-0.6
544714	2006	-109.8	-114.7	-115.9	-6.1	-1.2
544801	1968	-116.1	-114.9	-115.2	0.9	-0.3
549302	2005	-214.0	-197.2	-197.6	16.4	-0.4
550202	1977	-26.0	-24.5	-23.6	2.4	0.9
550203	1977	-58.7	-57.0	-57.3	1.4	-0.3
550204	1977	-52.9	-55.8	-53.6	-0.7	2.2
550302	1968	-88.0	-87.8	-87.7	0.3	0.1
551101	1968	-216.0	-216.5	-216.1	-0.1	0.4
551103	1991	-138.7	-139.4	-139.6	-0.9	-0.2
551202	1977	-193.9	-195.7	-196.0	-2.1	-0.3
551304	1977	-75.6	-78.9	-79.2	-3.6	-0.3
552111	1977	-113.2	-111.4	-111.9	1.3	-0.5
552308	1967	-107.0	-106.4	-105.2	1.8	1.2
552401	1968	-85.8	-74.5	-73.9	11.9	0.6
552452	2001	-105.7	-113.1	-113.8	-8.1	-0.7
552603	1967	-21.0	-21.9	-21.8	-0.8	0.1
632606	1980	-378.8	-366.5	-367.2	11.6	-0.7
632803	1967	-375.0	-396.5	-397.1	-22.1	-0.6
640205	1982	-384.3	-389.3	-389.4	-5.1	-0.1
640306	1965	-317.5	-392.2	-392.5	-75	-0.3
640501	1980	-362.7	-378.0	-379.5	-16.8	-1.5
640802	1968	-326.5	-377.0	-377.1	-50.6	-0.1
648205	2014	-378.8	-382.4	-382.8	-4	-0.4
648253	1974	-340.0	-361.4	-361.1	-21.1	0.3
648804	2013	-289.8	-291.8	-293.0	-3.2	-1.2
656306	1980	-273.6	-290.5	-294.3	-20.7	-3.8
656526	2013	-304.4	-313.9	-316.5	-12.1	-2.6

Hutchinson and Roberts Ogallala Aquifer
1-Year Change

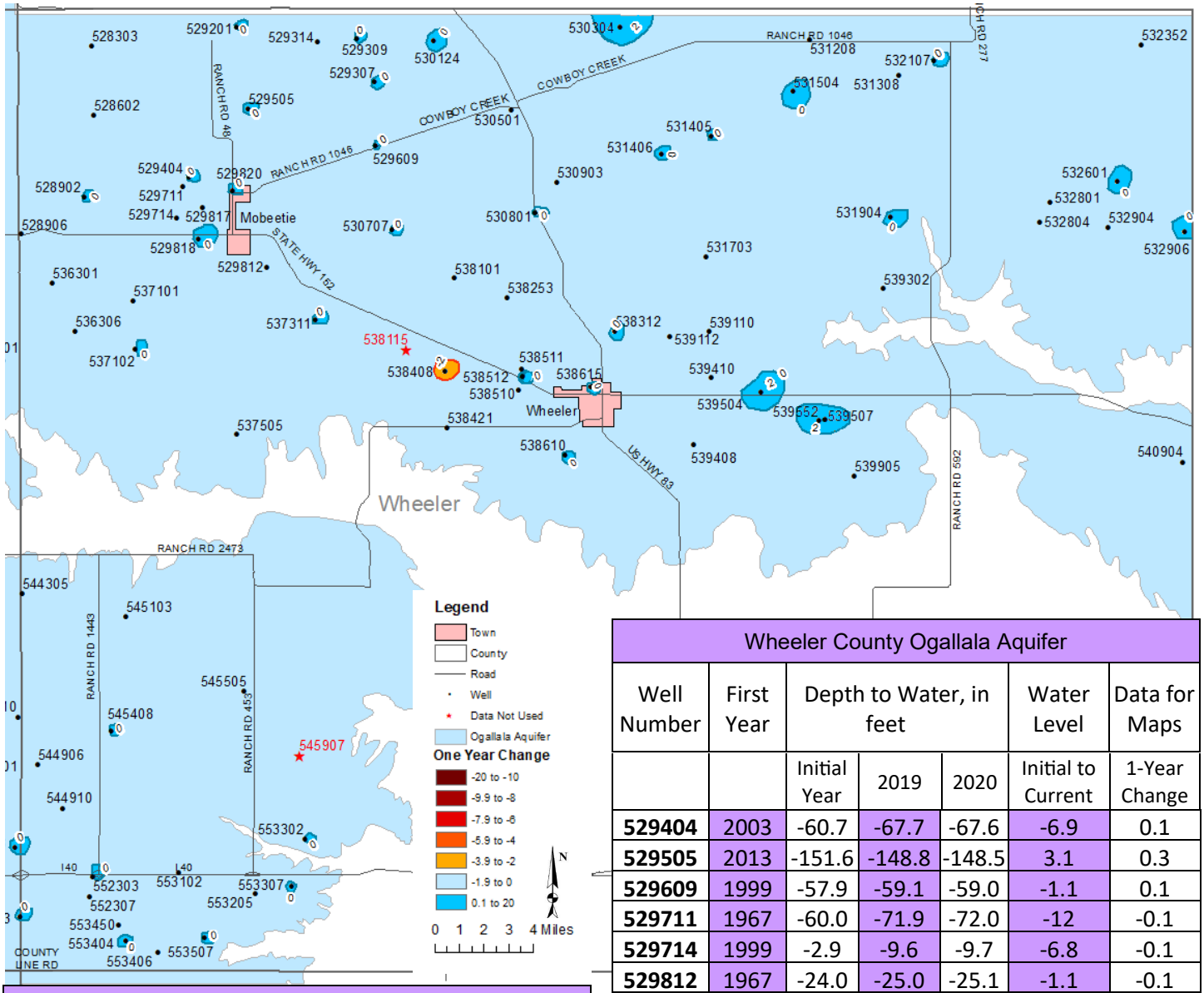


Hutchinson County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
615301	1999	-131.2	-115.7	-116.2	15	-0.5
615401	2008	-137.2	-133.5	-133.5	3.7	0.0
615802	1982	-166.5	-152.7	-177.7	-11.2	-25
615803	1999	-79.1	-83.0	-83.6	-4.5	-0.6
615804	1999	-111.4	-111.9	-112.3	-0.9	-0.4
615807	2019	-146.6	-146.6	-147.2	-0.6	-0.6
615901	1999	-73.3	-74.8	-75.1	-1.8	-0.3
615902	2004	-25.7	-25.5	-25.7	0	-0.2
616401	2001	-294.6	-293.4	-291.7	2.9	1.7
616404	1999	-101.8	-102.4	-102.8	-1	-0.4
616702	2004	-237.4	-246.4	-246.2	-8.8	0.2
623201	1955	-190.0	-206.8	-206.4	-16.4	0.4
623205	2004	-154.6	-158.0	-159.2	-4.6	-1.2
623206	2016	-197.1	-197.9	-197.9	-0.8	0.0
623301	1999	-116.2	-116.8	-117.0	-0.8	-0.2
623303	2003	-103.8	-98.0	-98.0	5.8	0.0
623304	2004	-190.8	-191.2	-191.2	-0.4	0.0

Roberts County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
364502	1977	-412.0	-459.1	-460.4	-48.4	-1.3
364904	2000	-108.6	-120.0	-120.6	-12	-0.6
364905	2007	-94.8	-103.5	-104.0	-9.2	-0.5
457603	2006	-401.6	-412.7	-413.9	-12.3	-1.2
457701	2003	-22.0	-29.8	-29.4	-7.4	0.4
457810	1999	-253.4		-261.3	-7.9	
458405	2000	-337.8	-346.9	-347.6	-9.8	-0.7
458701	1980	-73.8	-96.2	-96.3	-22.5	-0.1
458809	2014	-161.4	-161.9	-162.4	-1	-0.5
458902	2004	-117.4	-120.6	-120.9	-3.5	-0.3
459650	2000	-275.8	-273.1	-273.0	2.8	0.1
459701	1980	-48.4	-56.3	-56.2	-7.8	0.1
459902	1999	-46.6	-47.7	-47.8	-1.2	-0.1
459903	1999	-39.7	-41.7	-41.3	-1.6	0.4
460701	1996	-96.9	-97.9	-97.8	-0.9	0.1
460801	1980	-189.3	-186.8	-186.5	2.8	0.3

Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
501101	1977	-65.0	-59.5	-60.4	4.6	-0.9
501401	1980	-49.2	-55.3	-55.4	-6.2	-0.1
501601	2008	-88.0	-83.2	-83.9	4.1	-0.7
501801	1969	-240.0	-243.8	-243.2	-3.2	0.6
501902	1998	-188.6	-209.7	-210.6	-22	-0.9
501950	2003	-127.8	-132.3	-132.8	-5	-0.5
502202	1980	-67.2	-71.1	-71.2	-4	-0.1
502204	2007	-18.4	-13.0	-12.9	5.5	0.1
502502	1975	-112.0	-108.5	-108.6	3.4	-0.1
502550	2000	-101.1	-102.6	-102.8	-1.7	-0.2
502702	1980	-57.5	-61.3	-60.7	-3.2	0.6
502801	1974	-11.0	-8.6	-8.3	2.7	0.3
502910	2012	-166.9	-168.5	-168.7	-1.8	-0.2
503401	1970	-95.0	-100.6	-100.6	-5.6	0
503502	1999	-29.5	-32.5	-32.5	-3	0
503601	1980	-85.0	-87.2	-87.1	-2.1	0.1
503701	1975	-85.4	-87.0	-87.4	-2	-0.4
503709	2005	-276.7	-279.3	-279.1	-2.4	0.2
503931	2011	-50.3	-51.9	-52.0	-1.7	-0.1
504401	1976	-99.1	-100.9	-100.8	-1.7	0.1
504402	1996	-167.0	-168.8	-169.0	-2	-0.2
504502	1977	-116.7	-117.0	-116.6	0.1	0.4
504801	1980	-221.9	-162.8	-162.3	59.6	0.5
509103	2015	-51.0	-55.5	-56.5	-5.5	-1
509202	1975	-236.2	-269.8	-271.8	-35.6	-2
509302	1976	-174.0	-197.0	-198.5	-24.5	-1.5
509502	2000	-278.9		-321.0	-42.1	
509503	2002	-250.7	-281.2	-282.8	-32.1	-1.6
509552	2002	-80.4	-136.7	-134.0	-53.6	2.7
509603	1980	-181.3	-218.3	-220.3	-39	-2
509604	2003	-180.4	-203.7	-205.2	-24.8	-1.5
509605	2004	-233.1	-259.7	-260.4	-27.3	-0.7
509750	1999	-283.5	-468.9	-481.0	-197.5	-12.1
509757	1999	-283.3	-468.9	-480.7	-197.4	-11.8
510401	1976	-166.1	-171.7	-173.0	-6.9	-1.3
510402	2004	-251.8	-293.5	-294.9	-43.1	-1.4
510502	1977	-240.2	-262.3	-263.8	-23.6	-1.5
510701	2004	-279.6	-368.9	-370.7	-91.1	-1.8
510711	2013	-343.4		-362.6	-19.2	
510806	2010	-416.4	-423.1	-463.8	-47.4	-40.7
510808	2010	-373.2	-411.9	-415.7	-42.5	-3.8
510817	2011	-187.1	-205.8	-204.9	-17.8	0.9
510901	1975	-166.7				
510952	2001	-345.4	-416.9	-417.5	-72.1	-0.6
510953	2001	-184.7	-265.5	-265.6	-80.9	-0.1
511101	1977	-281.6	-294.2	-294.9	-13.3	-0.7
511201	1977	-292.2	-296.9	-296.9	-4.7	0
511401	1976	-344.1	-329.2	-329.4	14.7	-0.2
511501	1980	-310.9	-322.0	-323.1	-12.2	-1.1
511702	1977	-358.4	-456.2	-458.1	-99.7	-1.9
511901	1980	-274.8	-283.3	-283.7	-8.9	-0.4
512102	1999	-281.7	-280.6	-280.3	1.4	0.3
512132	2019	-329.6	-329.6	-330.0	-0.4	-0.4
517203	1999	-319.9	-334.4	-334.7	-14.8	-0.3
517207	2012	-195.9	-205.8	-207.7	-11.8	-1.9
517307	2010	-122.8	-139.2	-140.7	-17.9	-1.5
517350	2002	-341.0	-355.6	-357.6	-16.6	-2
517452	2002	-355.5	-364.0	-365.0	-9.5	-1
517804	1980	-396.6	-407.9	-407.1	-10.5	0.8
517812	2017	-402.1	-404.8	-403.5	-1.4	1.3
517852	2001	-405.7	-411.9	-411.8	-6.1	0.1
517901	1996	-390.3	-399.0	-399.5	-9.2	-0.5
518206	2009	-393.1	-456.1	-454.0	-60.9	2.1
518250	2002	-333.6	-485.3	-473.3	-139.7	12
518702	1975	-387.3	-397.2	-396.9	-9.6	0.3
518704	1996	-381.2	-389.2	-389.5	-8.3	-0.3
518807	2010	-372.6	-379.9	-380.3	-7.7	-0.4
519103	2012	-424.6	-423.8	-425.8	-1.2	-2
519202	1975	-372.7	-389.3	-387.3	-14.6	2
519411	2014	-364.0	-366.6	-366.0	-2	0.6
519507	2017	-295.5	-293.8	-293.7	1.8	0.1
519702	1972	-294.0	-265.1	-266.0	28	-0.9
520104	1976	-150.0	-152.6	-152.7	-2.7	-0.1
520113	2009	-65.5	-74.1	-74.2	-8.7	-0.1
520203	1977	-112.2	-113.4	-113.5	-1.3	-0.1
520402	1970	-302.0	-297.1	-297.2	4.8	-0.1
520750	2000	-291.1	-293.4	-294.0	-2.9	-0.6
520802	1980	-249.9	-245.6	-245.6	4.3	0
520803	2011	-327.8	-327.5	-327.4	0.4	0.1
520808	2012	-315.3	-316.1	-316.2	-0.9	-0.1
608201	1980	-159.6	-180.4	-181.5	-21.9	-1.1
608304	2009	-79.8	-85.9	-85.9	-6.1	0
608501	1980	-56.2	-67.4	-67.7	-11.5	-0.3
616201	2003	-144.5	-147.3	-148.2	-3.7	-0.9
616301	1975	-198.0	-188.8	-189.6	8.4	-0.8
616352	2003	-180.8	-189.4	-189.7	-8.9	-0.3
616601	1999	-215.9	-281.1	-282.7	-66.8	-1.6
616801	1977	-212.6	-229.2	-230.2	-17.6	-1
616904	1998	-224.3	-330.4	-331.8	-107.5	-1.4
624203	1999	-240.4	-254.1	-254.7	-14.3	-0.6
624304	1999	-279.3	-312.9	-313.4	-34.1	-0.5
624353	1999	-295.1	-357.4	-359.3	-64.2	-1.9
624357	1999	-295.0	-357.1	-358.9	-63.9	-1.8
624358	1999	-292.5	-345.6	-346.8	-54.3	-1.2
624601	1996	-200.4	-213.2	-214.1	-13.7	-0.9
624602	2001	-327.1	-330.5	-331.4	-4.3	-0.9
624801	1977	-77.5	-112.1	-113.1	-35.6	-1
624901	1976	-350.5	-360.2	-361.1	-10.6	-0.9

Wheeler County Ogallala Aquifer
1-Year Change



Wheeler County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
528303	2000	-297.4	-298.7	-299.5	-2.1	-0.8
528602	1979	-111.0	-117.8	-119.3	-8.3	-1.5
528902	1978	-24.7	-41.4	-40.6	-15.9	0.8
528906	2003	-167.0	-178.8	-179.2	-12.2	-0.4
529201	1956	-140.2	-140.9	-140.8	-0.6	0.1
529307	1975	-135.0	-118.1	-117.9	17.1	0.2
529309	2018	-93.1	-92.3	-92.0	1.1	0.3
529314	2018	-66.2	-66.6	-67.0	-0.8	-0.4

Wheeler County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
529404	2003	-60.7	-67.7	-67.6	-6.9	0.1
529505	2013	-151.6	-148.8	-148.5	3.1	0.3
529609	1999	-57.9	-59.1	-59.0	-1.1	0.1
529711	1967	-60.0	-71.9	-72.0	-12	-0.1
529714	1999	-2.9	-9.6	-9.7	-6.8	-0.1
529812	1967	-24.0	-25.0	-25.1	-1.1	-0.1
529817	1979	-73.3	-72.0	-72.1	1.2	-0.1
529818	1979	-51.2	-59.3	-58.2	-7	1.1
529820	1987	-64.0	-75.8	-75.5	-11.5	0.3
530124	2006	-26.3	-27.7	-26.7	-0.4	1.0
530304	1975	-110.0	-88.7	-85.5	24.5	3.2
530501	1953	-97.6	-110.0	-110.8	-13.2	-0.8
530707	1980	-13.8	-14.1	-14.0	-0.2	0.1
530801	1960	-60.9	-68.6	-68.5	-7.6	0.1
530903	1978	-80.9	-81.0	-81.4	-0.5	-0.4
531208	2012	-155.9	-155.5	-156.5	-0.6	-1.0
531308	2019	-55.0	-55.0	-55.1	-0.1	-0.1
531405	2000	-11.7	-15.9	-15.8	-4.1	0.1
531406	1976	-95.0	-83.3	-83.0	12	0.3
531504	1980	-38.6	-37.5	-35.7	2.9	1.8

Wheeler County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
531703	1971	-104.0	-90.1	-90.4	13.6	-0.3
531904	2007	-78.8	-78.2	-78.1	0.7	0.1
532107	1972	-65.0	-55.0	-54.8	10.2	0.2
532352	2003	-98.4	-95.2	-95.5	2.9	-0.3
532601	1980	-97.8	-72.1	-71.1	26.7	1
532801	1980	-20.8	-1.0	-1.5	19.3	-0.5
532804	1999	-18.0	-17.2	-17.3	0.7	-0.1
532904	2001	-62.4	-65.2	-65.6	-3.2	-0.4
532906	2005	-18.0	-18.4	-17.3	0.7	1.1
536301	2001	-121.0	-147.2	-147.5	-26.5	-0.3
536306	2012	-61.5	-66.2	-68.0	-6.5	-1.8
537101	2000	-81.8	-89.4	-89.5	-7.7	-0.1
537102	2001	-52.7	-60.5	-60.5	-7.8	0
537311	1980	-24.2	-27.6	-27.5	-3.3	0.1
537505	1975	-71.0	-64.2	-64.4	6.6	-0.2
538101	1956	-1.9	-7.5	-7.7	-5.8	-0.2
538115	2020	-138.8		-138.8	0	
538253	2002	-92.5	-99.3	-99.7	-7.2	-0.4
538312	2014	-60.6	-60.6	-59.8	0.8	0.8
538408	1979	-88.8	-105.3	-107.8	-19	-2.5
538421	2018	-102.5	-102.2	-102.8	-0.3	-0.6
538510	1979	-26.4	-40.6	-42.2	-15.8	-1.6
538511	1977	-28.0	-45.4	-47.0	-19	-1.6
538512	1977	-29.0	-52.1	-48.0	-19	4.1
538610	1978	-69.3	-71.3	-71.2	-1.9	0.1

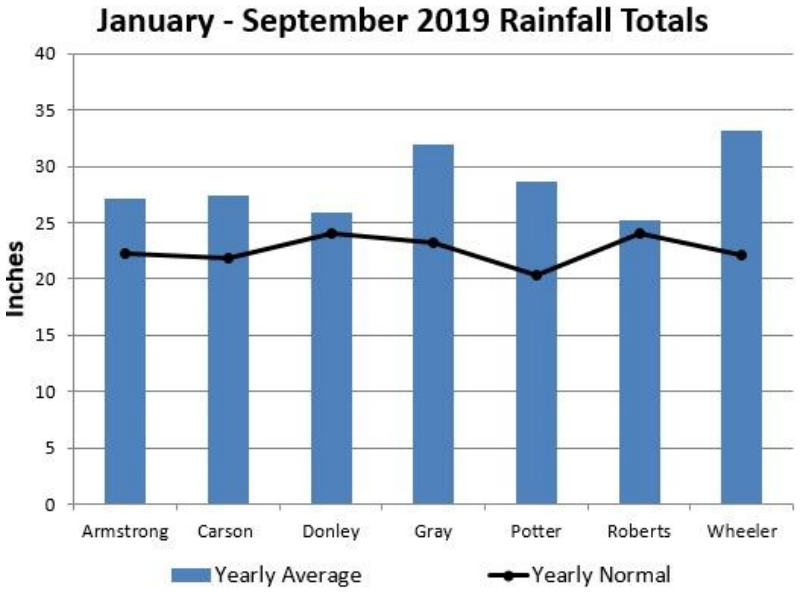
Wheeler County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
539110	2007	-75.5	-76.1	-76.7	-1.2	-0.6
539112	2011	-38.3	-40.9	-41.3	-3	-0.4
539408	1978	-5.4	-5.2	-5.8	-0.4	-0.6
539410	2011	-28.9	-29.1	-29.6	-0.7	-0.5
539504	1986	-62.0	-48.1	-46.0	16	2.1
539905	1977	-35.0	-42.4	-41.8	-6.8	0.6
540904	2017	-90.4	-91.4	-92.5	-2.1	-1.1
544305	1980	-87.4	-88.9	-89.0	-1.6	-0.1
544906	1974	-100.0	-111.0	-111.2	-11.2	-0.2
544910	2010	-91.5	-95.2	-95.3	-3.8	-0.1
545103	1979	-8.9	-6.8	-7.6	1.3	-0.8
545408	1980	-111.0	-110.2	-110.1	0.9	0.1
545505	1979	-109.5	-107.2	-107.7	1.8	-0.5
545907	1980	-53.0		-50.1	2.9	
552303	1980	-44.5	-48.0	-48.0	-3.5	0
552307	1980	-79.8	-79.1	-79.4	0.4	-0.3
553102	1979	-65.3	-73.9	-74.6	-9.3	-0.7
553205	2010	-29.5	-32.2	-32.5	-3	-0.3
553302	1999	-16.6	-28.5	-28.4	-11.8	0.1
553307	2011	-38.7	-41.3	-40.9	-2.2	0.4
553404	1999	-36.4	-11.0	-10.5	25.9	0.5
553406	2010	-7.8	-10.5	-10.6	-2.8	-0.1
553450	2001	-38.8	-43.1	-43.8	-5	-0.7
553507	2010	-37.9	-41.2	-41.0	-3.1	0.2

Precipitation Enhancement Update

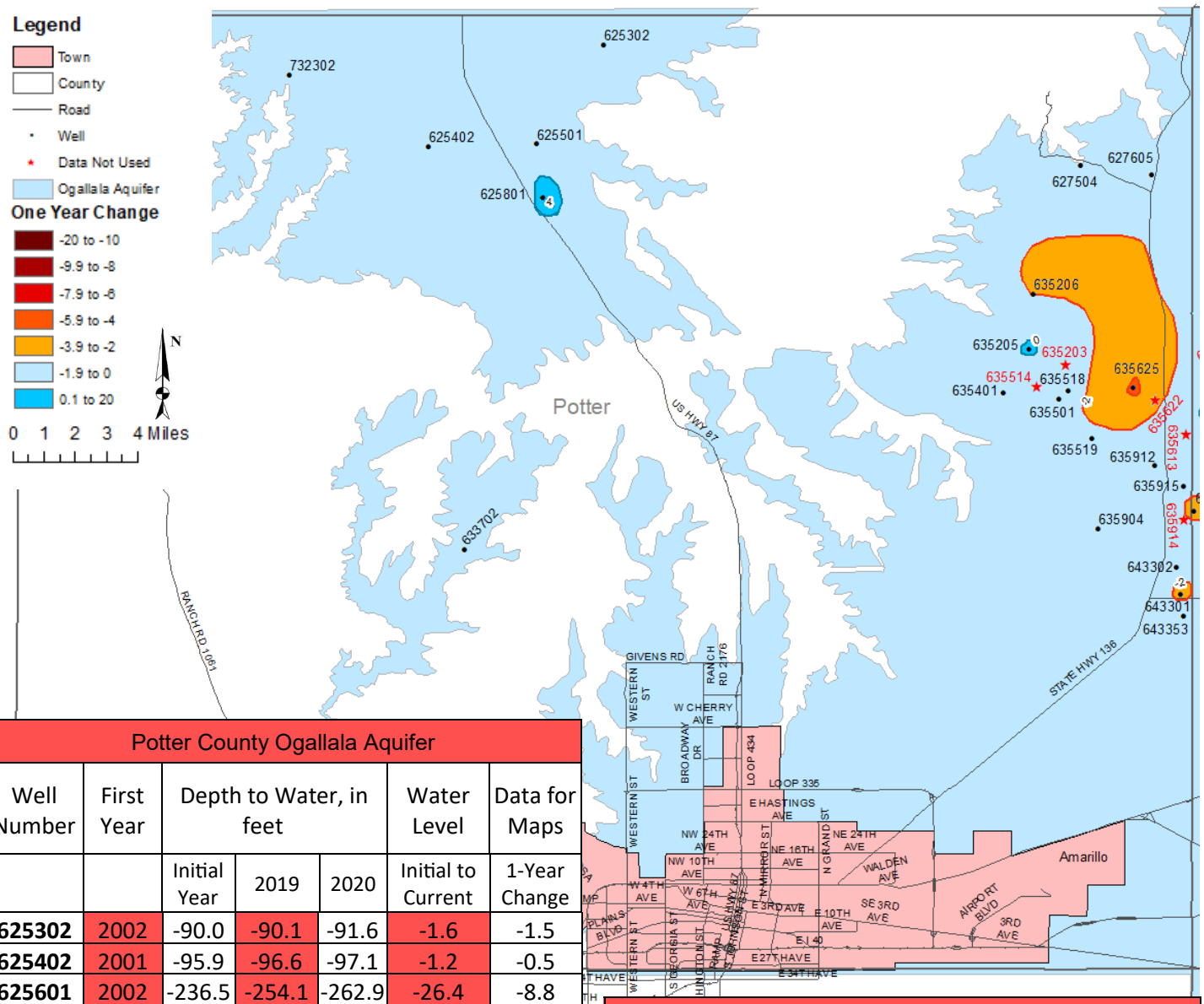
PGCD kicked off its twentieth year of the Precipitation Enhancement Program on April 1, 2020. So far for the 2020 season, there have been 6 operational days..

The recap of the 2019 Precipitation Enhancement Program shows it concluded with 11 total seeding days which was below the average of 22 days per season. The season ended with a total of 12 seeding flights and 16 reconnaissance flights

The 2019 year-end assessment done by Dr. Arquimedes Ruiz, Texas Tech University Professor and from Active Influence and Scientific Management, showed that on average the program produced an additional .55 inches of rainfall per acre. The cost of the 2019 program was $111,635.49. Factoring in the cost of the crops, plus the additional amount of rainfall produced the cost of the program was $0.028 per acre.



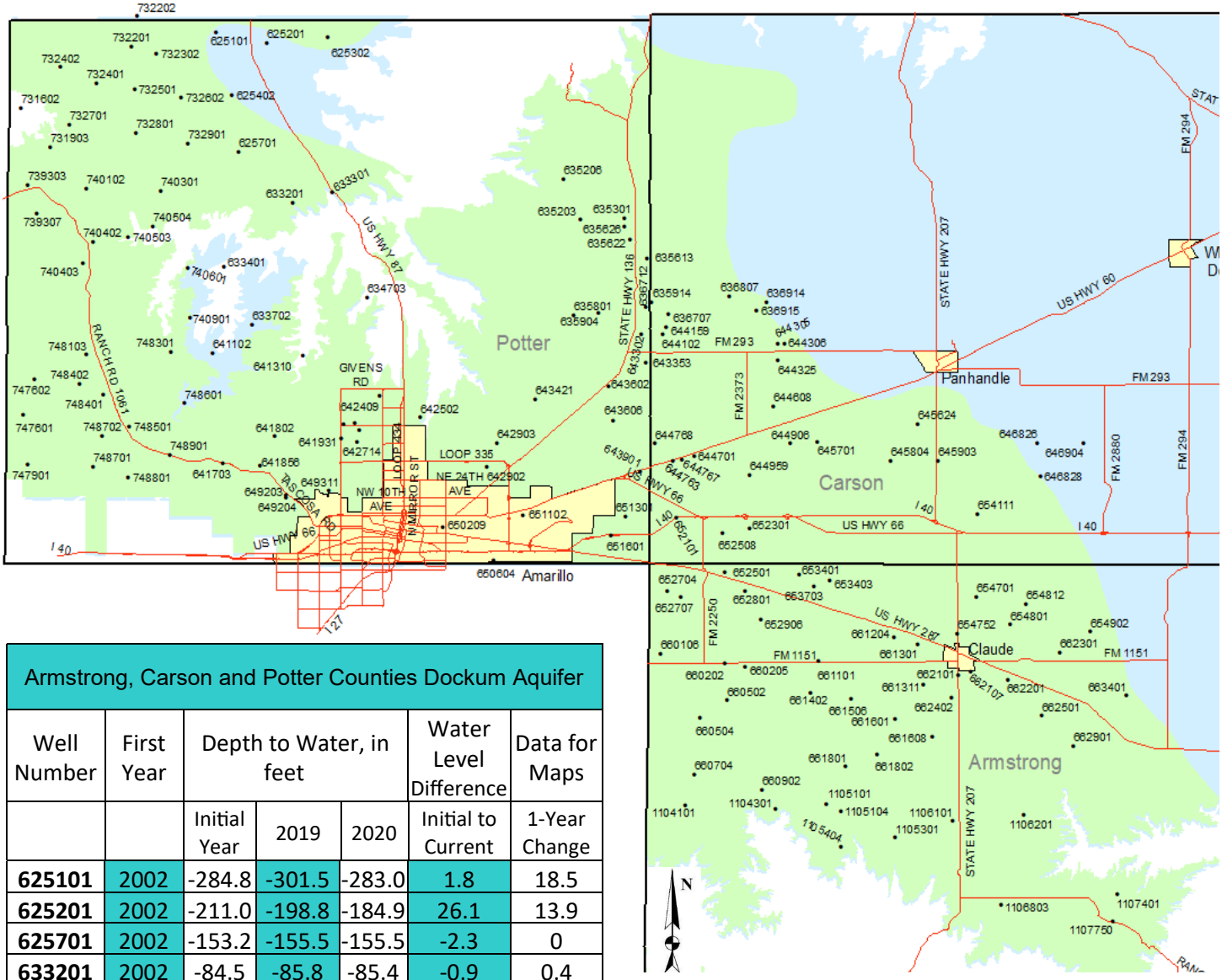
Potter County Ogallala Aquifer
1-Year Change



Potter County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
625302	2002	-90.0	-90.1	-91.6	-1.6	-1.5
625402	2001	-95.9	-96.6	-97.1	-1.2	-0.5
625601	2002	-236.5	-254.1	-262.9	-26.4	-8.8
625801	1980	-97.9	-88.0	-84.0	13.9	4
627605	2001	-121.7	-115.6	-117.2	4.5	-1.6
633702	2001	-109.2	-99.4	-100.1	9.1	-0.7
635203	2013	-294.0		-257.0	37	
635205	2013	-211.0	-209.6	-208.0	3	1.6
635206	2011	-224.2	-229.6	-231.6	-7.4	-2
635401	2001	-281.6	-293.9	-295.0	-13.4	-1.1
635501	1993	-307.6	-330.9	-332.3	-24.7	-1.4
635514	2013	-317.3		-310.0	7.3	
635518	2013	-335.0	-339.6	-340.0	-5	-0.4
635519	2011	-276.3	-288.6	-289.9	-13.6	-1.3
635613	2013	-569.5		-240.0	329.5	
635623	2011	-230.0	-248.9	-250.6	-20.6	-1.7
635624	2011	-232.5	-248.8	-254.8	-22.3	-6
635625	2011	-235.6	-253.5	-258.4	-22.8	-4.9

Potter County Ogallala Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
635904	1977	-219.5	-265.4	-265.7	-46.2	-0.3
635912	2006	-360.0	-357.8	-358.5	1.5	-0.7
635914	2013	-411.3		-402.0	9.3	
635915	2013	-412.4	-405.5	-407.0	5.4	-1.5
643301	1965	-414.1	-503.5	-507.0	-92.9	-3.5
643302	1966	-415.1	-496.3	-498.0	-82.9	-1.7
643353	2015	-438.5	-443.1	-444.8	-6.3	-1.7
732302	2002	-52.2	-145.4	-145.9	-93.7	-0.5

Armstrong, Carson and Potter Counties
DOCKUM Aquifer Well Locations



Armstrong, Carson and Potter Counties Dockum Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
625101	2002	-284.8	-301.5	-283.0	1.8	18.5
625201	2002	-211.0	-198.8	-184.9	26.1	13.9
625701	2002	-153.2	-155.5	-155.5	-2.3	0
633201	2002	-84.5	-85.8	-85.4	-0.9	0.4
633301	2001	-61.2	-70.4	-65.9	-4.7	4.5
633401	2001	-63.4	-65.9	-66.7	-3.3	-0.8
634703	2001	-87.2				
635301	1993	-293.8	-319.2	-322.0	-28.2	-2.8
635626	2013	-280.1	-413.3	-413.0	-132.9	0.3
635801	1981	-94.7	-131.0	-130.2	-35.5	0.8
641102	2001	-102.7	-98.3	-97.1	5.6	1.2
641310	2001	-37.2	-36.9	-35.2	2	1.7
641613	1980	-92.4	-102.7	-98.6	-6.2	4.1
641703	2001	-305.2	-301.7	-296.6	8.6	5.1
641802	2001	-85.6	-94.2	-91.1	-5.5	3.1
641856	2014	-142.9	-130.0	-129.0	13.9	1
641931	2003	-57.1	-64.4	-60.5	-3.4	3.9
642409	2003	-64.2	-72.7	-73.5	-9.3	-0.8
642427	2013	-159.9	-155.4	-153.2	6.7	2.2
642502	2001	-83.6	-79.9	-80.7	2.9	-0.8

Armstrong, Carson and Potter Counties Dockum Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
642714	2003	-77.5	-85.6	-82.4	-4.9	3.2
642719	2003	-126.2	-135.1	-139.3	-13.1	-4.2
642902	1986	-220.3	-227.7	-226.0	-5.7	1.7
642903	1981	-82.2	-222.2	-184.8	-102.6	37.4
643421	2005	-179.6	-178.3	-179.2	0.4	-0.9
643602	2001	-320.3	-317.3	-317.2	3.1	0.1

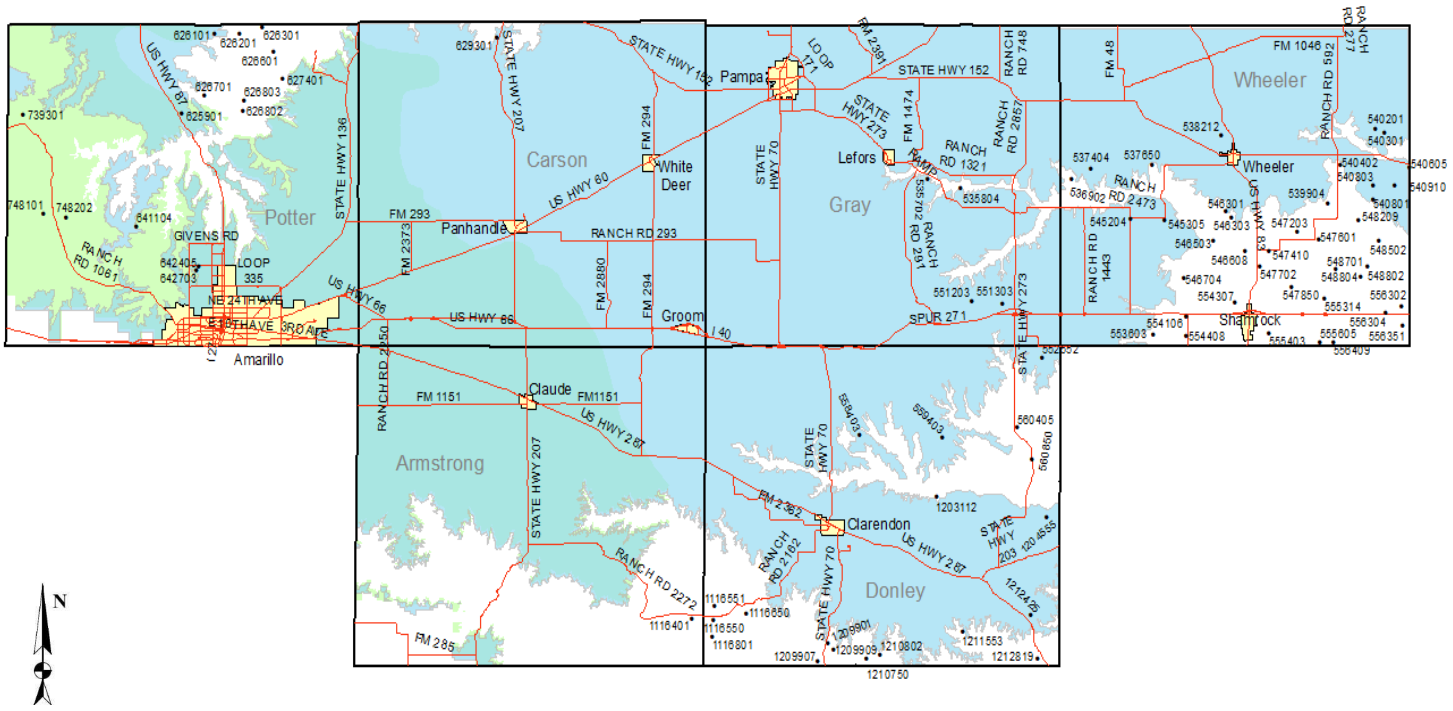
Dockum Wells Continued on Next Page

Armstrong, Carson and Potter Counties Dockum Aquifer Continued						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
643606	2004	-278.8	-264.1	-264.9	13.9	-0.8
643901	2001	-217.0	-203.0	-202.8	14.2	0.2
644608	1980	-369.9	-474.9	-476.3	-106.4	-1.4
644701	1980	-261.2	-246.9	-246.6	14.6	0.3
644763	2000	-233.1	-232.3	-232.4	0.7	-0.1
644767	2001	-264.7	-259.3	-258.2	6.5	1.1
644768	2002	-272.9	-263.8	-263.5	9.4	0.3
644906	2001	-348.9	-350.5	-350.1	-1.2	0.4
644959	2000	-221.5	-219.5	-219.3	2.2	0.2
645903	1999	-367.2	-413.6	-416.1	-48.9	-2.5
649203	2004	-112.0	-104.2	-106.3	5.7	-2.1
649204	2004	-130.5	-121.5	-125.9	4.6	-4.4
649311	2001	-51.5	-53.7	-51.9	-0.4	1.8
650209	2001	-235.6	-194.4	-193.1	42.5	1.3
650604	2001	-208.5	-195.6	-194.6	13.9	1
651102	2001	-177.9	-168.7	-168.3	9.6	0.4
651301	2001	-225.0	-207.1	-206.7	18.3	0.4
651601	2001	-196.8	-191.6	-191.1	5.7	0.5
652101	1982	-194.6	-192.6	-192.5	2.1	0.1
652301	1956	-192.7	-199.0	-199.0	-6.3	0
652501	1958	-188.4	-201.3	-201.2	-12.8	0.1
652508	1982	-200.7	-201.8	-201.7	-1	0.1
652704	2006	-170.9	-176.9	-177.0	-6.1	-0.1
652707	2002	-220.0	-226.2	-225.5	-5.5	0.7
652801	1958	-154.1	-176.2	-176.7	-22.6	-0.5
652906	1976	-106.8		-126.4	-19.6	
653401	2015	-166.1	-167.1	-167.3	-1.2	-0.2
653403	1975	-187.2	-181.3	-180.7	6.5	0.6
653703	1966	-191.0	-180.2	-179.5	11.5	0.7
654111	2012	-344.0	-343.6	-343.6	0.4	0
654701	1975	-260.3	-257.8	-252.2	8.1	5.6
654801	1958	-296.8	-291.7	-292.1	4.7	-0.4
654812	2015	-255.9	-255.4	-255.1	0.8	0.3
660106	1993	-214.4	-208.5	-208.2	6.2	0.3
660202	1992	-163.1	-167.1	-162.2	0.9	4.9
660205	2005	-163.1	-163.5	-163.3	-0.2	0.2
660502	1993	-154.5	-151.9	-151.7	2.8	0.2
660504	2017	-184.0	-185.6	-186.2	-2.2	-0.6
660704	2015	-191.0		-190.6	0.4	
660902	1975	-212.3	-212.6	-213.3	-1	-0.7

Armstrong, Carson and Potter Counties Dockum Aquifer Continued						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
661204	2000	-167.0	-164.5	-164.3	2.7	0.2
661301	1954	-154.9	-156.1	-156.4	-1.5	-0.3
661402	2011	-181.0	-186.4			
661506	2011	-156.7	-162.5	-162.7	-6	-0.2
661601	1975	-170.7	-171.8	-172.2	-1.5	-0.4
661608	1976	-165.8	-168.4	-166.9	-1.1	1.5
661801	1976	-165.7	-162.2	-162.2	3.5	0
661802	1980	-162.5	-156.7	-156.3	6.2	0.4
662101	1955	-170.9	-208.6	-205.9	-35	2.7
662107	2005	-175.0	-187.6	-184.5	-9.5	3.1
662301	1975	-230.0	-284.7	-284.9	-54.9	-0.2
662402	1999	-146.1	-151.1	-151.7	-5.6	-0.6
731602	2002	-191.7	-147.1	-147.9	43.8	-0.8
731903	2002	-20.8	-26.7	-24.6	-3.8	2.1
732201	2002	-160.1	-165.8	-164.4	-4.3	1.4
732202	2002	-65.5	-65.8	-64.5	1	1.3
732401	2002	-28.4	-31.1	-31.8	-3.4	-0.7
732402	2002	-17.5	-16.6	-16.3	1.2	0.3
732501	2001	-60.2	-60.9	-60.9	-0.7	0
732602	2002	-41.6	-38.1	-39.6	2	-1.5
732701	2002	-28.0	-30.2	-30.9	-2.9	-0.7
732801	2002	-132.5	-135.0	-136.7	-4.2	-1.7
732901	2002	-171.1	-172.4	-172.3	-1.2	0.1
739303	2015	-98.5	-94.4	-98.8	-0.3	-4.4
739307	2018	-228.7	-228.2	-227.7	1	0.5
740102	2002	-25.6	-26.0	-27.0	-1.4	-1
740301	2002	-164.8	-166.4	-166.7	-1.9	-0.3
740402	2001	-84.1	-86.9	-86.5	-2.4	0.4
740403	2002	-59.7	-59.6	-59.4	0.3	0.2
740503	2001	-30.4	-31.3	-30.7	-0.3	0.6
740504	2002	-26.0	-27.8	-27.1	-1.1	0.7
740601	2002	-70.6	-75.2	-73.9	-3.3	1.3
740901	2002	-132.0	-133.1	-131.4	0.6	1.7
747601	2002	-40.1	-40.8	-40.5	-0.4	0.3
747602	2002	-96.2	-77.3	-78.3	17.9	-1
747901	2002	-115.1	-117.2	-114.0	1.1	3.2
748103	2002	-42.4	-40.5	-40.6	1.8	-0.1
748301	2002	-78.0	-79.8	-67.0	11	12.8
748401	2002	-42.2	-45.9	-53.4	-11.2	-7.5
748402	2002	-25.0	-24.4	-24.0	1	0.4

Dockum Wells Continued on Next Page

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



Armstrong, Carson and Potter Counties Dockum Aquifer Continued						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
748501	2001	-44.0	-36.9	-32.9	11.1	4
748601	2002	-142.5	-134.7	-135.4	7.1	-0.7
748701	2002	-82.8	-82.5	-82.9	-0.1	-0.4
748702	2002	-42.2	-45.8	-48.9	-6.7	-3.1
748801	2001	-40.2	-43.6	-43.8	-3.6	-0.2
748901	2001	-96.0	-88.6	-75.6	20.4	13
1104101	1975	-197.8	-203.0	-204.8	-7	-1.8
1104301	1980	-319.9	-299.8	-300.0	19.9	-0.2
1105101	1975	-190.0	-183.1	-183.0	7	0.1
1105104	2004	-174.6	-173.8	-173.8	0.8	0
1105301	1980	-162.9	-157.1	-158.0	4.9	-0.9
1105404	2017	-227.8	-245.1	-227.4	0.4	17.7
1106101	1975	-179.6	-173.2	-173.3	6.3	-0.1
1106201	1976	-162.7	-160.1	-159.8	2.9	0.3
1106803	2017	-233.8		-261.0	-27.2	
1107401	1976	-122.8	-122.0	-122.6	0.2	-0.6
1107750	2005	-120.0	-122.8	-123.5	-3.5	-0.7

Armstrong, Carson, Donley, Gray, Potter and Wheeler Counties WHITEHORSE Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
535702	1974	-21.0	-22.8	-23.1	-2.1	-0.3
536902	2001	-28.6	-11.6	-11.6	17	0
537404	2019	-58.2	-58.2	-59.0	-0.8	-0.8
537650	1999	-7.0	-14.2	-12.6	-5.6	1.6
540201	1999	-7.3	-8.7	-7.2	0.1	1.5
540301	1999	-34.7	-38.8	-37.3	-2.6	1.5
540402	2001	-33.0	-41.2	-36.5	-3.5	4.7
540605	1999	-50.5	-43.7	-43.7	6.8	0
540801	2000	-20.2	-19.4	-17.6	2.6	1.8
540803	2000	-10.4	-6.1	-4.2	6.2	1.9
540910	1999	-17.2	-47.7	-47.5	-30.3	0.2
546301	1999	-7.5	-20.6	-19.6	-12.1	1
546303	1999	-8.9	-11.6	-10.3	-1.4	1.3
546704	1997	-98.1	-109.2	-	-8.5	2.6
547203	1956	-25.1	-32.9	-31.5	-6.4	1.4
547410	1999	-21.1	-25.9	-25.8	-4.7	0.1
547601	2000	-47.3	-54.9	-54.1	-6.8	0.8

Whitehorse Wells Continued on Next Page

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Armstrong, Carson, Donley, Gray, Potter and Wheeler Counties WHITEHORSE Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
548209	2019	-34.8	-34.8	-32.4	2.4	2.4
548502	1999	-31.1	-38.5	-34.8	-3.7	3.7
552552	2002	-95.6	-100.2	-100.7	-5.1	-0.5
554106	1966	-60.0	-60.2	-58.9	1.1	1.3
554408	1999	-85.0	-88.5	-89.2	-4.2	-0.7
558403	1999	-177.0	-128.3	-129.5	47.5	-1.2
559403	1977	-73.0	-77.3	-77.4	-4.4	-0.1
560405	1992	-45.6	-44.0			
560850	2000	-117.3		-106.0	11.3	
626101	2002	-30.4	-32.4	-31.3	-0.9	1.1
626201	2002	-107.0	-97.7	-126.8	-19.8	-29.1
626701	2002	-36.9	-39.8	-40.4	-3.5	-0.6
626802	2002	-44.2	-45.3	-47.2	-3	-1.9
626803	2002	-32.7	-42.2	-41.0	-8.3	1.2
629301	1977	-180.1	-181.0	-183.3	-3.2	-2.3
1116401	2001	-72.1	-64.7	-65.0	7.1	-0.3
1116550	2001	-121.4	-118.8	-121.7	-0.3	-2.9
1116551	2001	-131.9	-142.3	-135.2	-3.3	7.1

Armstrong, Carson, Donley, Gray, Potter and Wheeler Counties WHITEHORSE Aquifer						
Well Number	First Year	Depth to Water, in feet			Water Level Difference	Data for Maps
		Initial Year	2019	2020	Initial to Current	1-Year Change
1116650	2001	-5.5	-9.3	-9.3	-3.8	0
1116801	2001	-46.5	-47.4	-48.6	-2.1	-1.2
1204555	2001	-2.0				
1209901	1993	-46.0	-59.5	-62.5	-16.5	-3
1209907	2008	-32.3	-29.5	-30.5	1.8	-1
1209909	2001	-50.5	-154.9	-	-102.6	1.8
1210750	2003	-70.4	-63.0	-55.1	15.3	7.9
1210802	2001	-93.4	-130.3	-	-43.4	-6.5
1211553	2001	-22.3	-23.1	-23.6	-1.3	-0.5
1212425	2009	-31.0	-35.7	-37.1	-6.1	-1.4
1212819	2011	-27.6	-33.3	-34.1	-6.5	-0.8
1218101	2012	-30.0	-23.9	-28.0	2	-4.1