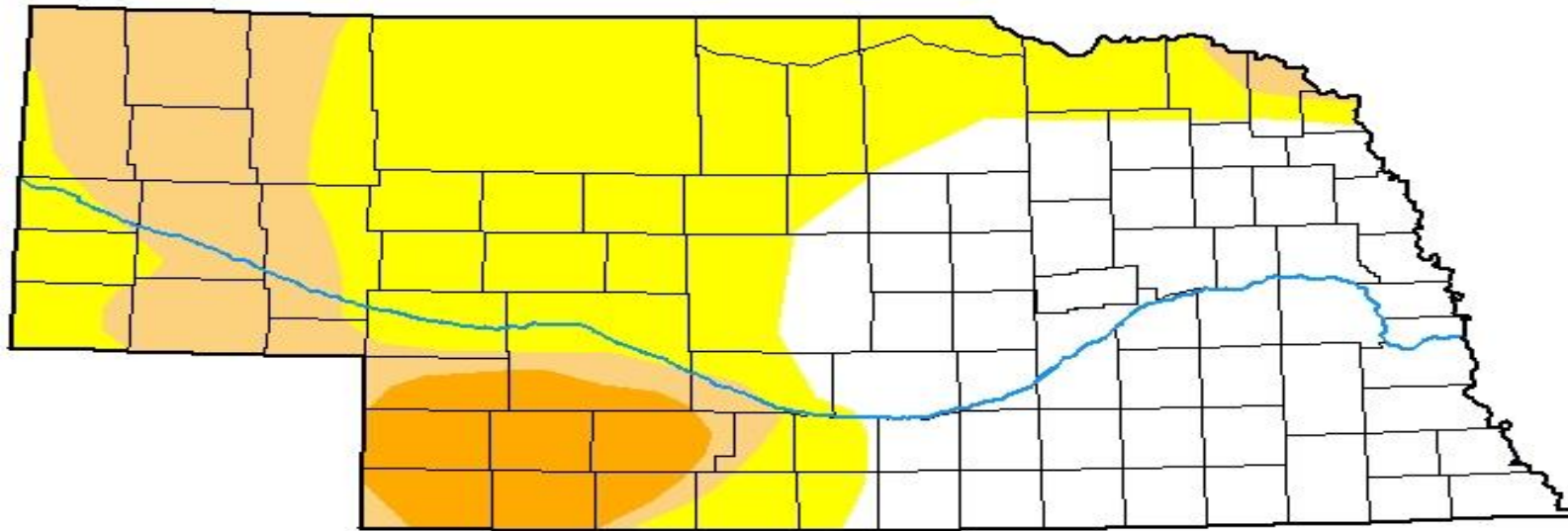


U.S. Drought Monitor Nebraska

March 30, 2021
(Released Thursday, Apr. 1, 2021)
Valid 8 a.m. EDT



Intensity:

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

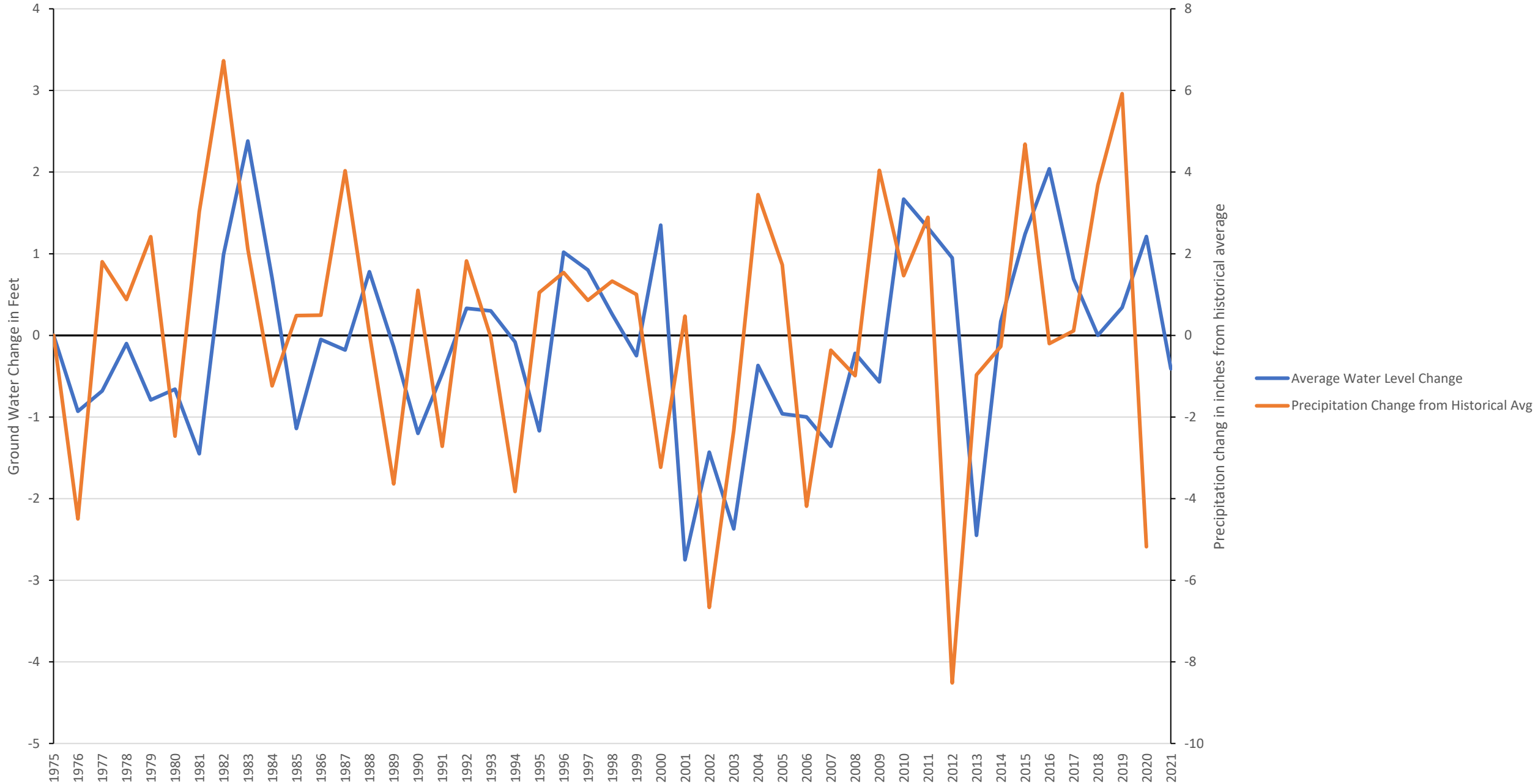
Author:

Brad Pugh
CPC/NOAA



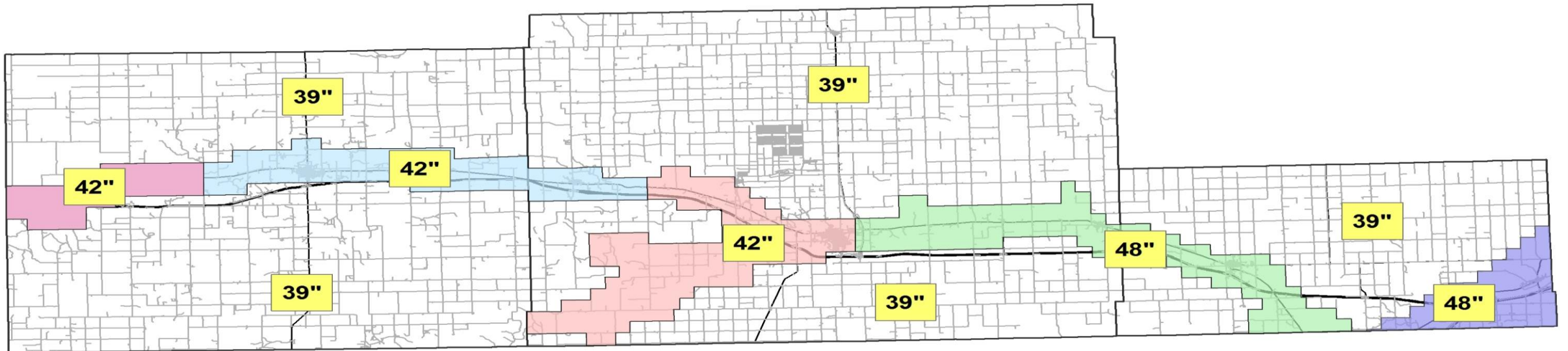
droughtmonitor.unl.edu

Groundwater and Precipitation Accumulation Changes 1975-2021









South Platte Natural Resources District

Allocation Subareas & Allocations (Acre-inches) for the
2019 through 2021 Allocation Period



Legend

- | | |
|--|---|
|  A - Wyoming State Line to Oliver Reservoir (RD 27) |  D - Sidney to Colorado State Line |
|  B - Oliver Reservoir to Buffalo Bend (RD 87) |  E - South Platte Valley |
|  C - Buffalo Bend to Sidney (RD 115) |  F - Tablelands |










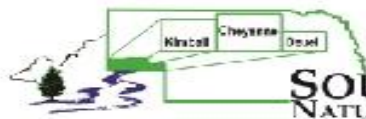
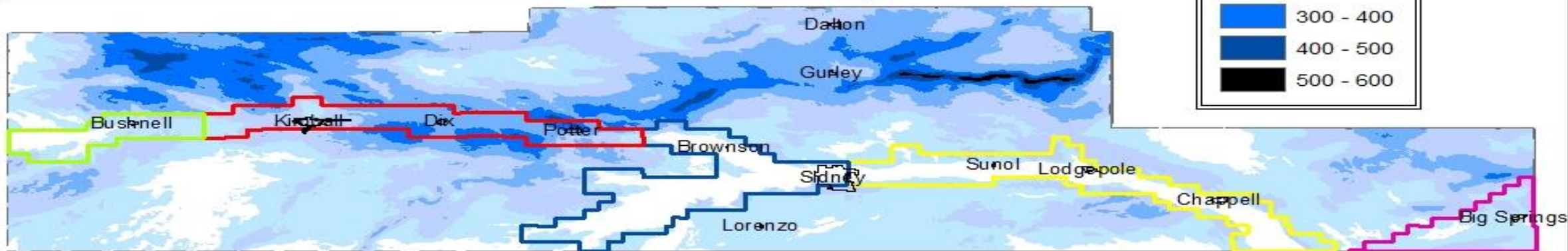
Saturated Thickness Ogallala Aquifer

Subareas

- | | |
|--|---|
|  Pine Bluffs to Oliver Reservoir |  Sidney to Colorado |
|  Oliver Reservoir to Buffalo Bend |  South Platte Valley |
|  Buffalo Bend to Sidney | |

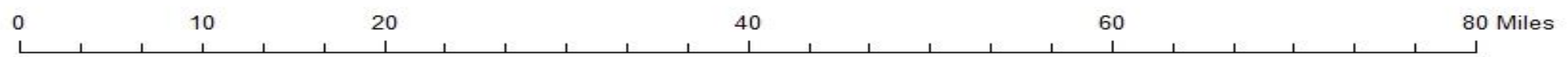
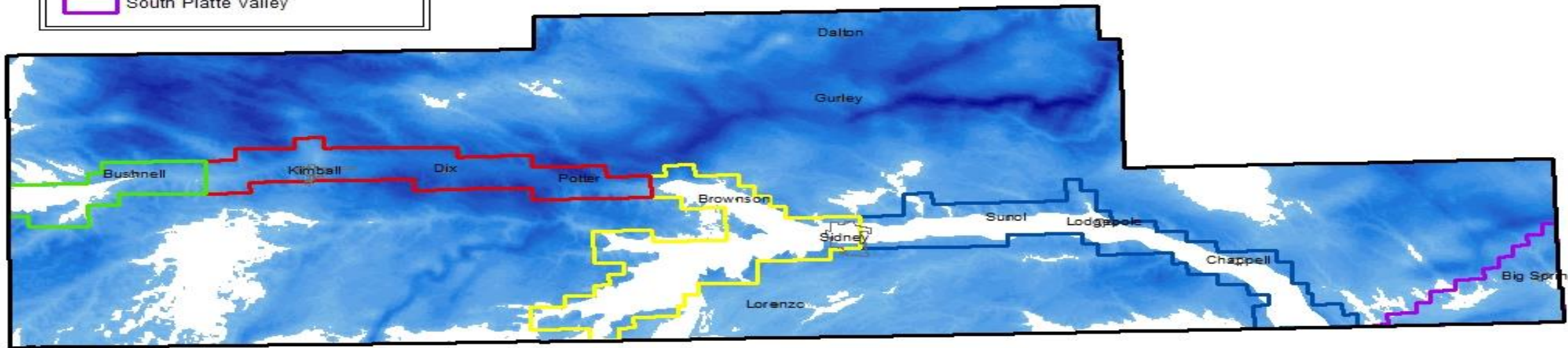
Feet

- | | |
|---|-----------|
|  | 0 |
|  | 0 - 100 |
|  | 100 - 200 |
|  | 200 - 300 |
|  | 300 - 400 |
|  | 400 - 500 |
|  | 500 - 600 |

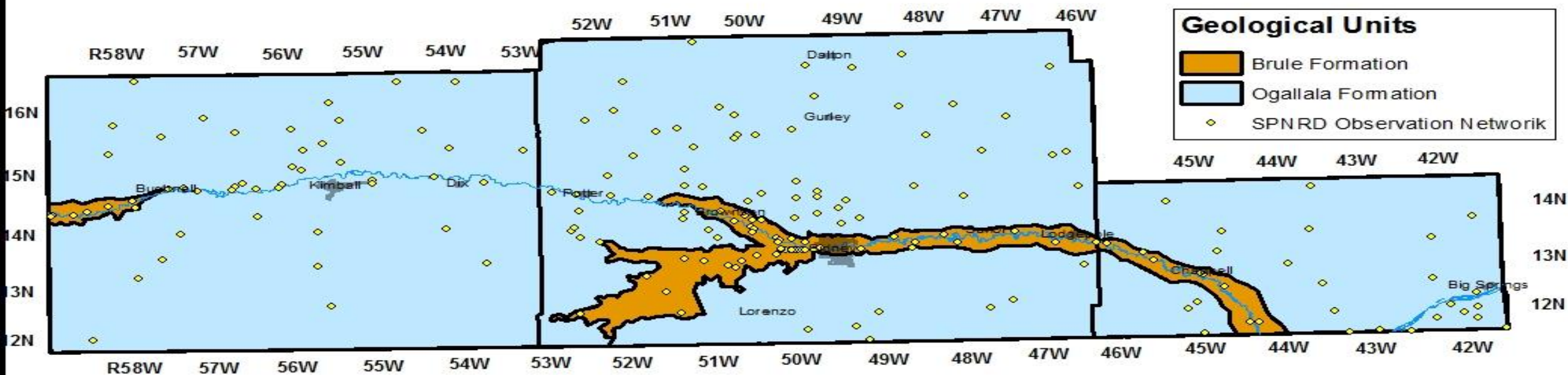


SOUTH PLATTE
NATURAL RESOURCES DISTRICT

Saturated Thickness Ogallala Aquifer Without Depth Breaks

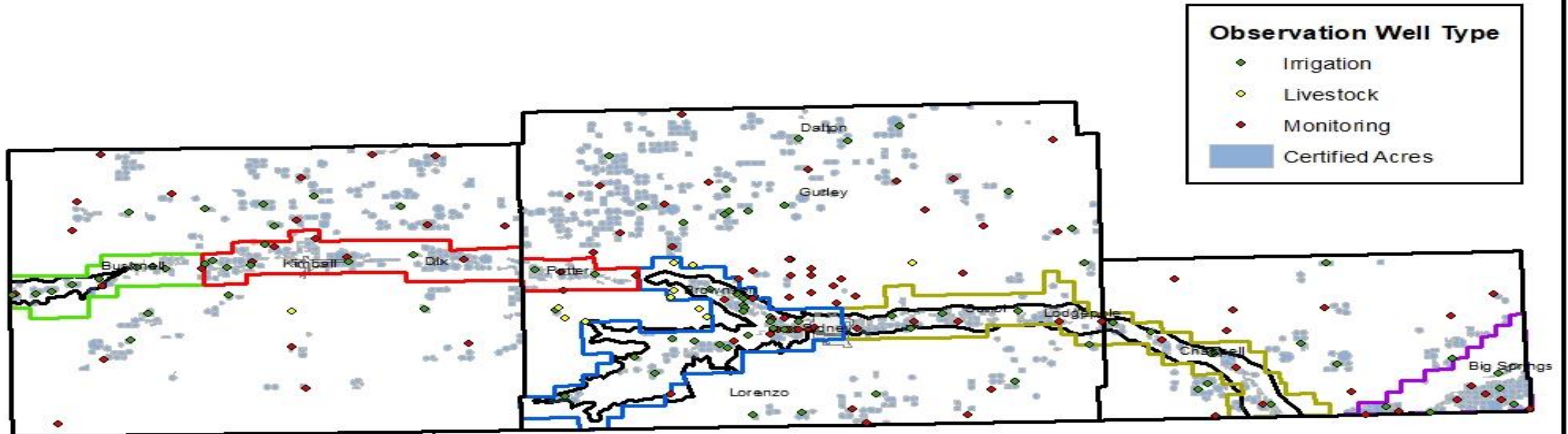


SPNRD Geological Breakdowns

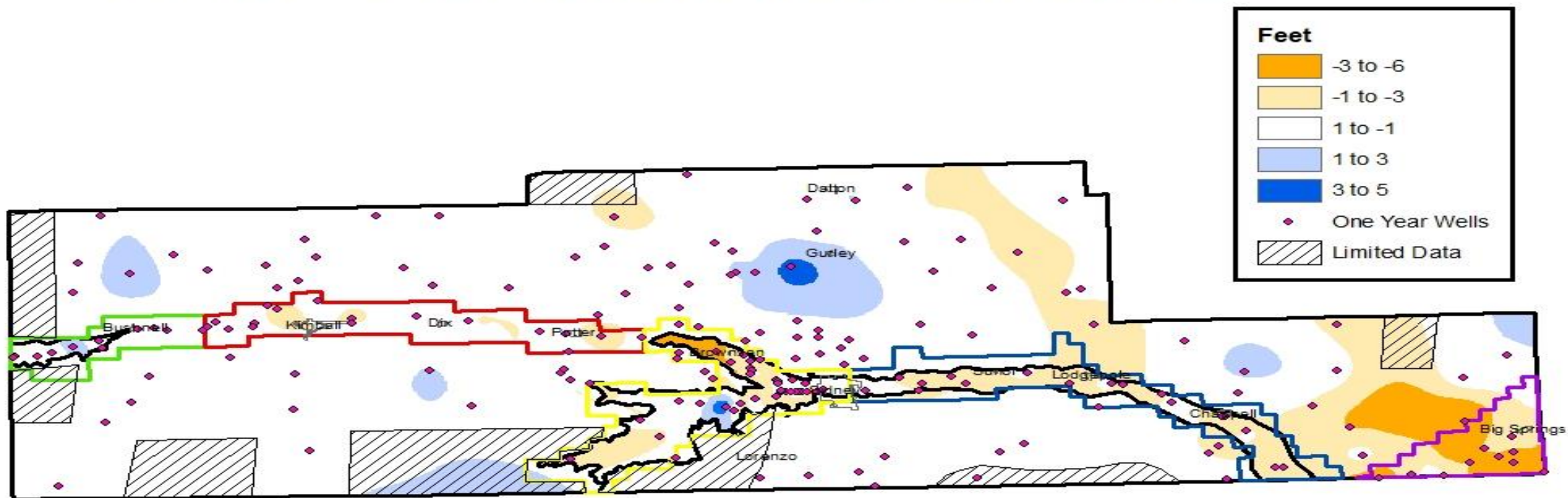


All wells located within each geological unit are only influenced by wells within each sole unit. That is, wells located in the southern ogallala unit are only influenced by the wells located there. It does not "share" water, nor is it influenced with wells in the Brule Formation. As of this time, the SPNRD has determined there is no hydrologic connectivity between the brule and ogallala formations, respectively. All maps have been created in this manner. The geological units described above are derived from the Platte River Cooperative Hydrology Study (COHYST).

SPNRD Observation Well Network



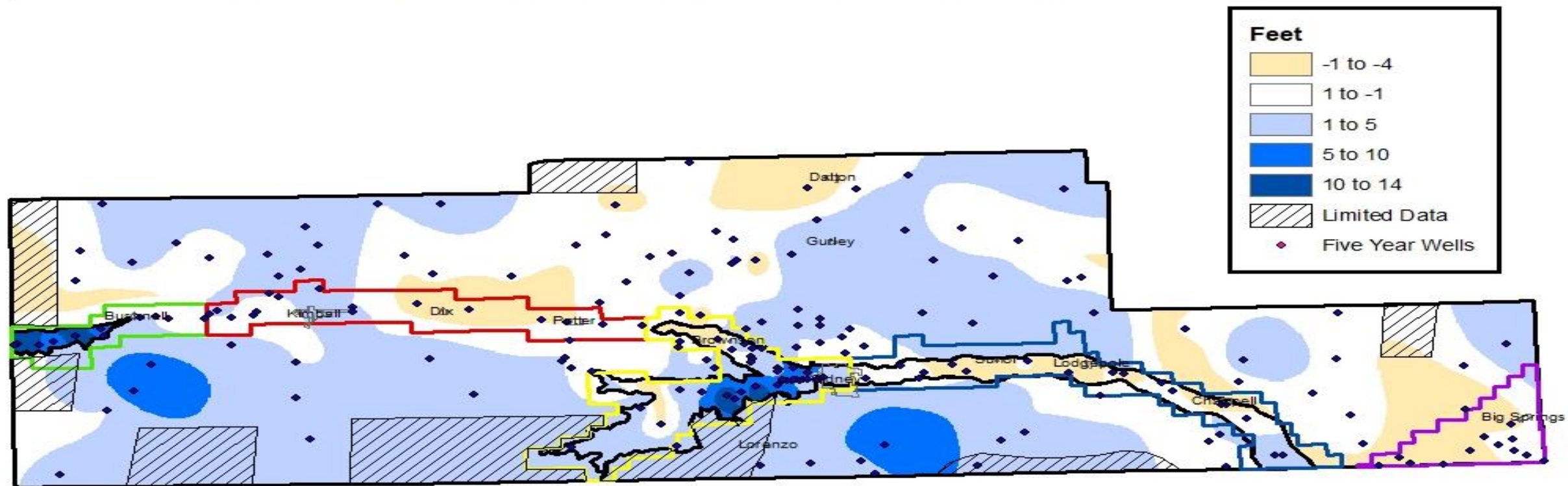
SPNRD 1 Year Water Level Differences



South Platte NRD 1 Year Stats by Subarea

Subarea	Ave.	Max	Min	Count	Decline	%Decline
Pine Bluffs to Oliver	-0.1	1.54	-1.08	12	10	83%
Oliver to Buffalo Bend	-0.49	0.79	-1.79	19	14	74%
Buffalo Bend to Sidney	-0.59	4.7	-3.75	40	31	78%
Sidney to Colorado	-1.42	0.1	-2.8	17	16	94%
South Platte Valley	-3.07	-0.42	-5.58	11	11	100%
Fully Appropriated	0.08	3.6	-3.06	106	43	41%
Districtwide	-0.41	4.7	-5.58	205	125	61%

SPNRD 5 Year Water Level Differences

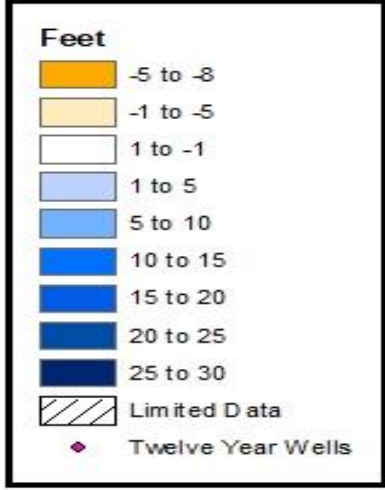
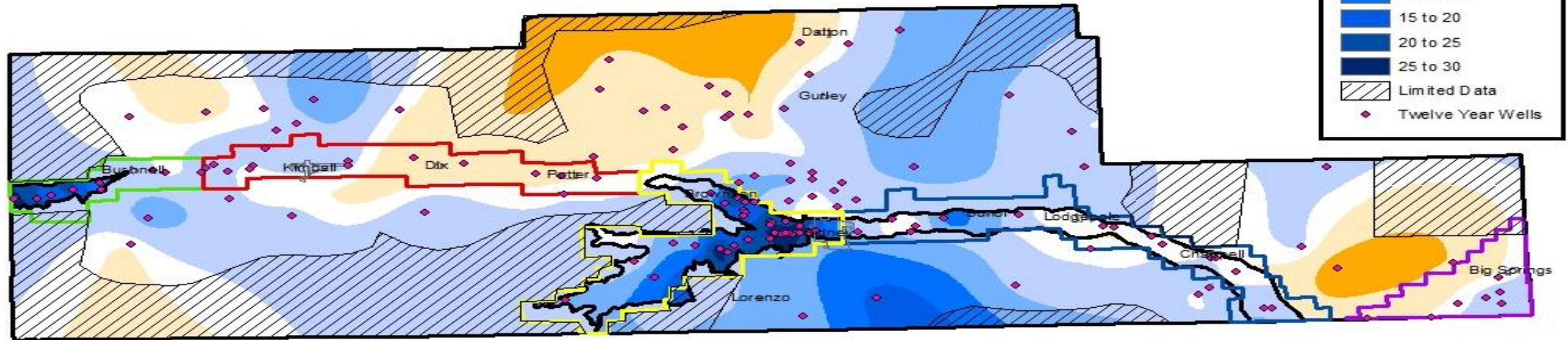


South Platte NRD 5 Year Stats by Subarea

Subarea	Ave.	Max	Min	Count	Decline	%Decline
Pine Bluffs to Oliver	7.64	13.51	-0.83	11	1	9%
Oliver to Buffalo Bend	0.35	2.86	-2.13	19	7	37%
Buffalo Bend to Sidney	4.18	13.53	-3.39	40	3	8%
Sidney to Colorado	-0.73	3.47	-3.17	17	14	82%
South Platte Valley	-1.25	0.52	-2.79	11	10	91%
Fully Appropriated	1.29	8.86	-3.56	103	23	22%
Districtwide	1.81	13.53	-3.56	201	58	29%

SPNRD 12 Year Water Level Differences

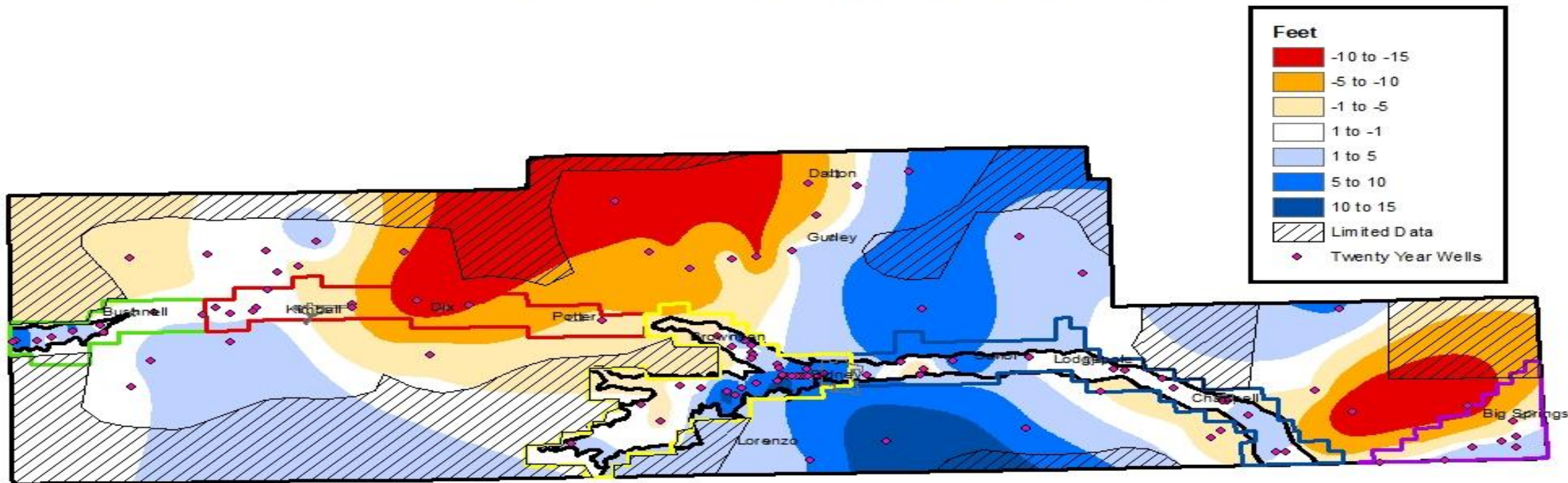
*2009 WAS THE FIRST YEAR ALL SUBAREAS WERE UNDER AN ALLOCATION



South Platte NRD 11 Year Stats by Subarea

Subarea	Ave.	Max	Min	Count	Decline	%Decline
Pine Bluffs to Oliver	15.4	29.75	0.65	11	0	0%
Oliver to Buffalo Bend	0.53	4.39	-3.45	14	5	36%
Buffalo Bend to Sidney	20.61	29.38	1.16	36	0	0%
Sidney to Colorado	1.97	10.72	-0.29	15	3	20%
South Platte Valley	0.03	2.73	-4.6	8	4	50%
Fully Appropriated	1.63	16.04	-7.59	61	18	30%
Districtwide	7.22	29.75	-7.59	145	30	21%

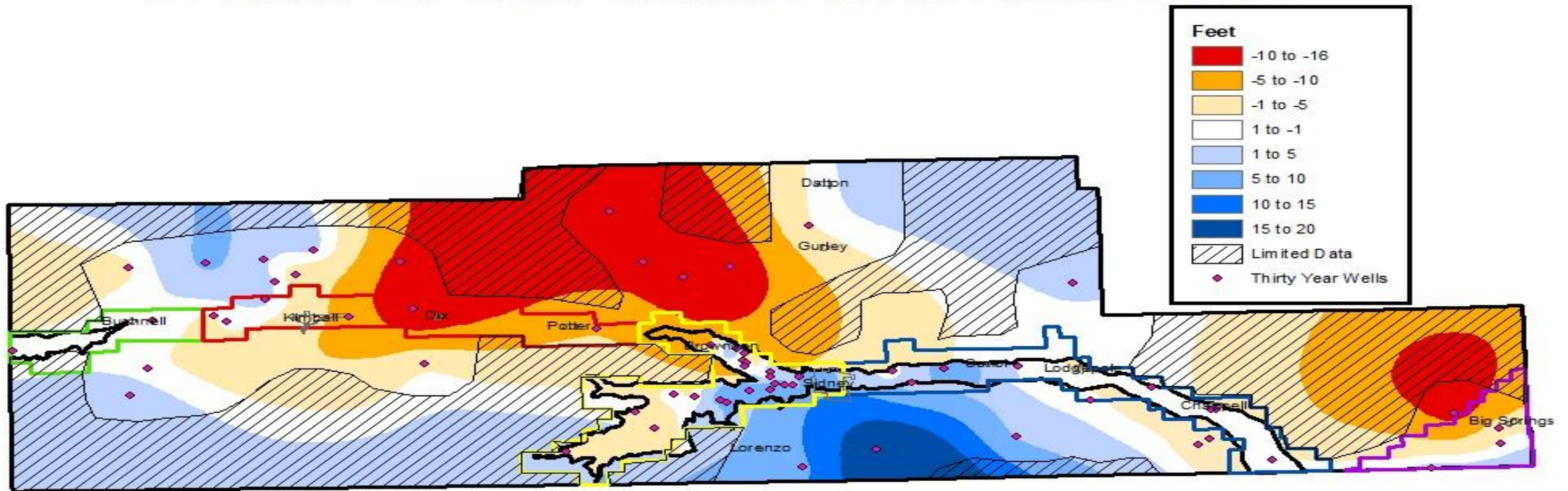
SPNRD 20 Year Water Level Differences



South Platte NRD 20 Year Stats by Subarea

Subarea	Ave.	Max	Min	Count	Decline	%Decline
Pine Bluffs to Oliver	3.61	9.26	-0.95	10	1	10%
Oliver to Buffalo Bend	-3.6	0.5	-12.22	10	7	70%
Buffalo Bend to Sidney	5.34	11.99	-3.01	31	4	13%
Sidney to Colorado	1.02	7.14	-2.44	15	4	27%
South Platte Valley	-1.08	2.66	-13.75	8	3	38%
Fully Appropriated	-1.07	14.65	-14.37	33	13	39%
Districtwide	1.28	14.65	-14.37	107	32	30%

SPNRD 30 Year Water Level Differences

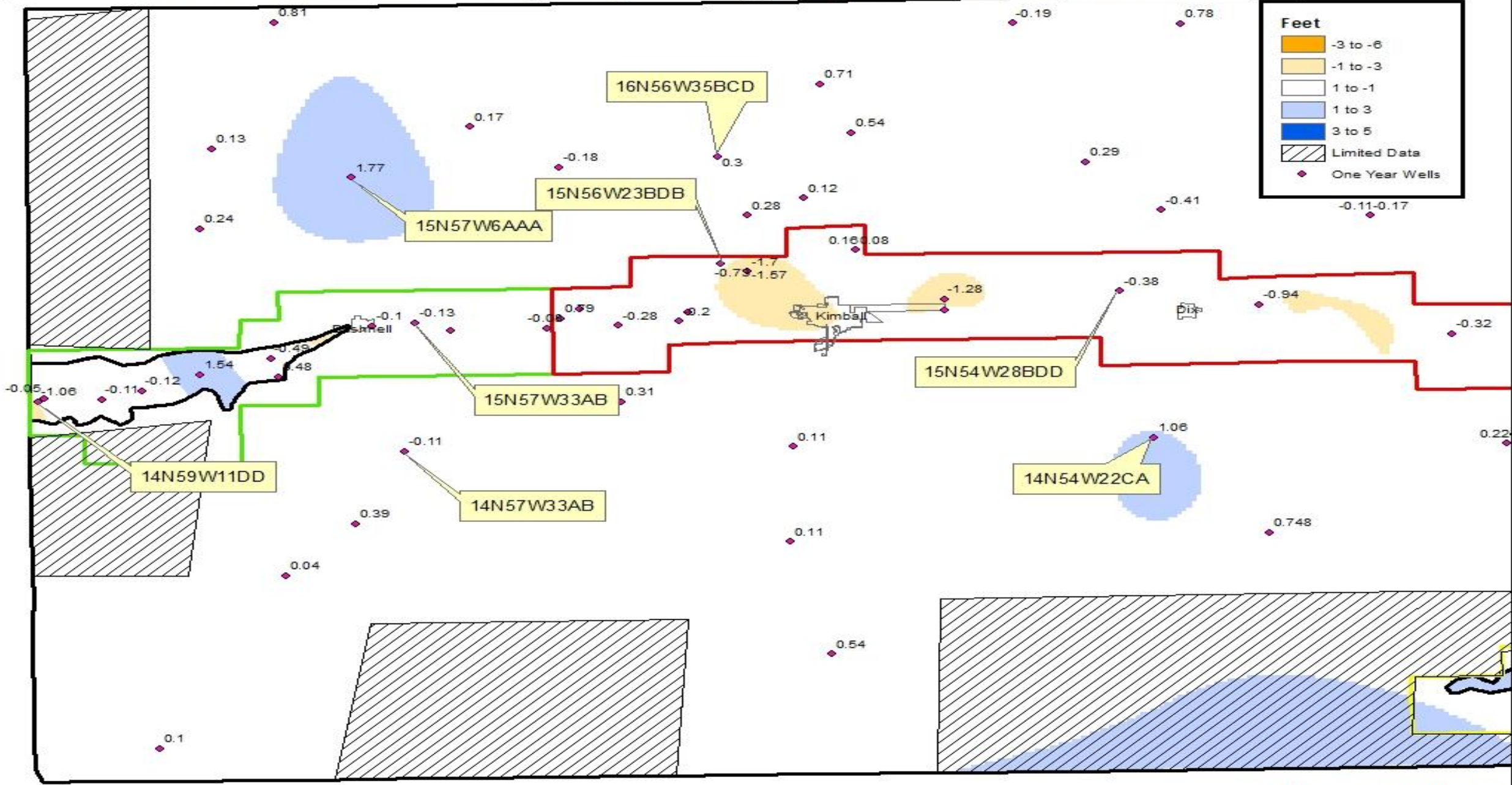


South Platte NRD 30 Year Stats by Subarea

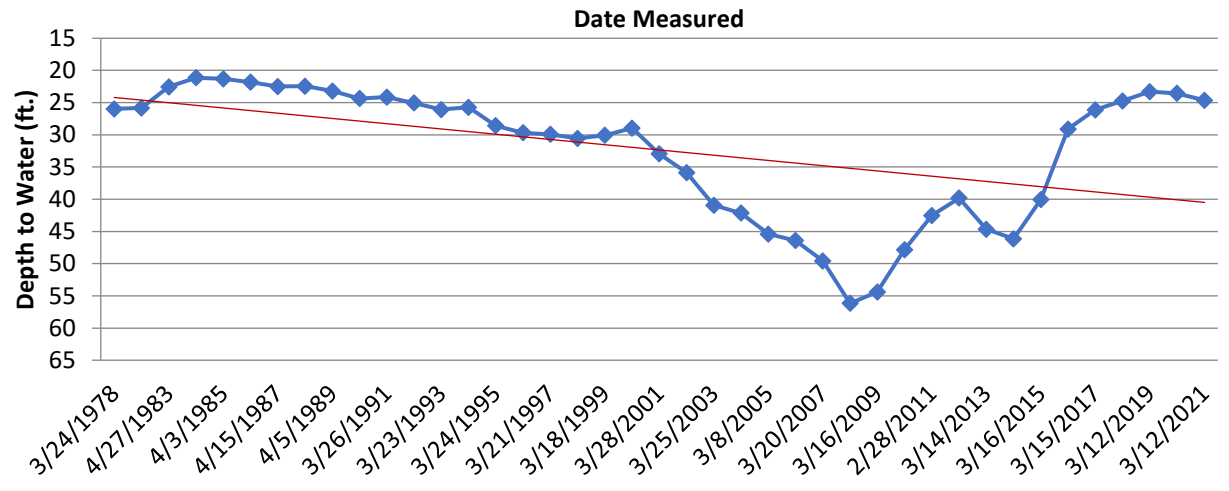
Subarea	Ave.	Max	Min	Count	Decline	%Decline
Pine Bluffs to Oliver	0.01	0.52	-0.5	2	1	50%
Oliver to Buffalo Bend	-4.43	1.59	-14.57	6	5	83%
Buffalo Bend to Sidney	2.12	8.34	-4.64	21	9	43%
Sidney to Colorado	1.38	6.88	-0.45	8	1	13%
South Platte Valley	-3.2	1.97	-11.97	4	3	75%
Fully Appropriated	-1.43	19.8	-15.77	22	13	60%
Districtwide	-0.24	19.8	-15.77	63	32	51%



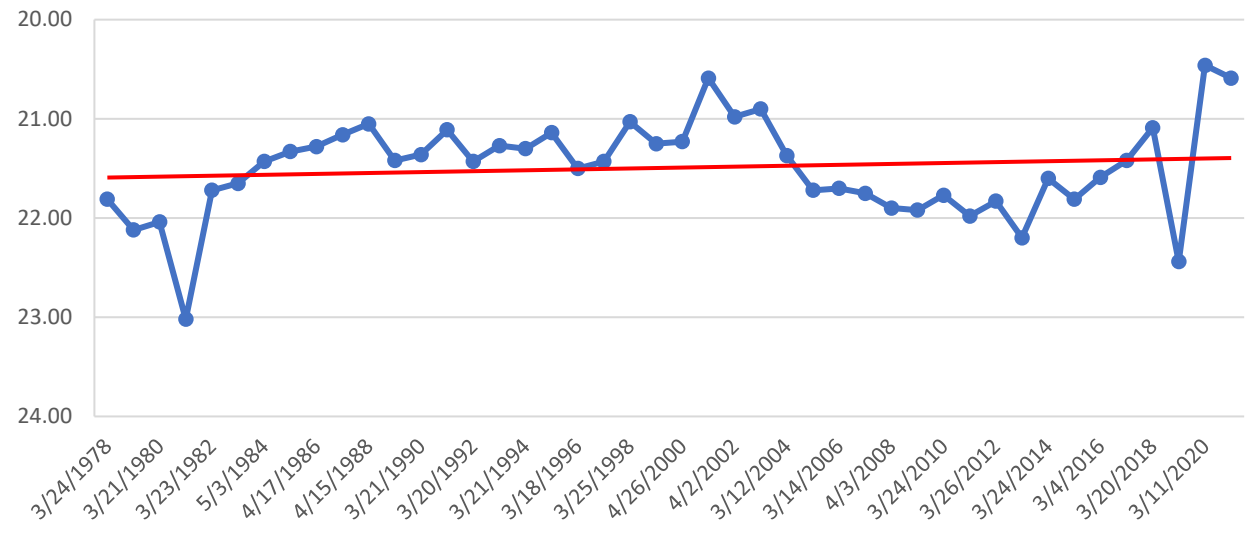
Kimball County Hydrograph Locations



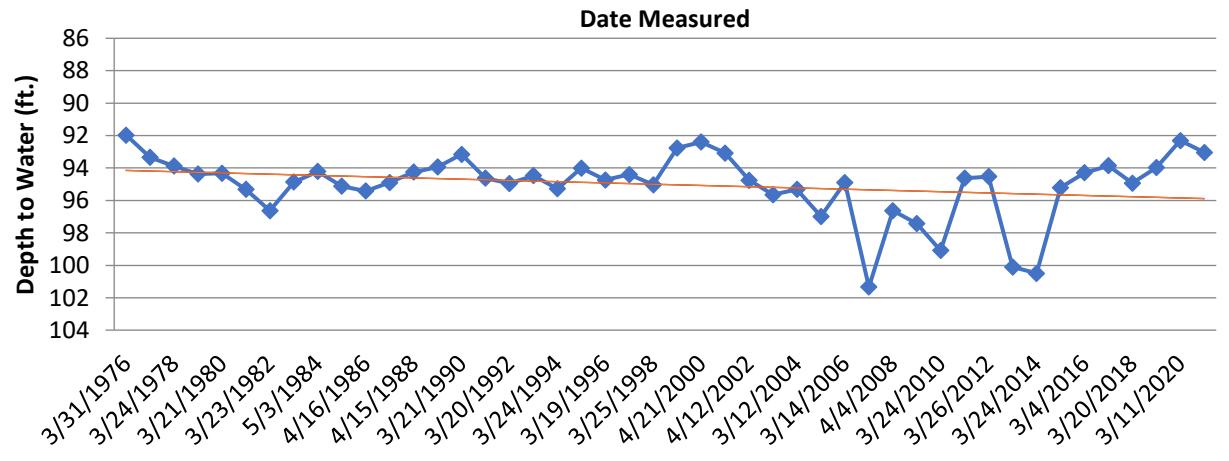
14N 59W 11DD
NE/WY Stateline 1 East of Pine Bluffs
Brule Formation
Pine Bluffs to Oliver Reservoir Subarea



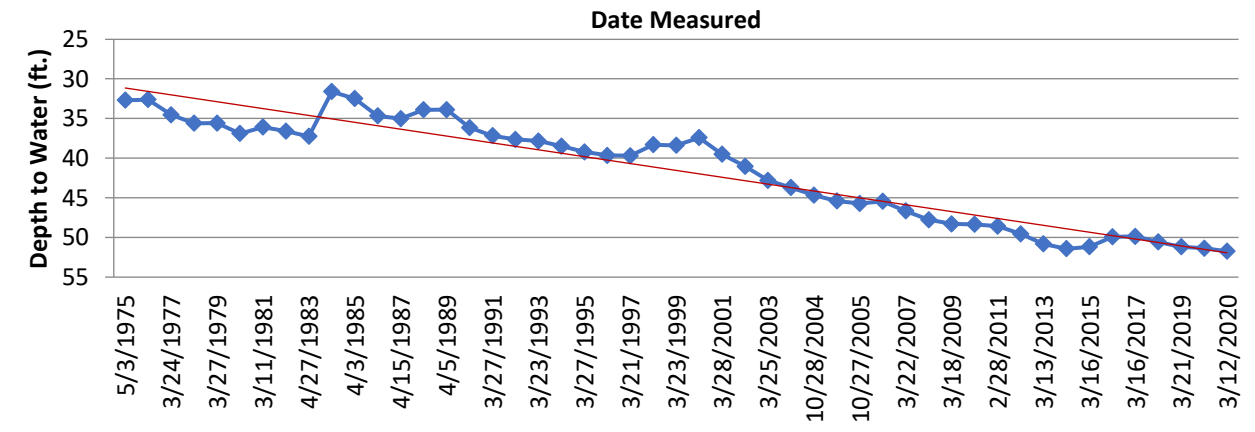
15N 57W 33AB
1 East of Bushnell
Ogallala Formation
Pine Bluffs to Oliver Reservoir Subarea



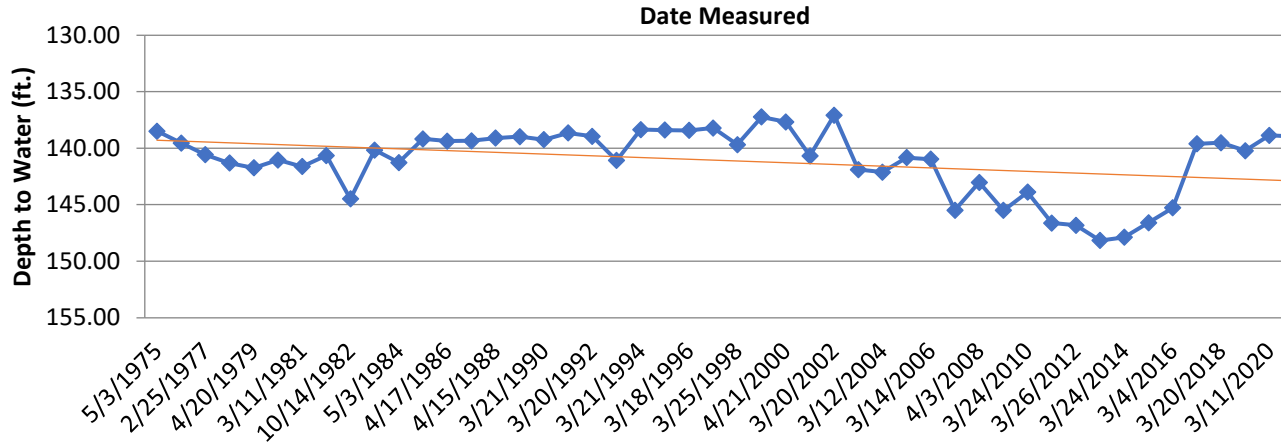
15N 56W 23BDB
3 West 2 North of Kimball
Ogallala Formation
Oliver Reservoir to Buffalo Bend Subarea



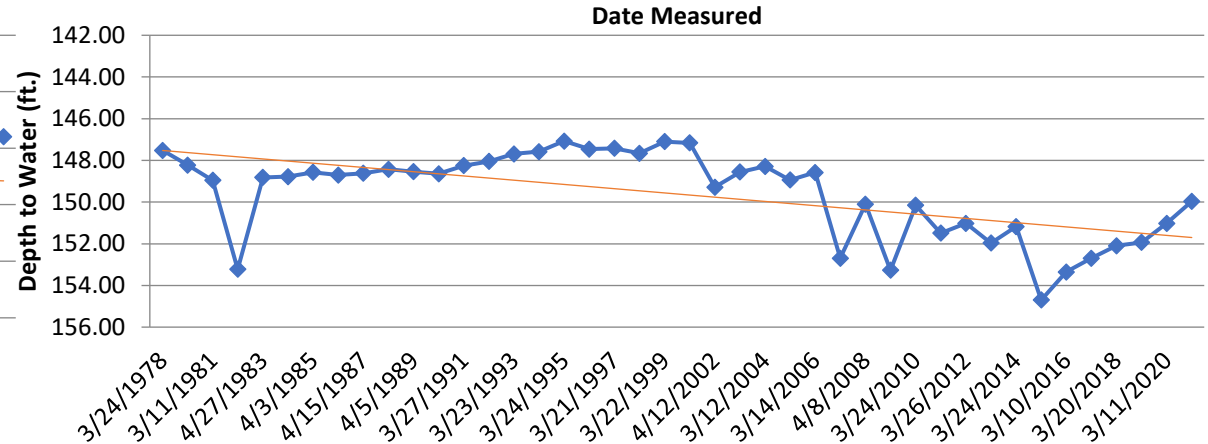
15N 54W 28BDD
1.5 West of Dix
Ogallala Formation
Oliver Reservoir to Buffalo Bend Subarea



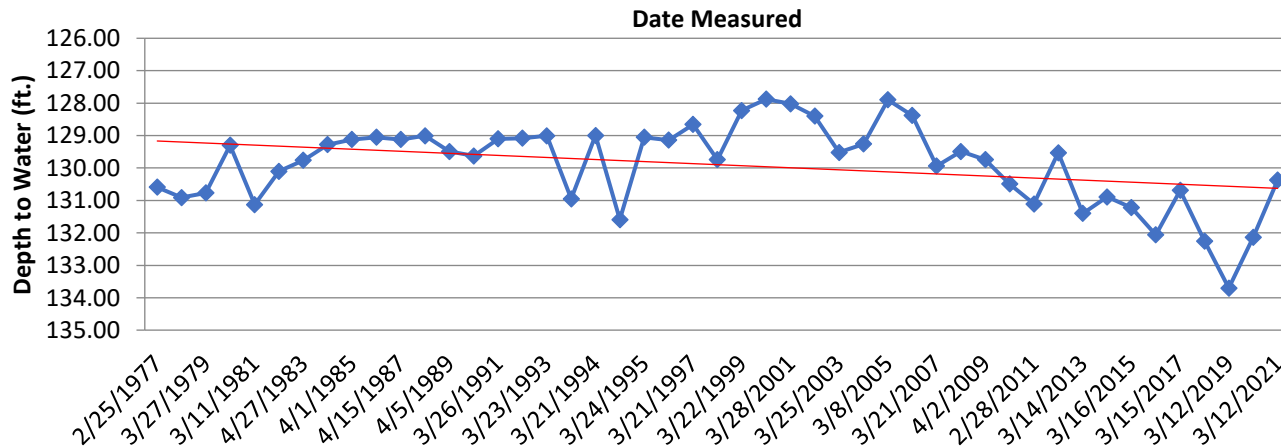
14N 57W 21CCA
5 South 1 East of Bushnell
Ogallala Formation (South Table)
Fully Appropriated Subarea



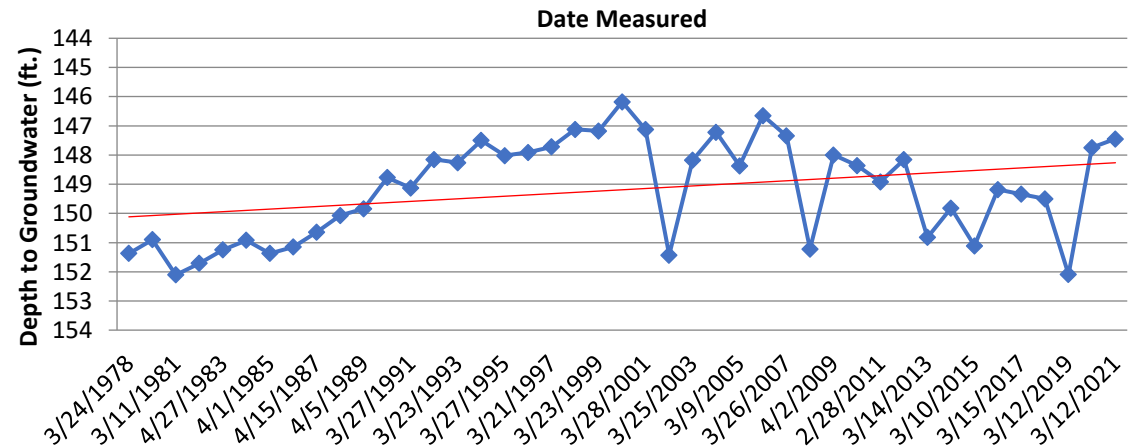
14N 54W 22CA
4 South 1 West of Dix
Ogallala Formation (South Table)
Fully Appropriated Subarea



15N 57W 6AAA
5 North of Bushnell
Ogallala Formation (North Table)
Fully Appropriated Subarea



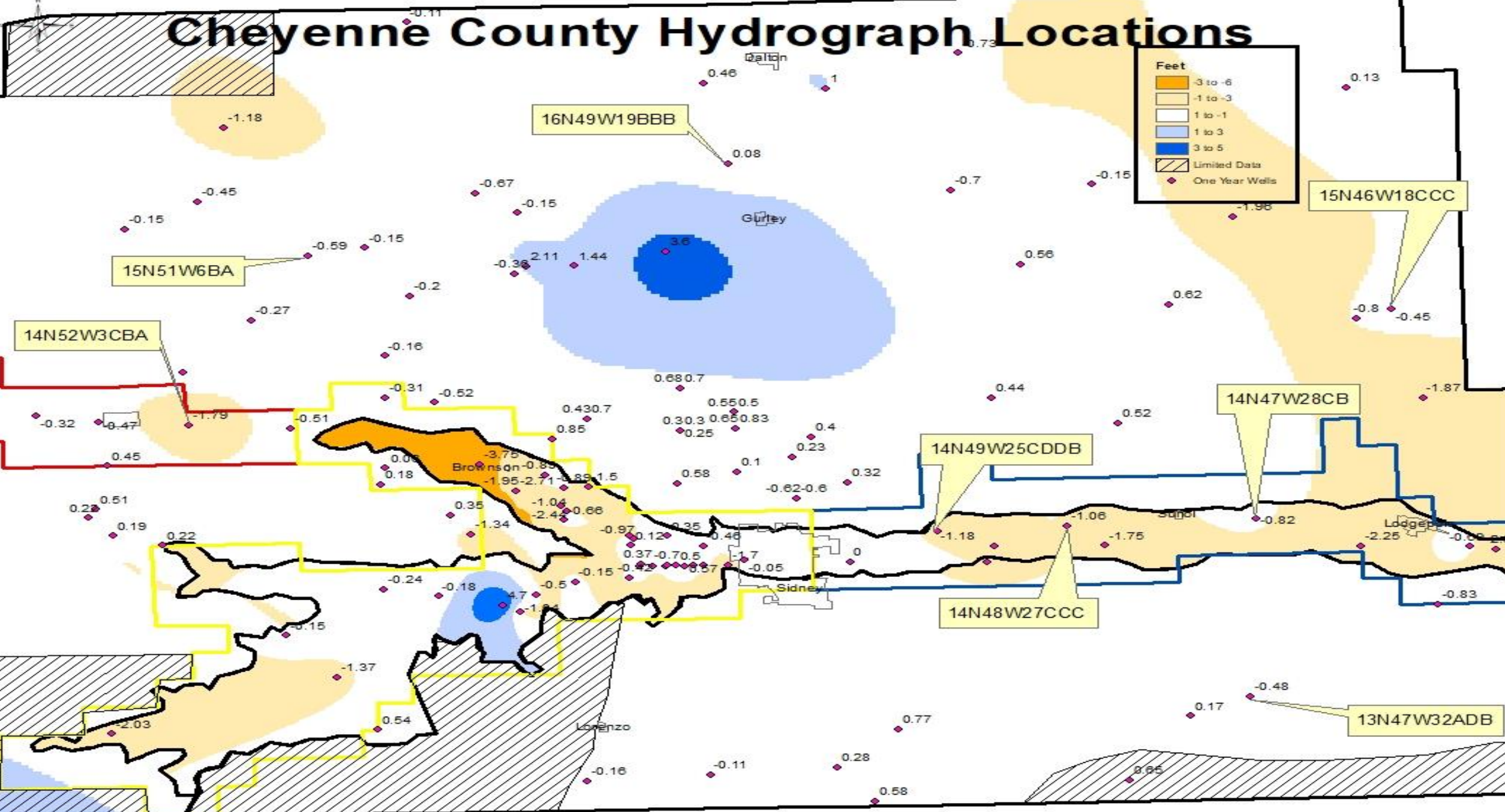
16N 56W35BCD
6 North 3 West of Kimball
Ogallala Formation
Fully Appropriated Subarea (North Table)



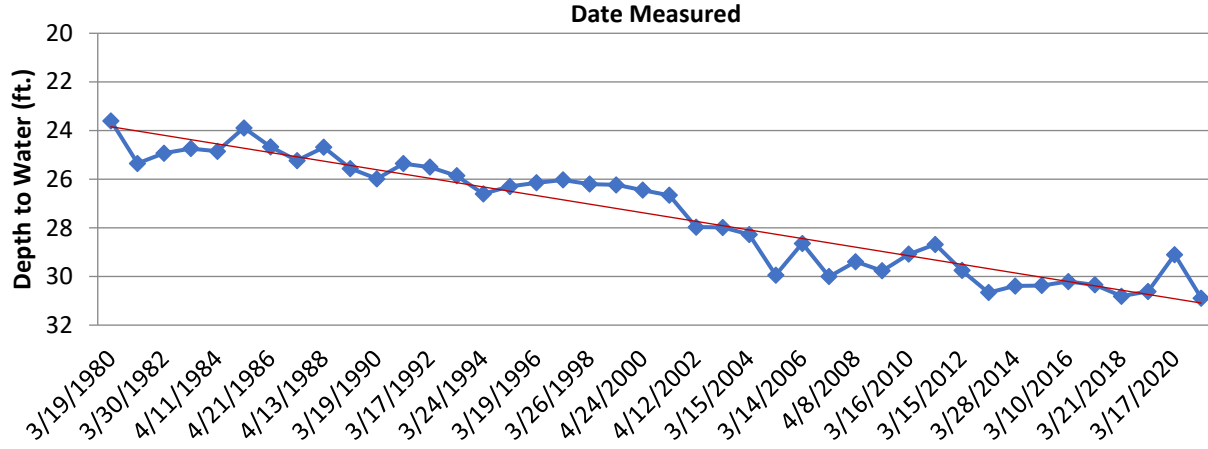
Cheyenne County Hydrograph Locations

Feet

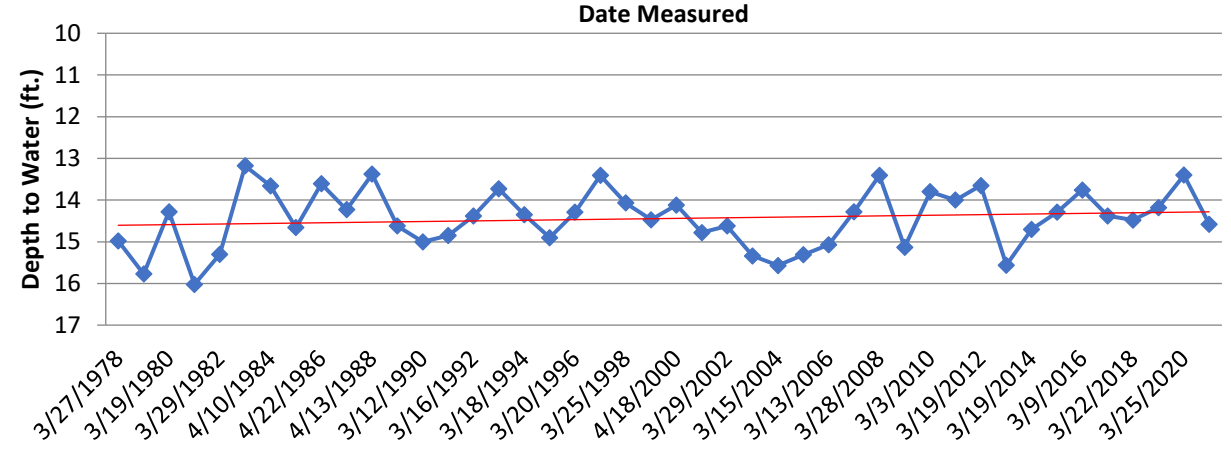
- 3 to -6
- 1 to -3
- 1 to -1
- 1 to 3
- 3 to 5
- Limited Data
- One Year Wells



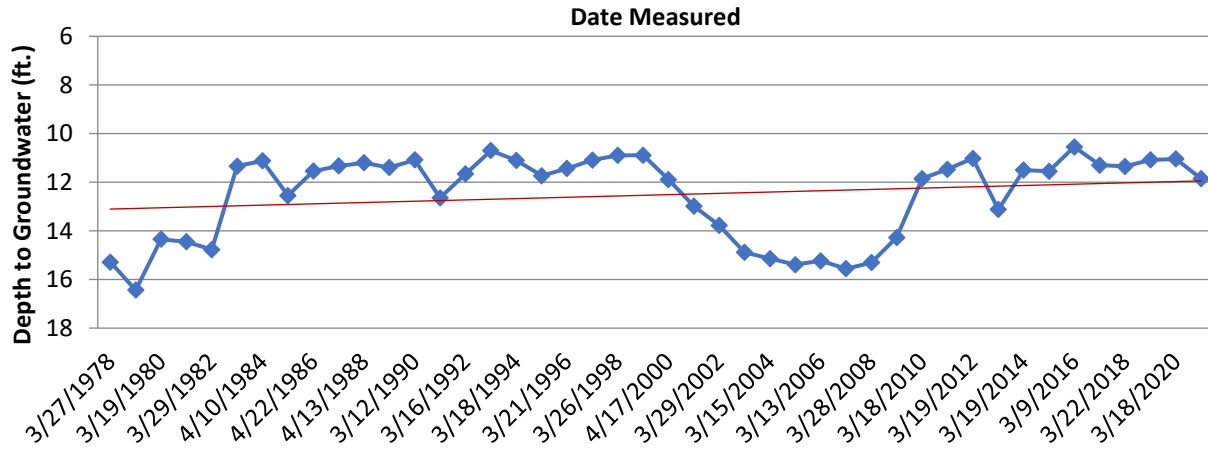
14N 52W 3CBA
2 East of Potter
Ogallala Formation
Oliver Reservoir to Buffalo Bend subarea



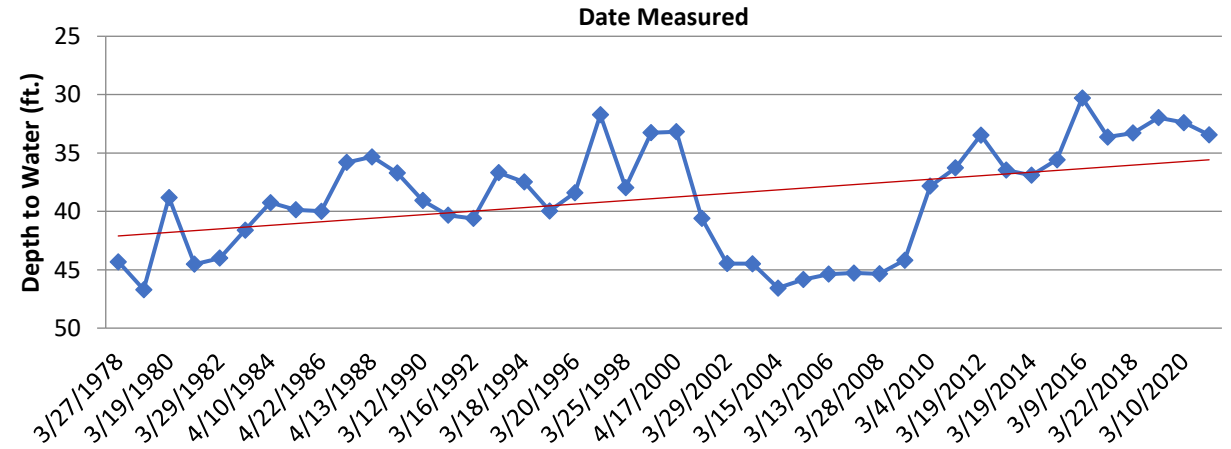
14N 49W 25CDB
7 East 1 North of Sidney
Brule Formation
Sidney to Colorado Subarea



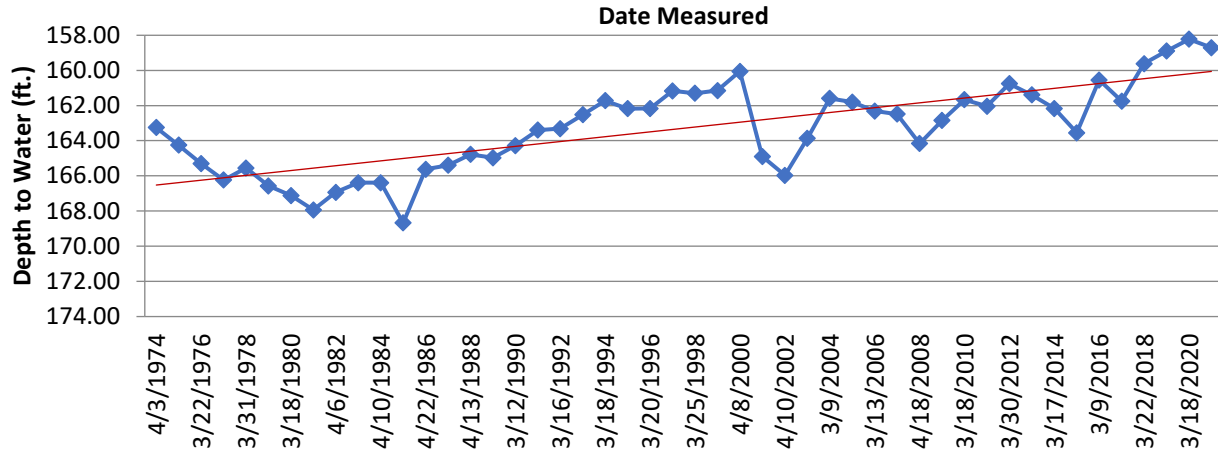
14N 47W 28CB
2 East of Sunol
Brule Formation
Sidney to Colorado Subarea



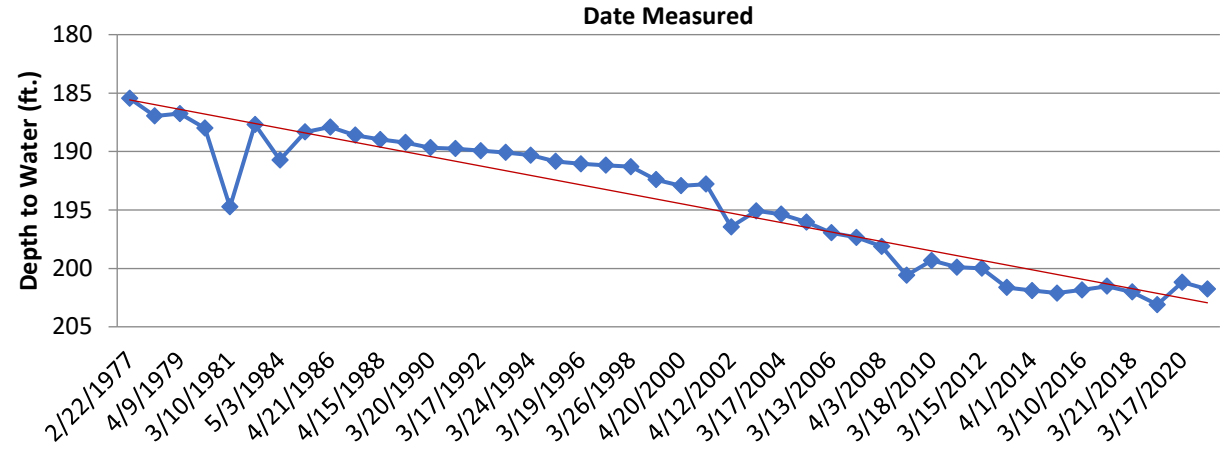
14N 48W 27CCC
2 West of Sunol
Brule Formation
Sidney to Colorado Subarea



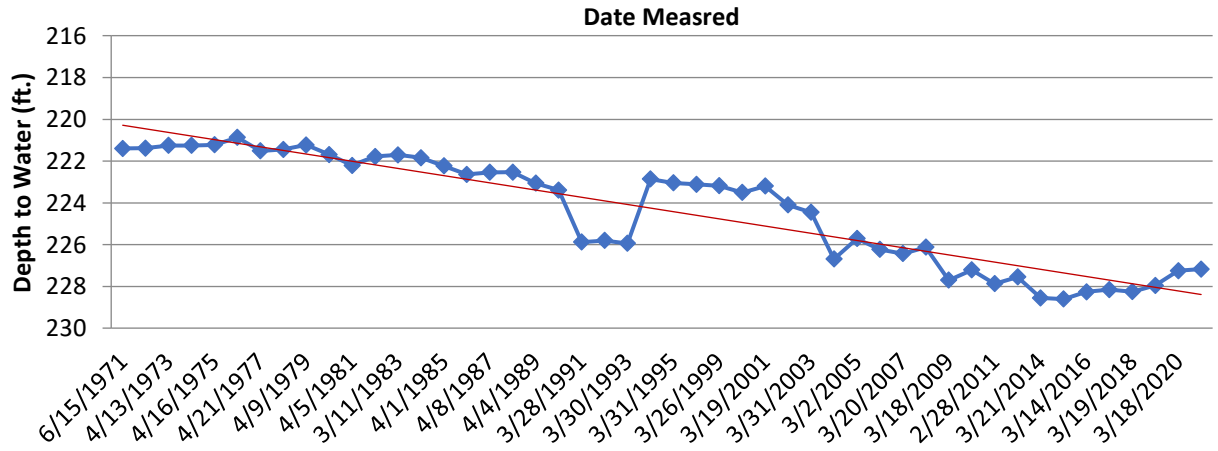
13N 47W 32ADB
6 South 4 West of Lodgepole
Ogallala Formation
Fully Appropriated Subarea (South Table)



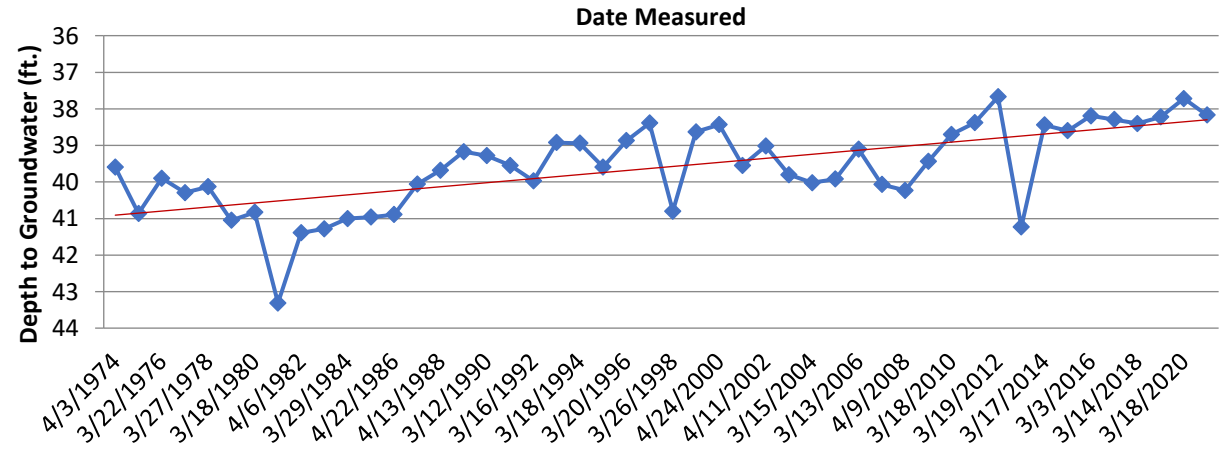
15N 51W 6BA
6 North 5 East of Potter
Ogallala Formation
Fully Appropriated Subarea (North Table)



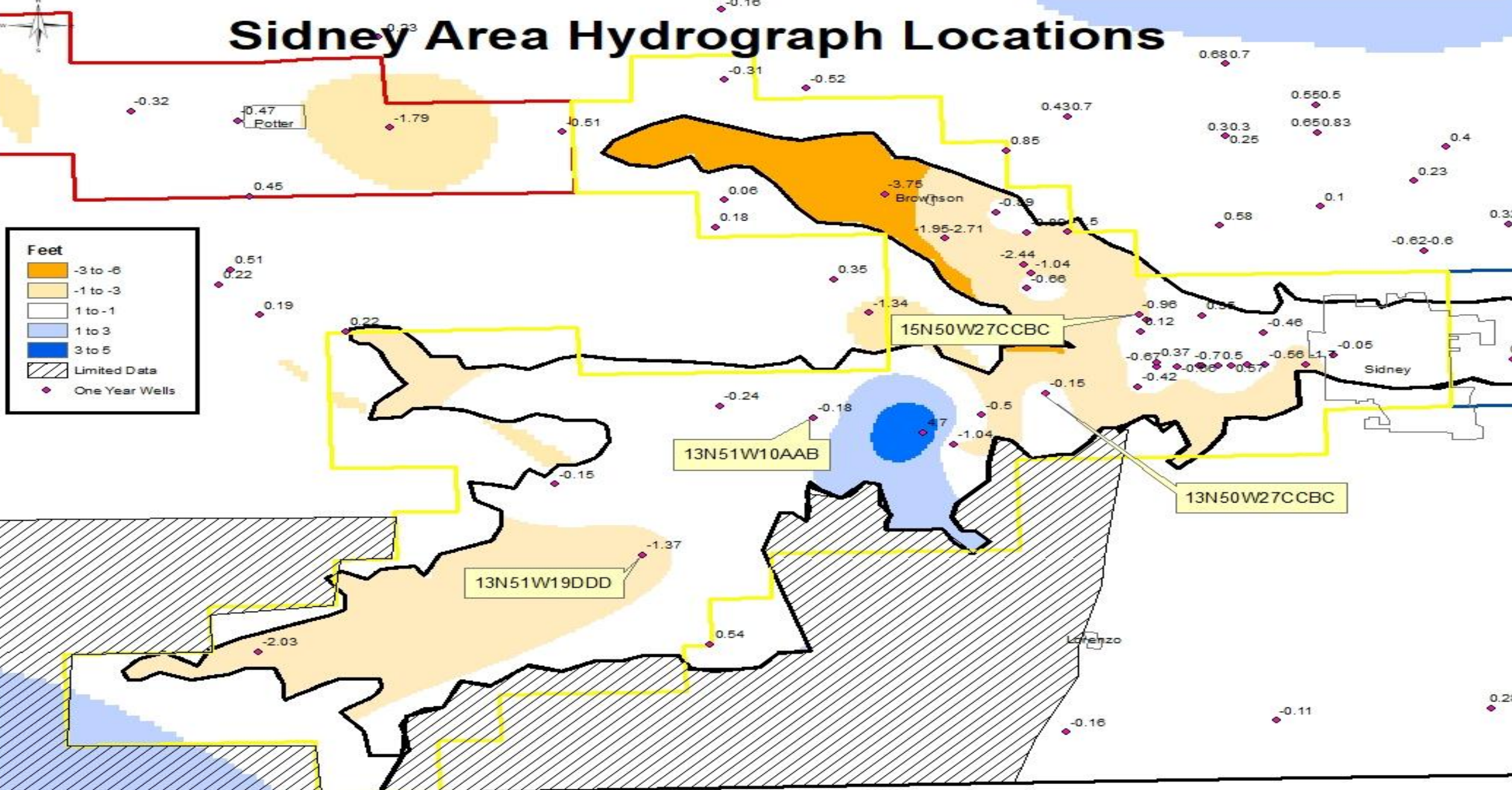
16N 49W 19BBB
2 North 1 West of Gurley
Ogallala Formation
Fully Appropriated Subarea (North Table)



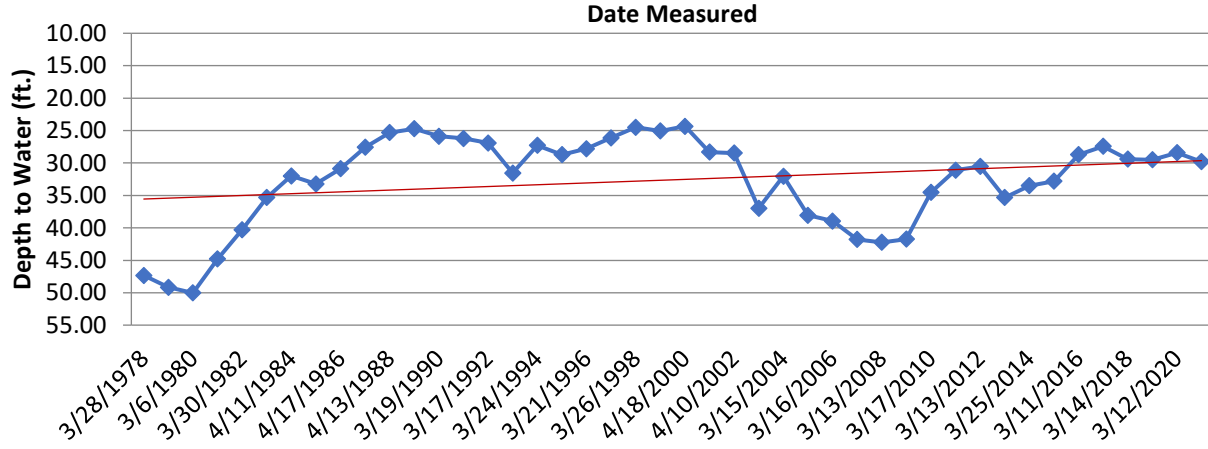
15N 46W 18CCC
8 North 1 West of Lodgepole
Ogallala Formation
Fully Appropriated (North Table)



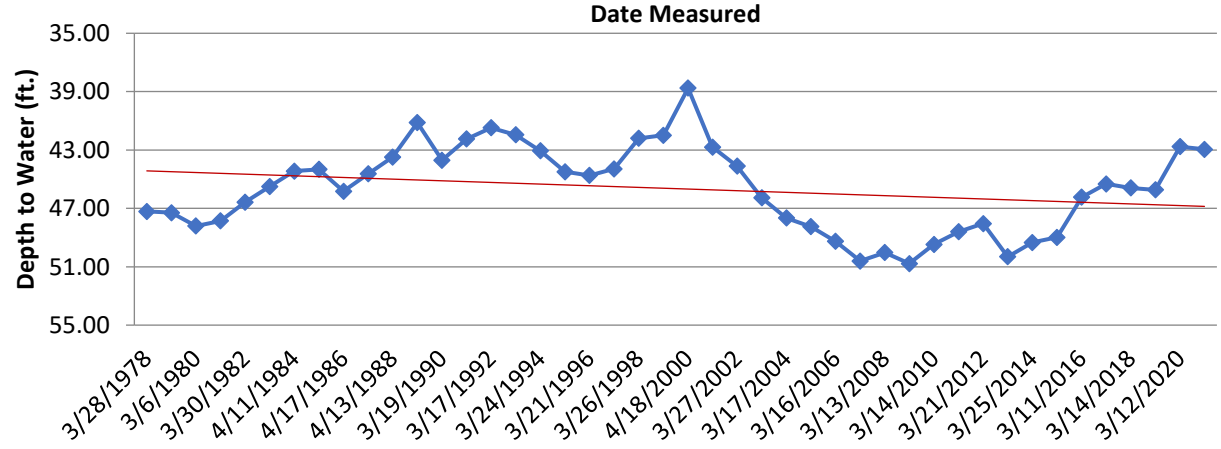
Sidney Area Hydrograph Locations



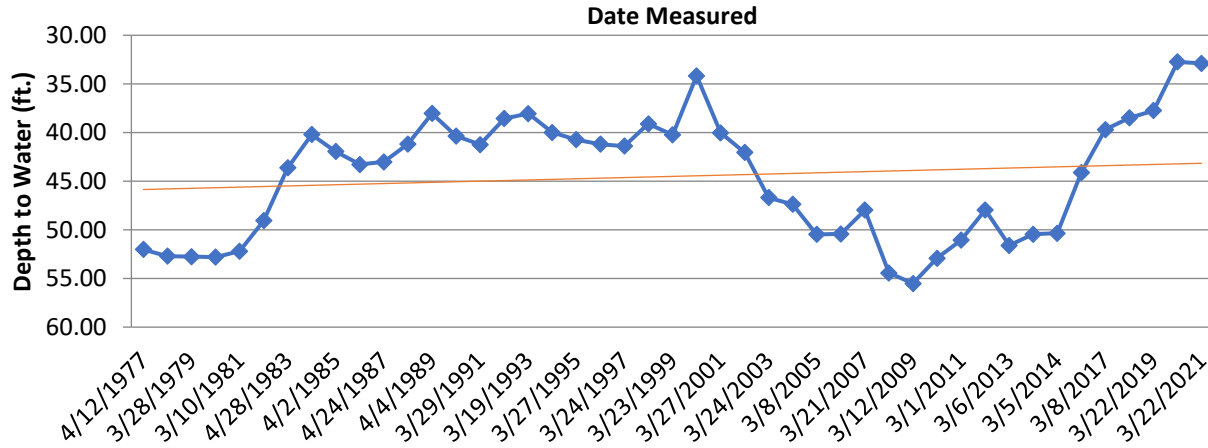
13N 51W 19DDD
4 South 11 West of Sidney
Brule Formation
Buffal Bend to Sidney Subarea



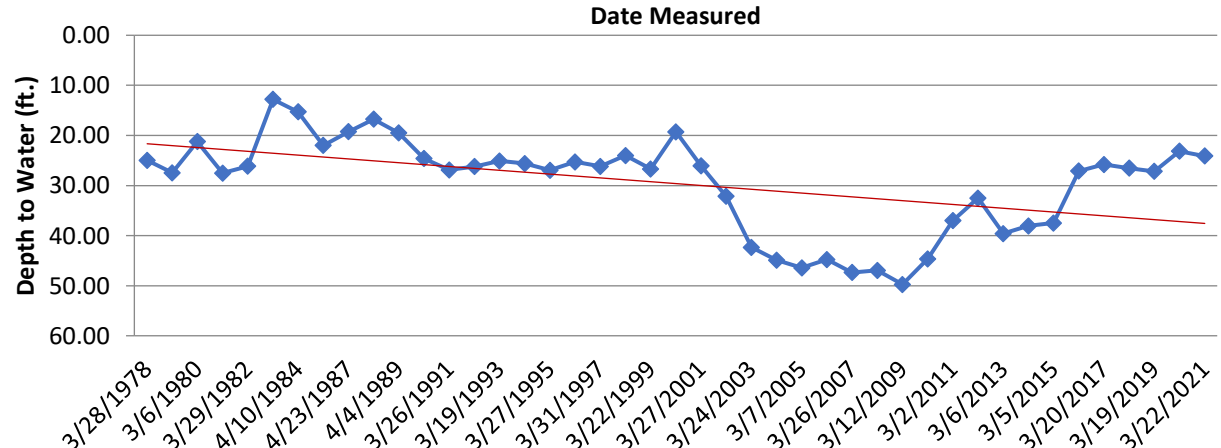
13N 51W 10AAB
1 South 8 West of Sidney
Brule Formation
Buffalo Bend to Sidney Subarea



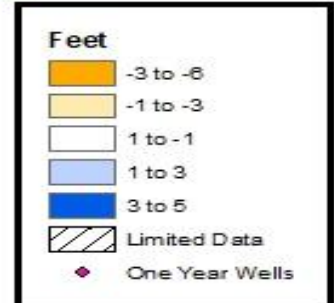
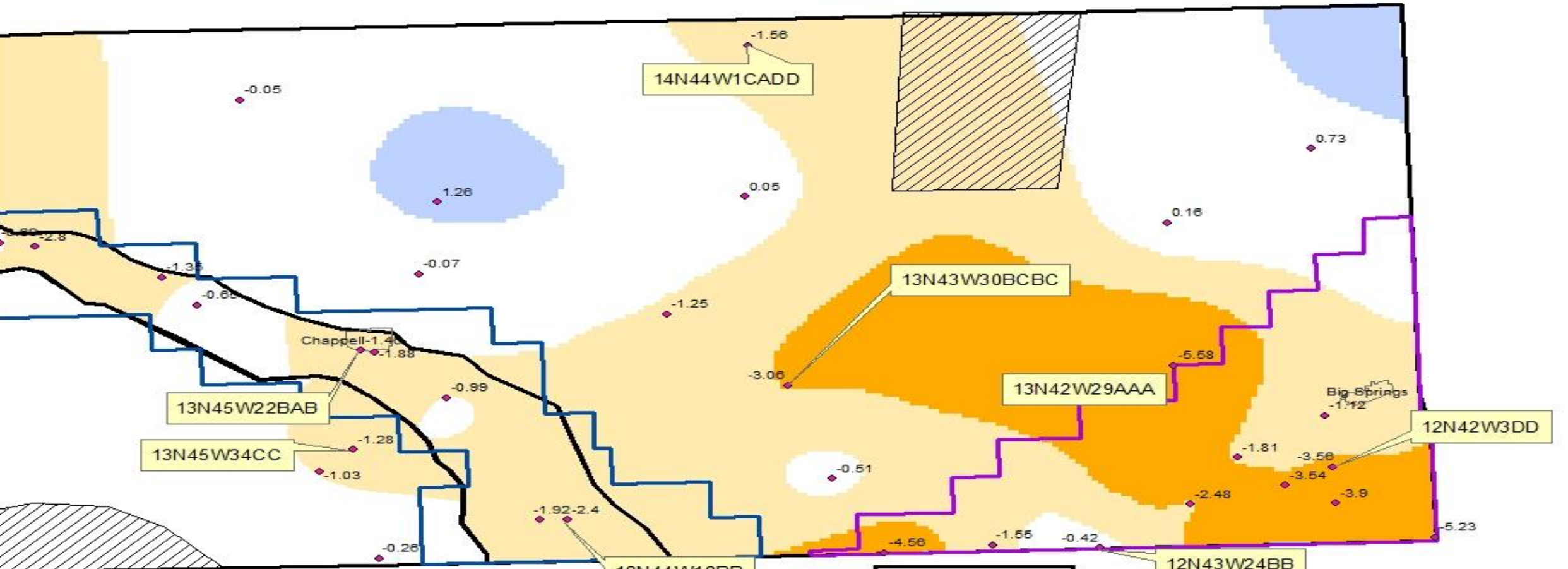
13N 50W 5DBB
4.5 West of Sidney
Brule Formation
Buffalo Bend to Sidney Subarea



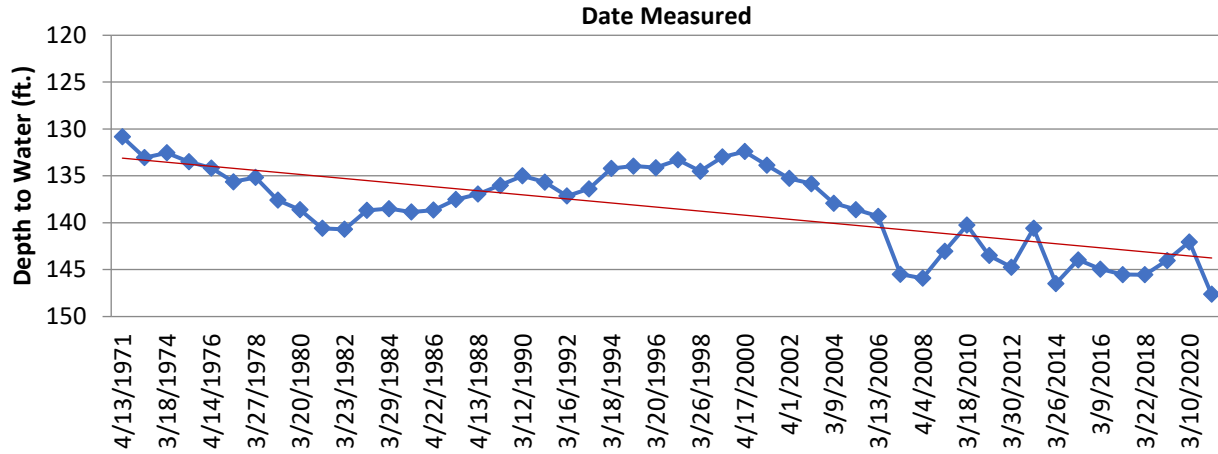
14N 50W 27CCBC
3 West of Sidney
Brule Formation
Buffalo Bend to Sidney Subarea



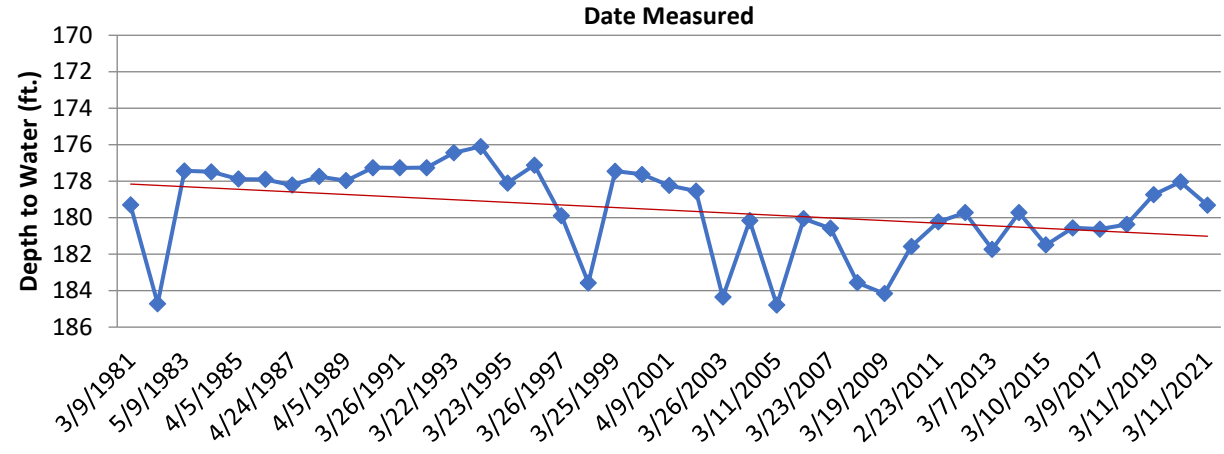
Deuel County Hydrograph Locations



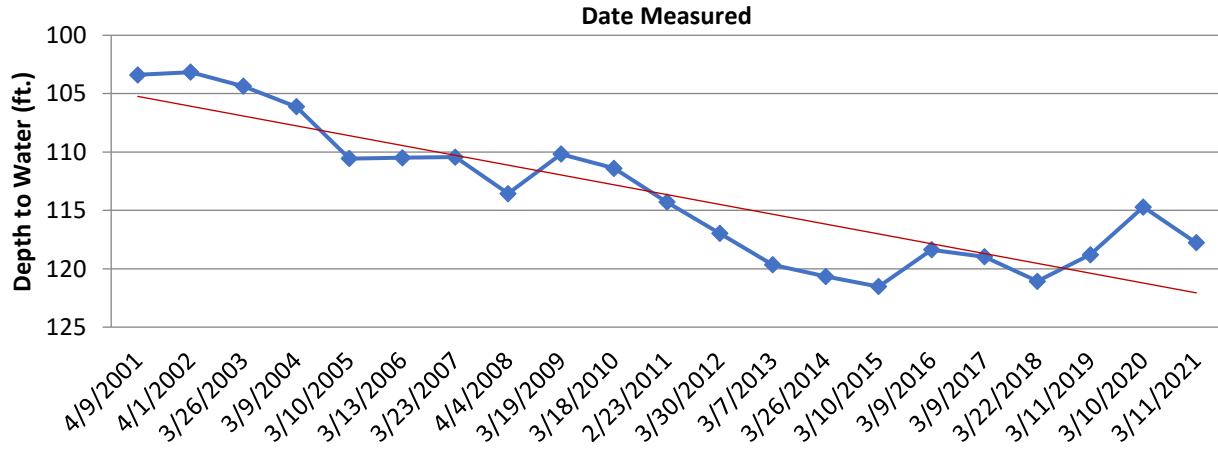
13N 42W 29AAA
4 West 1 North of Big Springs
Ogallala Formation
South Platte Valley Subarea



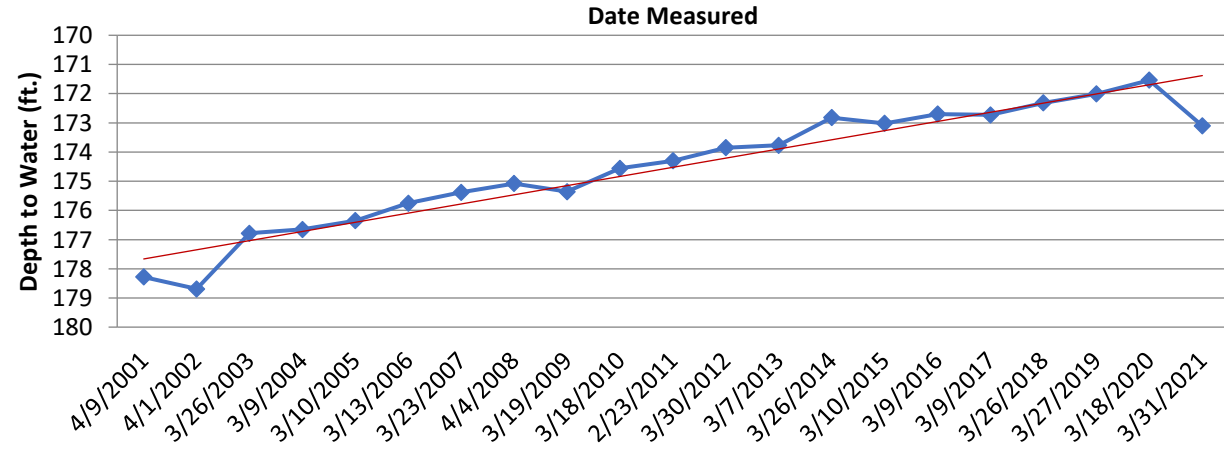
13N 45W 34CC
3 South of Chappell
Ogallala Formation
Full Appropriated Subarea (South Table)



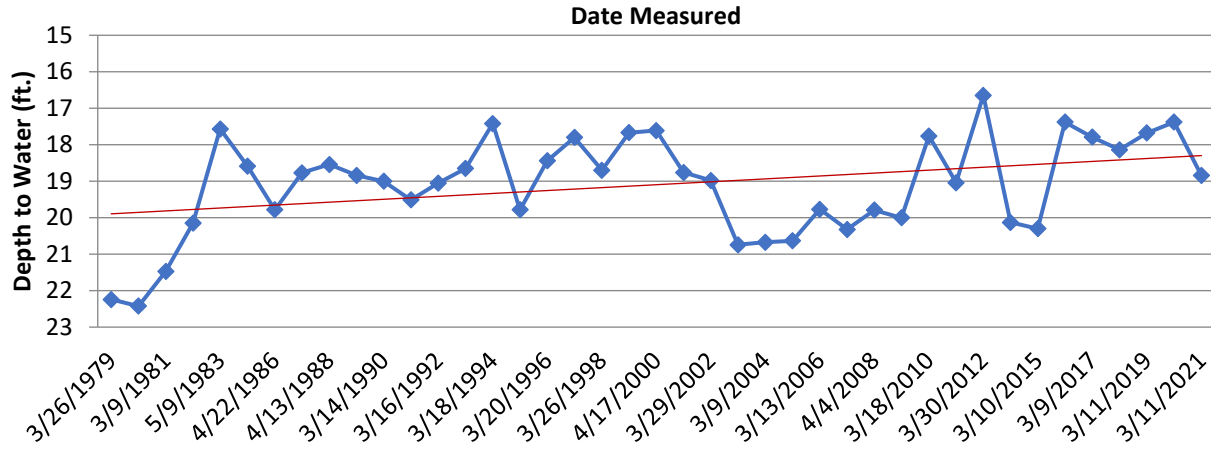
13N43W30BCBC
8 East 1 South of Chappell
Ogallala Formation
Fully Appropriated Subarea (North Table)



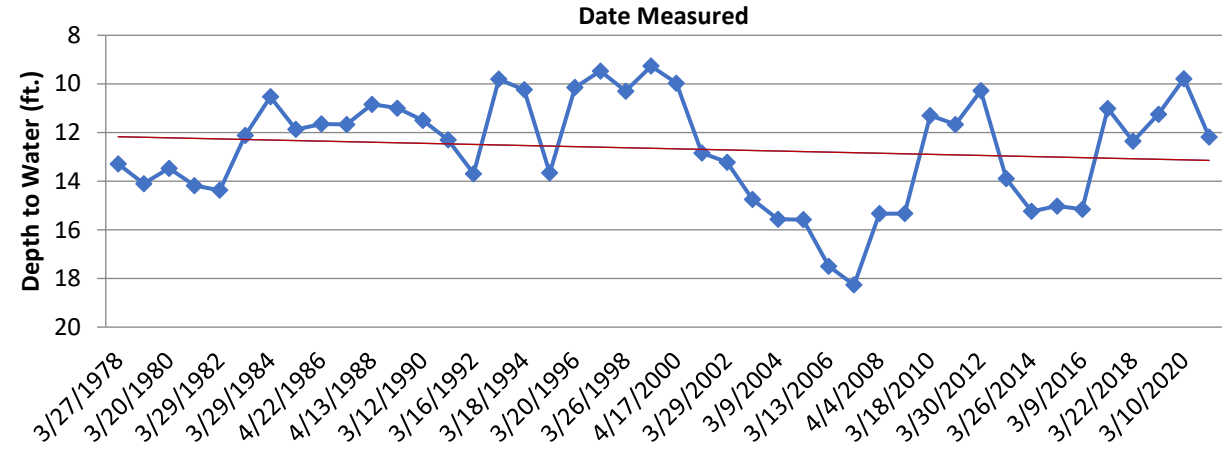
14N44W1CADD
9 North 7 East from Chappell
Ogallala Formation
Fully Appropriated Subarea (North Table)



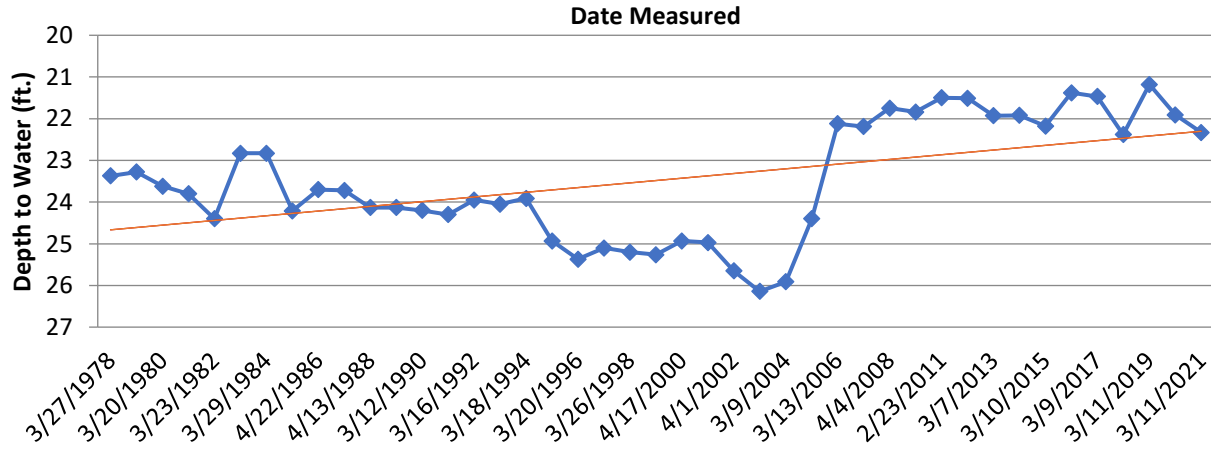
13N 45W 22BAB
in Chappell by viaduct
Brule Formation
Sidney to Colorado Subarea



12N 44W 18BB
1 North of CO/NE State Line
Brule Formation
Sidney to Colorado Subarea



12N 43W 24BB
4 South 6 West of Big Springs
Alluvium/Ogallala Formations
South Platte Valley Subarea



12N 42W 3DDD
2 South 1 West of Big Springs
Alluvium/Ogallala Formations
South Platte Valley Subarea

