

Natural Resources District

2021 SPRING WATER LEVELS

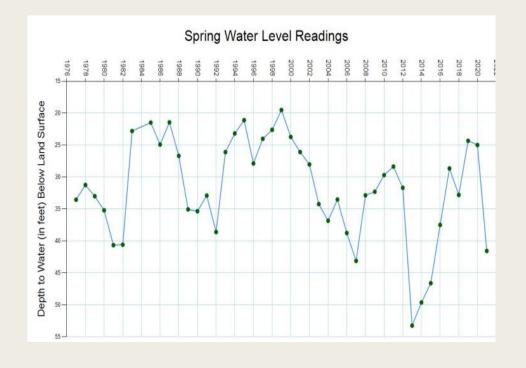
2021 SPRING WATER LEVELS

- MEASUREMENTS CONDUCTED FROM MID-MARCH THROUGH APRIL
- THANKS TO JOSH, TODD, AND MIKE M.
- 240 WELLS THROUGHOUT THE DISTRICT WERE MEASURED
- WELLS DECREASED AN AVERAGE OF 2.42' ACROSS THE DISTRICT
 - 12 WELLS INCREASED IN WATER LEVEL (5%)
 - 211 WELLS DECREASED IN WATER LEVEL (88%)
 - 16 WELLS HAD NO CHANGE (7%)
 - 1 NEW WELL MEASURED
- LONG TERM MONITORING OF WATER LEVELS ARE DONE TO OBTAIN LONG TERM DATA, AND USED AS CRITERIA FOR GROUNDWATER QUANTITY TRIGGERS LOCATED IN RULE 12 OF THE DISTRICT'S RULES AND REGS

2021 SPRING WATER LEVELS

WELLS CAN BE HIGHLY VARIABLE, DEPENDING ON:

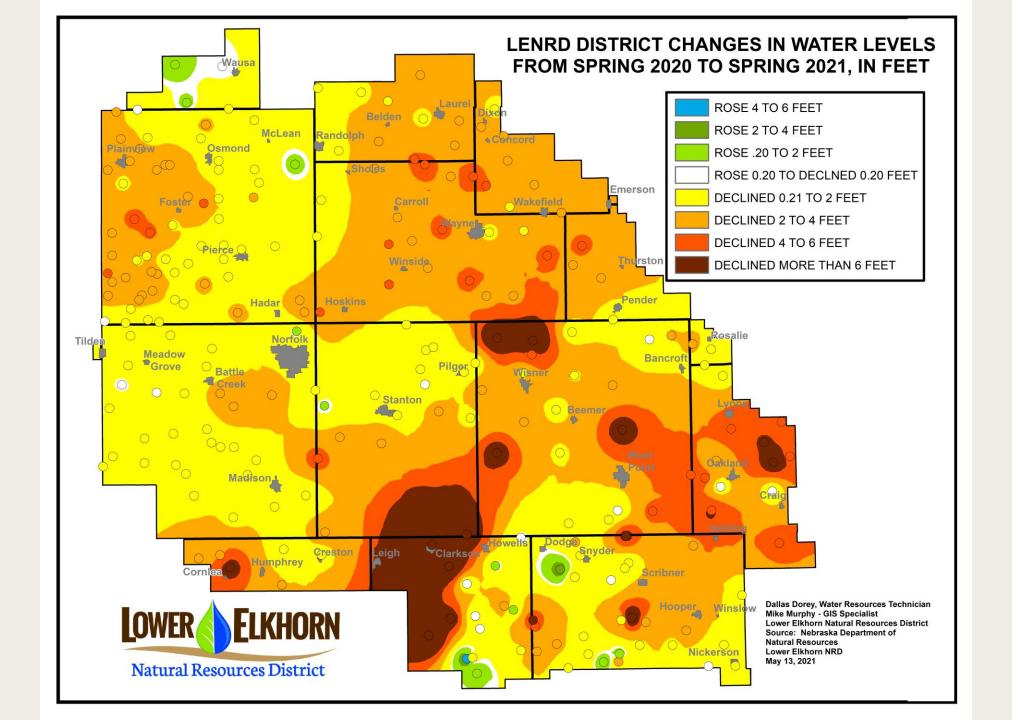
- DEPTH OF WELL
- LOCATION
- HYDROLOGICAL CONNECTIVITY
- REGIONAL AQUIFER CONDITIONS



2021 SPRING WATER LEVELS

WEATHER RECAP

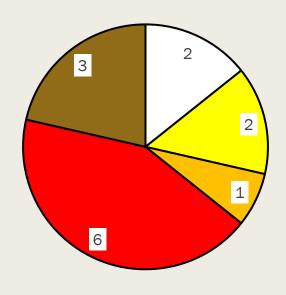
- JUNE 16, 2020: 1ST AREAS OF DO (ABNORMALLY DRY) DROUGHT. GENERALLY THE EAST 2/3 OF THE DISTRICT.
- JULY 7, 2020: MOST OF DISTRICT IN D1 OR D0, PORTIONS OF PIERCE/MADISON COUNTIES NORMAL
- JULY 14, 2020: EAST 2/3 OF DISTRICT IN D1.
- AUGUST 4, 2020: 1ST AREA OF D2 DROUGHT IN EAST HALF OF DISTRICT
- SEPTEMBER 8, 2020: AREA OF D3 DROUGHT IN BURT/CUMING/DODGE/THURSTON COUNTIES
- OCTOBER 13, 2020: D3 DROUGHT GONE FROM DISTRICT
- FEBRUARY 16, 2021: D2 DROUGHT GONE FROM DISTRICT
- MARCH 16, 2021: D1 DROUGHT GONE FROM DISTRICT
- CURRENTLY: STILL A SLIVER OF DO IN NORTHERN PIERCE CO., SW CEDAR CO. AND KNOX CO.



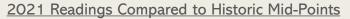
BURT COUNTY

14 WELLS: DECREASED AVERAGE OF 4.14' FROM 2020

2021 SWL Compared to 2020





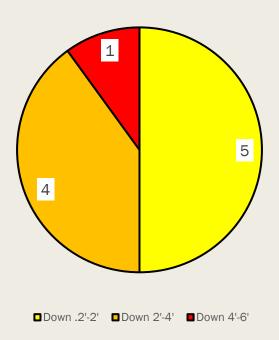




CEDAR COUNTY

11 WELLS: DECREASED AVERAGE OF 2.68' FROM 2020 (ONE NEW WELL)

2021 SWL Compared to 2020

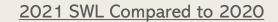


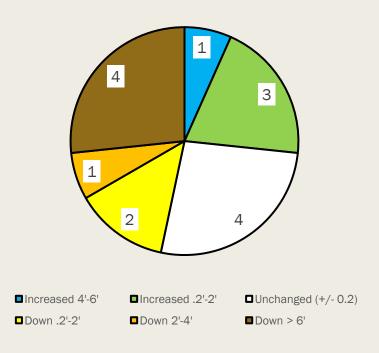
2021 Readings Compared to Historic Mid-Points



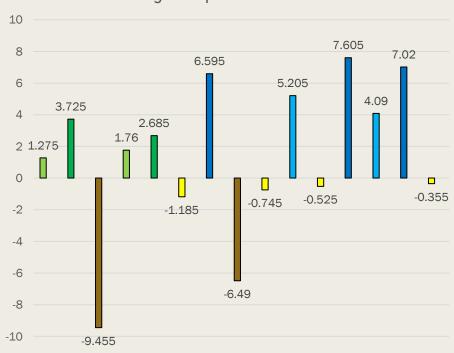
COLFAX COUNTY

15 WELLS: DECREASED AVERAGE OF 3.5' FROM 2020





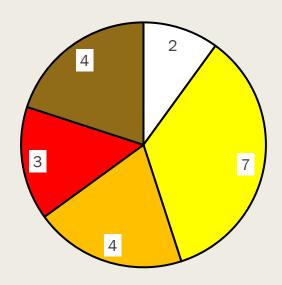
2021 Readings Compared to Historic Mid-Points



CUMING COUNTY

20 WELLS: DECREASED AVERAGE OF 3.65' FROM 2020

2021 SWL Compared to 2020





2021 Readings Compared to Historic Mid-Points

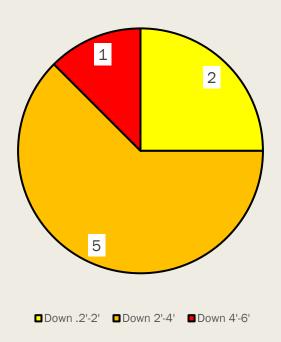


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DIXON COUNTY

8 WELLS: DECREASED AVERAGE OF 2.85' FROM 2020

2021 SWL Compared to 2020



2021 Readings Compared to Historic Mid-Points

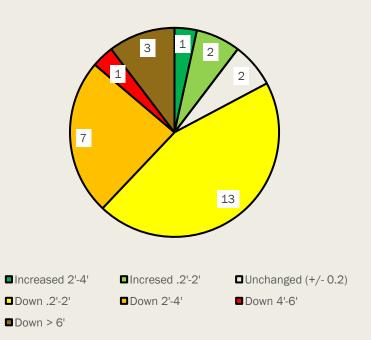


DODGE COUNTY

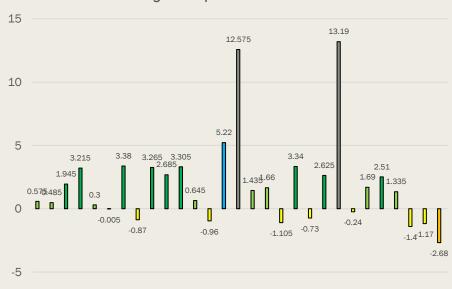
29 WELLS: DECREASED AVERAGE OF 2.06' FROM 2020

-10

2021 SWL Compared to 2020



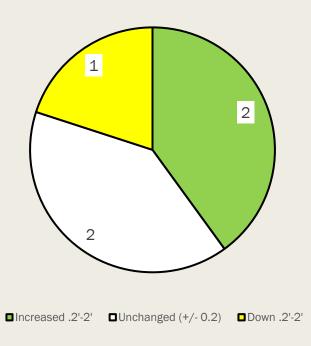
2021 Readings Compared to Historic Mid-Points



KNOX COUNTY

5 WELLS: INCREASED AVERAGE OF 0.11' FROM 2020

2021 SWL Compared to 2020



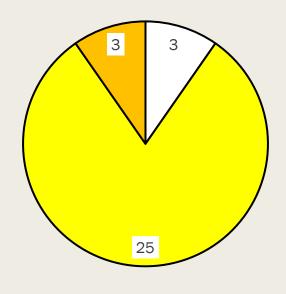
2021 Readings Compared to Historic Mid-Points



MADISON COUNTY

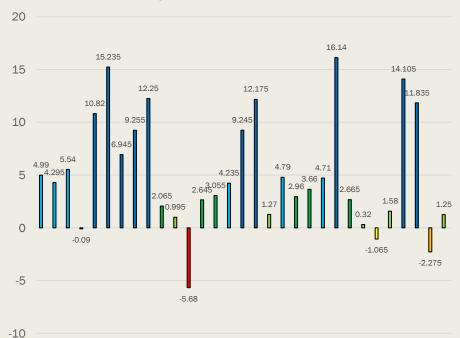
31 WELLS: DECREASED AVERAGE OF 1.1' FROM 2020

2021 SWL Compared to 2020



□ Unchanged (+/- 0.2) □ Down .2'-2' □ Down 2'-4'

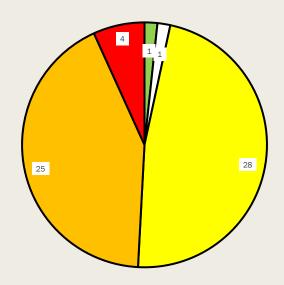
2021 Readings Compared to Historic Mid-Points



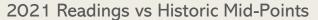
PIERCE COUNTY

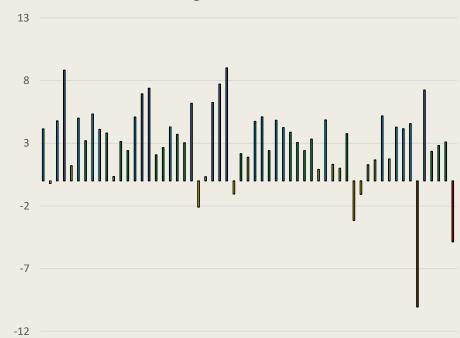
59 WELLS: DECREASED AVERAGE OF 2.04' FROM 2020

2021 SWL Compared to 2020



■Increased .2'-2' ■Unchanged (+/- 0.2) ■Down .2'-2' ■Down 2'-4' ■Down 4'-6'

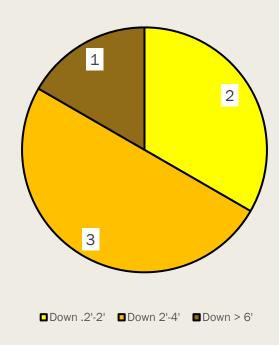




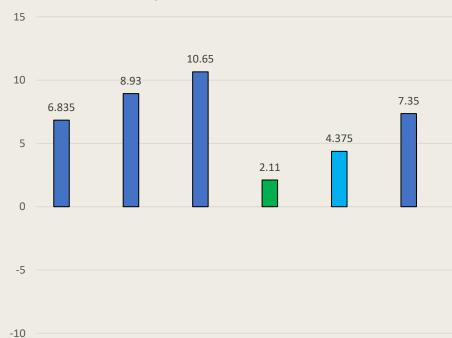
PLATTE COUNTY

6 WELLS: DECREASED AVERAGE OF 3.06' FROM 2020

2021 SWL Compared to 2020



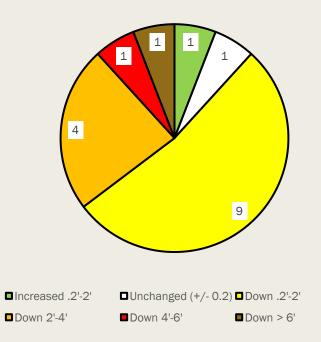
2021 Readings Compared to Historical Mid-Points

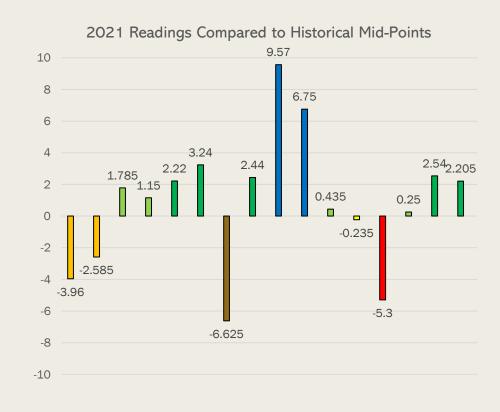


STANTON COUNTY

17 WELLS: DECREASED AVERAGE OF 2.07' FROM 2020

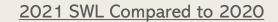
2021 SWL Compared to 2020

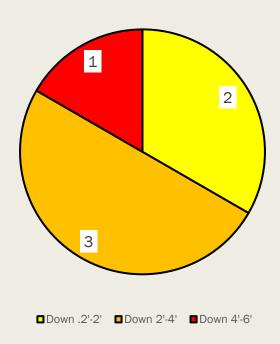




THURSTON COUNTY

6 WELLS: DECREASED AVERAGE OF 2.6' FROM 2020





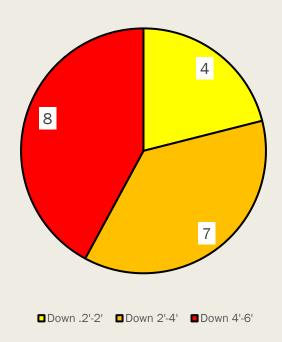
2021 Readings Compared to Historical Mid-Points



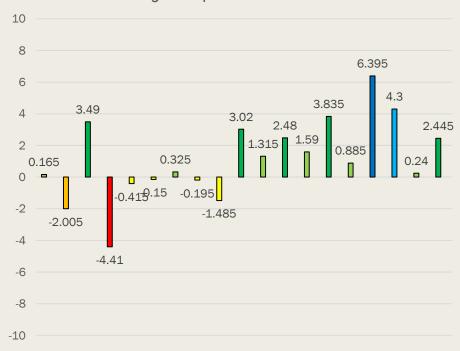
WAYNE COUNTY

19 WELLS: DECREASED AVERAGE OF 3.35' FROM 2020

2021 SWL Compared to 2020



2021 Readings Compared to Historical Mid-Points



QUESTIONS/COMMENTS