



2022 SPRING STATIC WATER LEVELS

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- MEASUREMENTS STARTED ON MARCH 21
- JOSH, TODD, AND DALLAS PERFORMED MEASUREMENTS
- ACTIVE IRRIGATION WELLS, OR FORMER IRRIGATION WELLS WITH COVERS ARE MEASURED
- 240 WELLS THROUGHOUT THE DISTRICT
- WELLS DECREASED AN AVERAGE OF 1.09' ACROSS THE DISTRICT
 - 20 WELLS INCREASED AT LEAST 0.2' (8.3%)
 - 189 WELLS DECREASED AT LEAST 0.2' (78.8%)
 - 31 WELLS REMAINED UNCHANGED, +/- 0.2' (12.9%)
- 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 GROUNDWATER REPORT: [HTTPS://DIGITALCOMMONS.UNL.EDU/CONSERVATIONSURVEY/800/](https://digitalcommons.unl.edu/conservationsurvey/800/)

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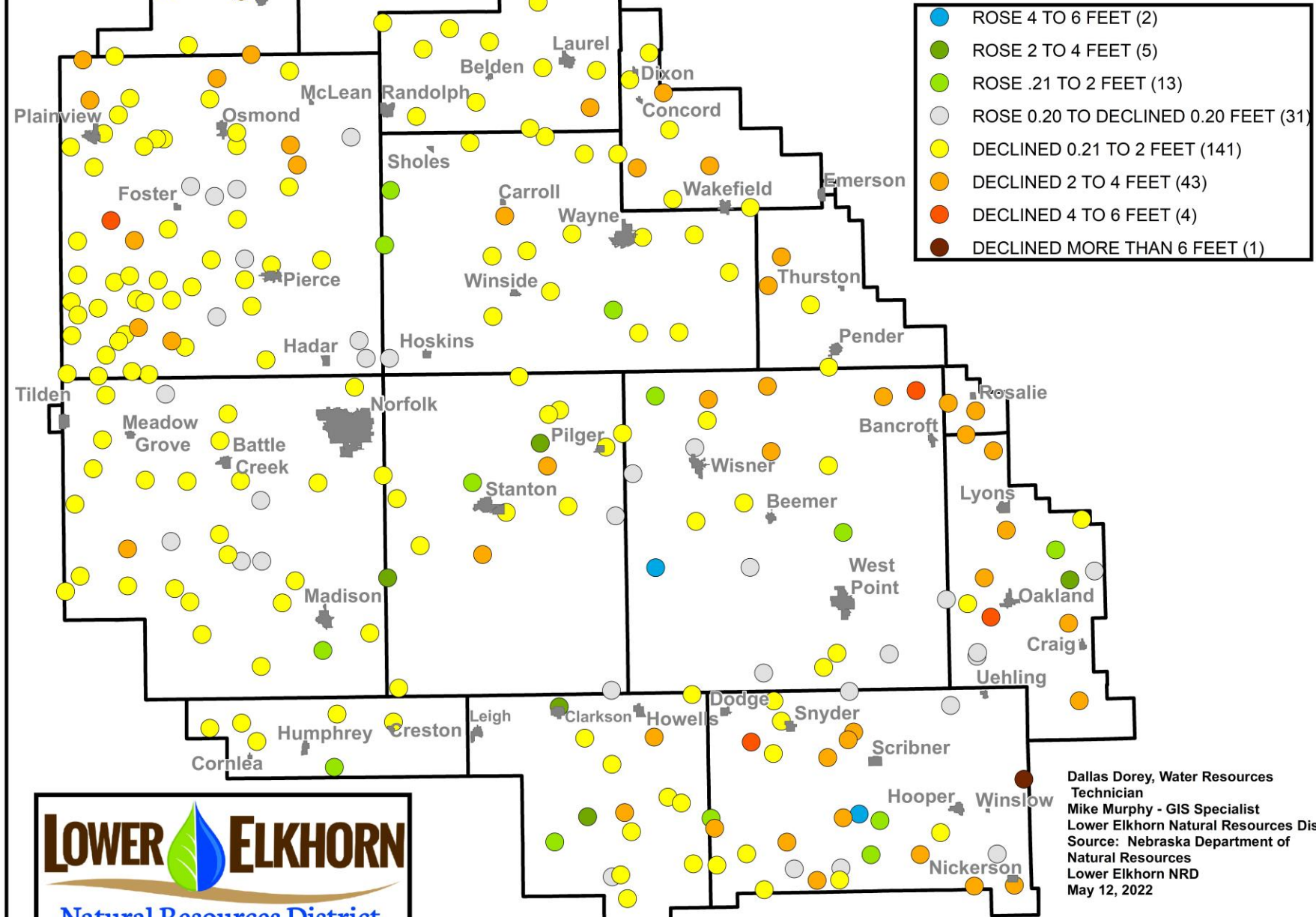
- HOW DO THE LAST COUPLE OF YEARS COMPARE?
 - 2020-2021: WELLS DECREASED AN AVERAGE OF 2.42'
 - 2021-2022: WELLS DECREASED AN AVERAGE OF 1.09'
 - GENERALLY, WELLS HAD INCREASED SINCE 2013 READINGS UNTIL THE LAST 2 YEARS
- WELL WATER LEVELS CAN BE HIGHLY VARIABLE DEPENDING ON
 - DEPTH OF WELL
 - LOCAL WEATHER CONDITIONS
 - HYDROLOGICAL CONNECTIVITY
 - TIMING OF RAINFALL
 - REGIONAL AQUIFER CONDITIONS (CONFINED/UNCONFINED)

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- WEATHER RECAP

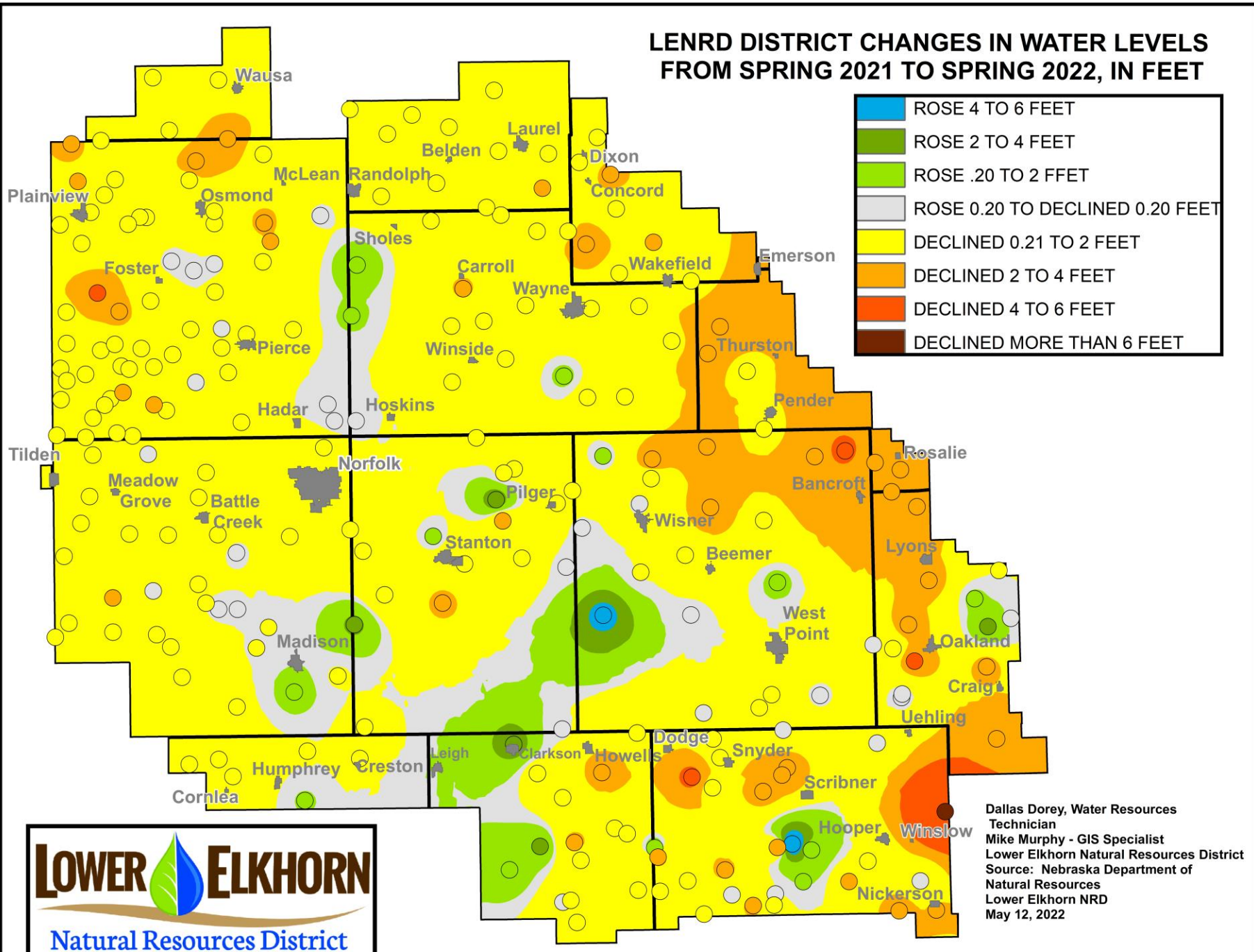
- START OF 2021, ALL OF DISTRICT WAS IN D1 OR D2
- BEGINNING OF MAY, 2021: A SMALL SLIVER OF THE NORTH PART OF DISTRICT WAS D0
- EARLY JULY 2021: ALL OF DISTRICT D0, NORTHERN PART D1
- EARLY SEPTEMBER – END OF YEAR: WESTERN & NORTHERN AREAS D0/D1
- FEBRUARY 1, 2022: ALL DISTRICT IN D0/D1
- MARCH 1, 2022: ALL DISTRICT IN D1/D2
- APRIL, 2022: VIRTUALLY ALL OF DISTRICT IN D2
- CURRENTLY??????????

LENRD DISTRICT CHANGES IN WATER LEVELS FROM SPRING 2021 TO SPRING 2022, IN FEET



Dallas Dorey, Water Resources Technician
 Mike Murphy - GIS Specialist
 Lower Elkhorn Natural Resources District
 Source: Nebraska Department of Natural Resources
 Lower Elkhorn NRD
 May 12, 2022

LENRD DISTRICT CHANGES IN WATER LEVELS FROM SPRING 2021 TO SPRING 2022, IN FEET

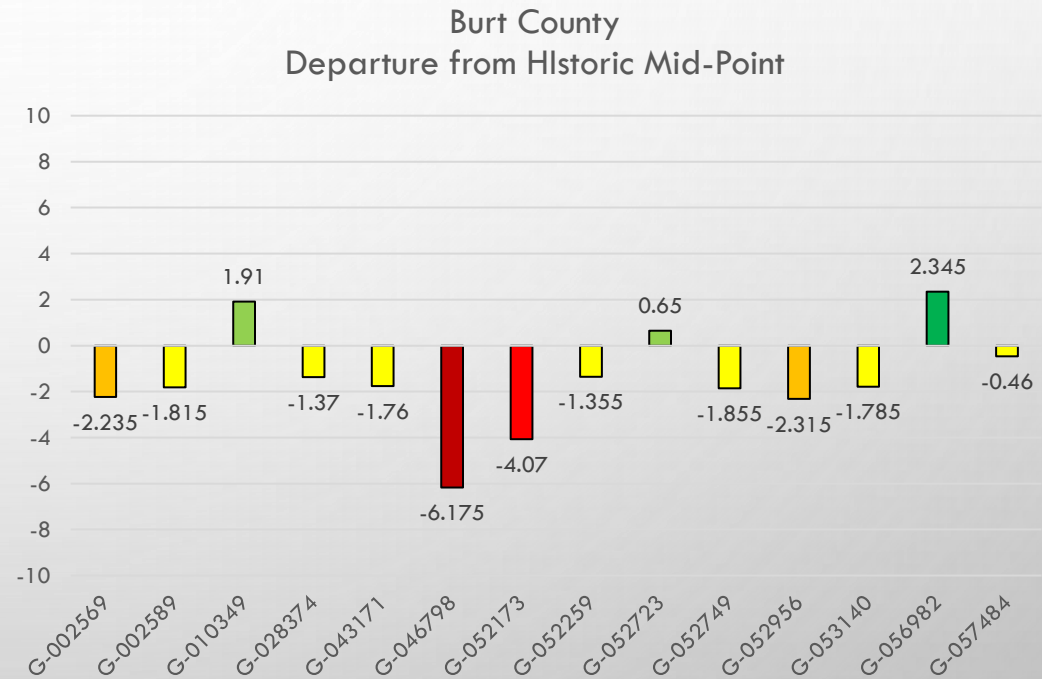


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 Mike Murphy - GIS Specialist
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BURT COUNTY

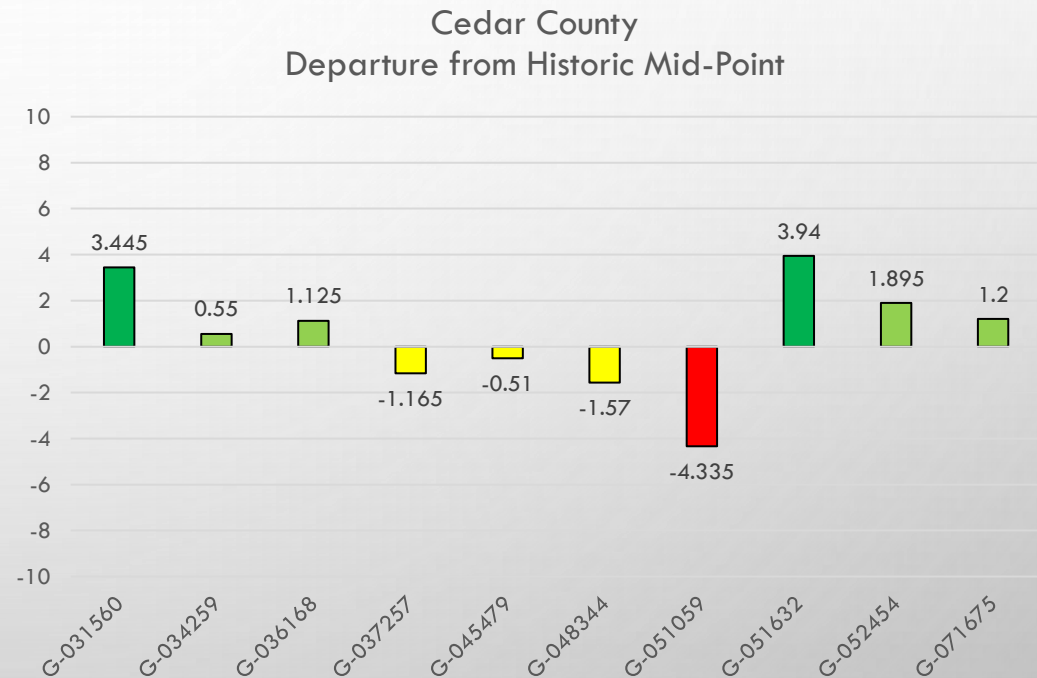
- 14 WELLS MEASURED
- 2 WELLS INCREASED, 3 UNCHANGED, AND 9 DECREASED
- **DECREASED** AN AVERAGE OF 1.49' FROM 2021
- WELLS ARE AN AVERAGE OF 1.45' **BELOW** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 5.64' FROM 2020 READINGS



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CEDAR COUNTY

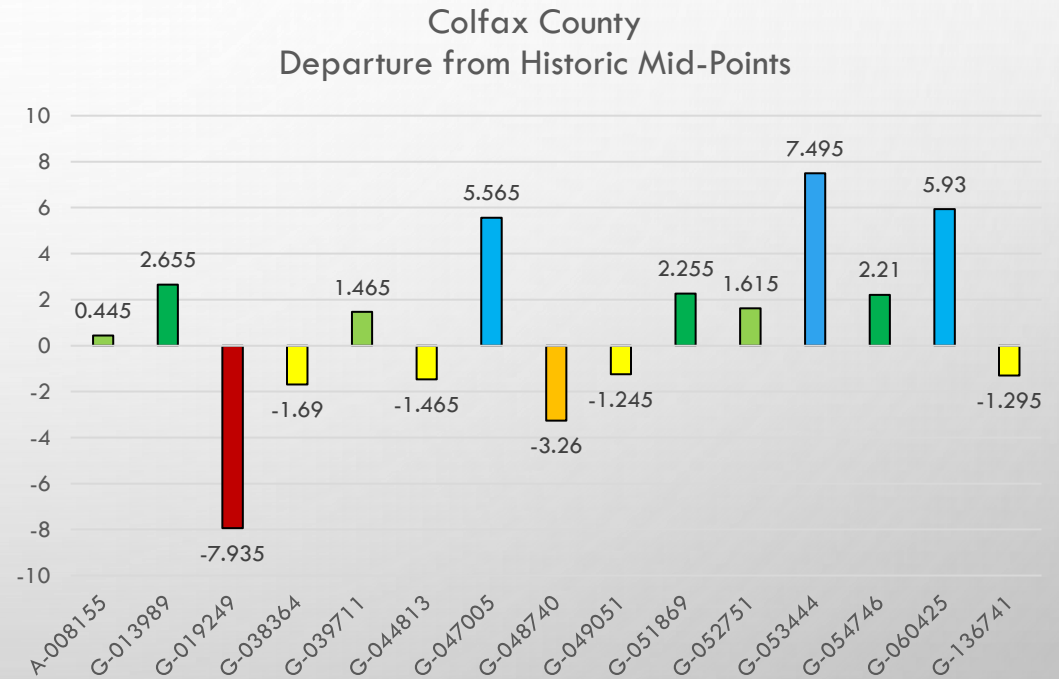
- 11 WELLS MEASURED
- ALL 11 WELLS DECREASED IN WATER LEVEL
- **DECREASED** AN AVERAGE OF 1.1'
- WELLS ARE AN AVERAGE OF 0.45' **ABOVE** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 3.87' FROM 2020 READINGS



2022 SPRING STATIC WATER LEVELS

COLFAX COUNTY

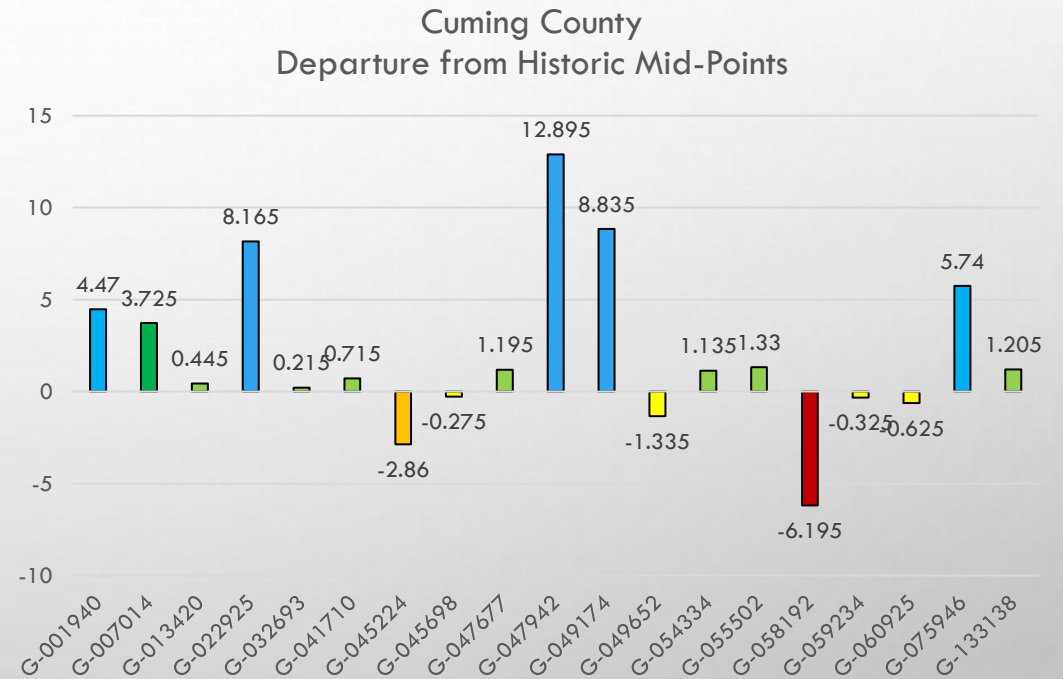
- 15 WELLS MEASURED
- 3 WELLS INCREASED, 1 REMAINED UNCHANGED, 11 WELLS DECREASED
- **DECREASED** AN AVERAGE OF 0.57' FROM 2021
- WELLS ARE AN AVERAGE OF 1.85' **ABOVE** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 4.07' FROM 2020 READINGS



2022 SPRING STATIC WATER LEVELS

CUMING COUNTY

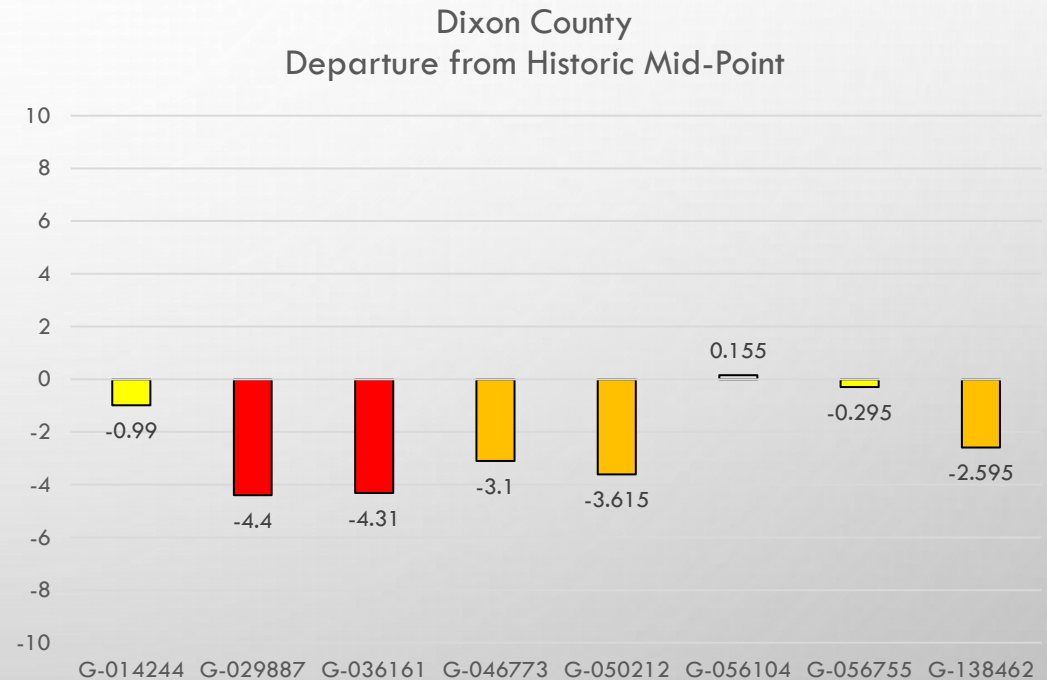
- 20 WELLS MEASURED
- 3 WELLS INCREASED, 6 REMAINED UNCHANGED, 11 DECREASED
- **DECREASED** AN AVERAGE OF 0.92' FROM 2021
- WELLS ARE AN AVERAGE OF 4.03' **ABOVE** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 4.56' FROM 2020 READINGS



2022 SPRING STATIC WATER LEVELS

DIXON COUNTY

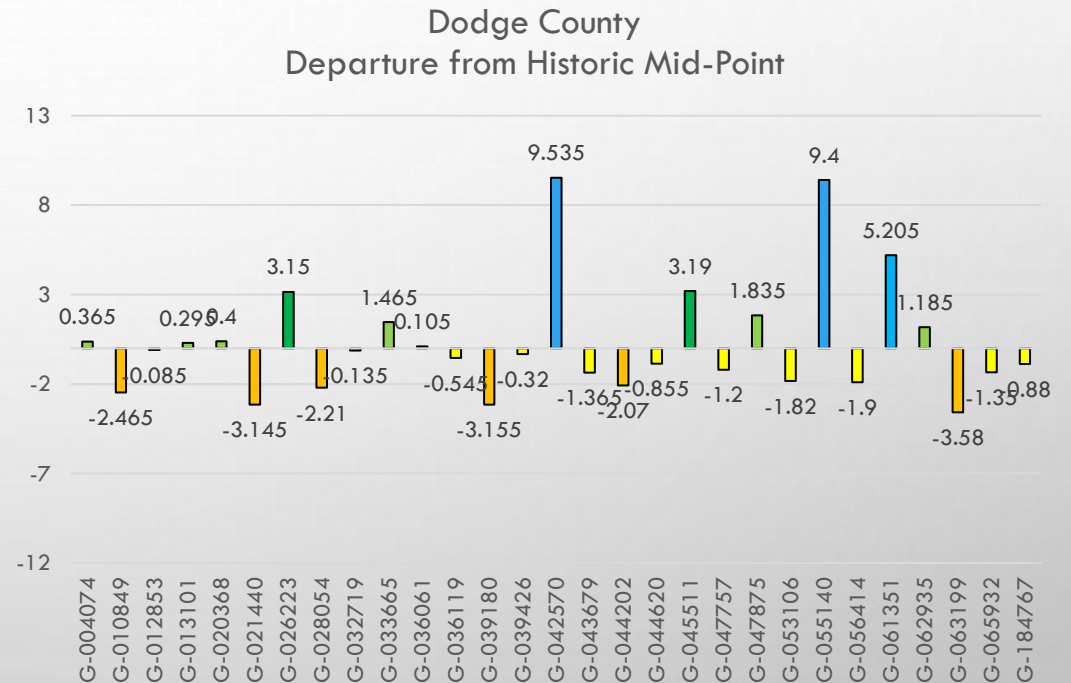
- 8 WELLS MEASURED
- ALL 8 WELLS DECREASED
- **DECREASED** AN AVERAGE OF 1.73' FROM 2021
- WELLS ARE AN AVERAGE OF 2.39' **BELOW** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 4.59' FROM 2020 READINGS



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DODGE COUNTY

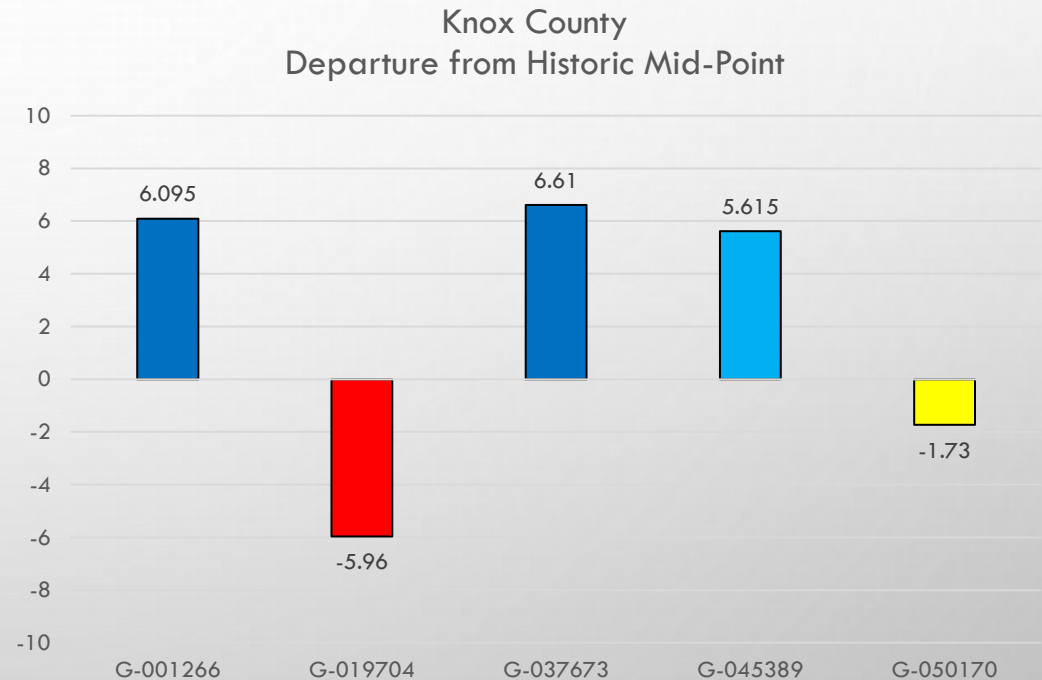
- 29 WELLS MEASURED
- 4 WELLS INCREASED, 5 REMAINED UNCHANGED, 20 WELLS DECREASED
- **DECREASED** AN AVERAGE OF 1.54' FROM 2021
- WELLS ARE AN AVERAGE OF 0.31' **ABOVE** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 3.61' FROM 2020 READINGS



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KNOX COUNTY

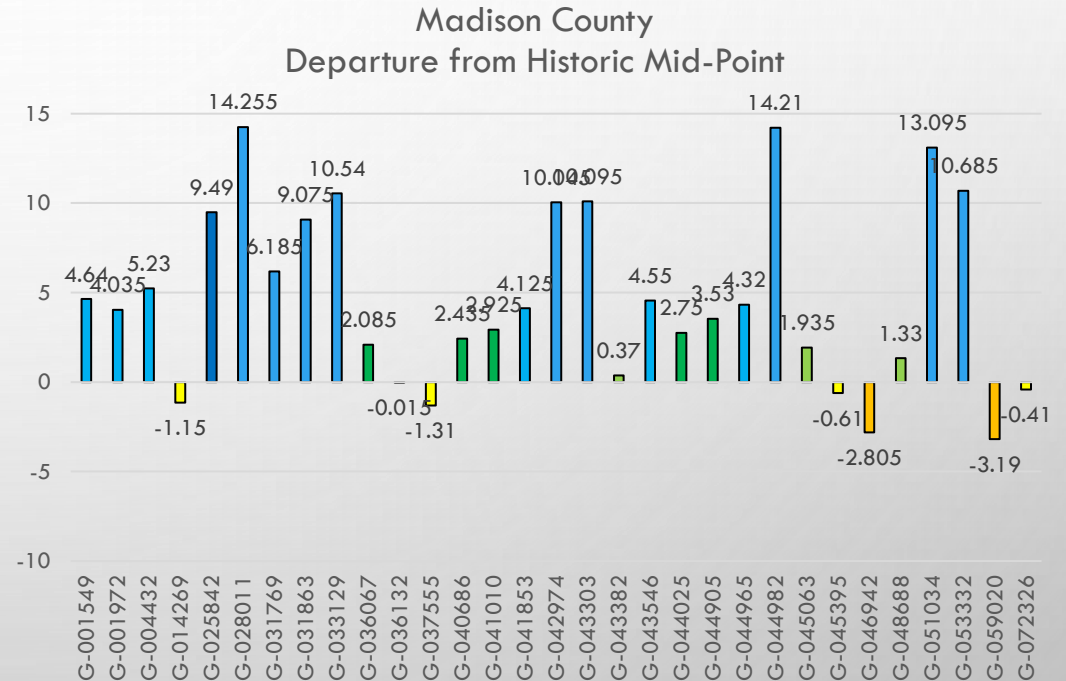
- 5 WELLS MEASURED
- ALL 5 WELLS DECREASED
- **DECREASED** AN AVERAGE OF 1.32' FROM 2021
- WELLS ARE AN AVERAGE OF 2.13' **ABOVE** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 1.22' FROM 2020 READINGS



2022 SPRING STATIC WATER LEVELS

MADISON COUNTY

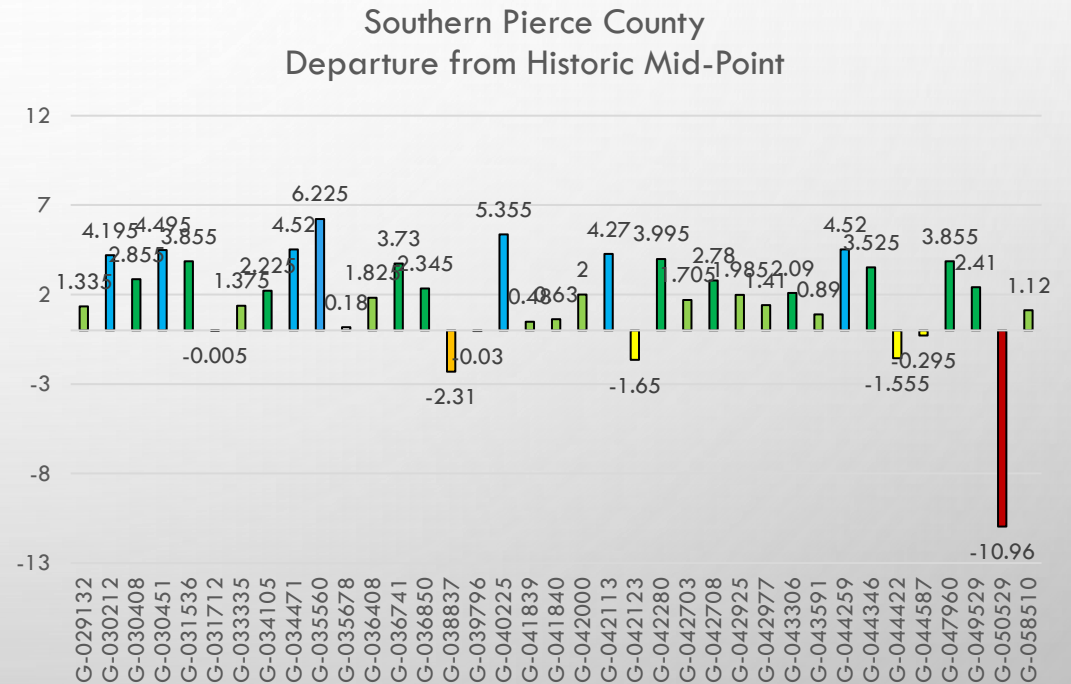
- 31 WELLS MEASURED
- 1 WELL INCREASED, 5 REMAINED UNCHANGED, 25 DECREASED
- **DECREASED** AN AVERAGE OF 0.79' FROM 2021
- WELLS ARE AN AVERAGE OF 4.60' **ABOVE** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 1.88' FROM 2020 READINGS



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SOUTHERN PIERCE COUNTY

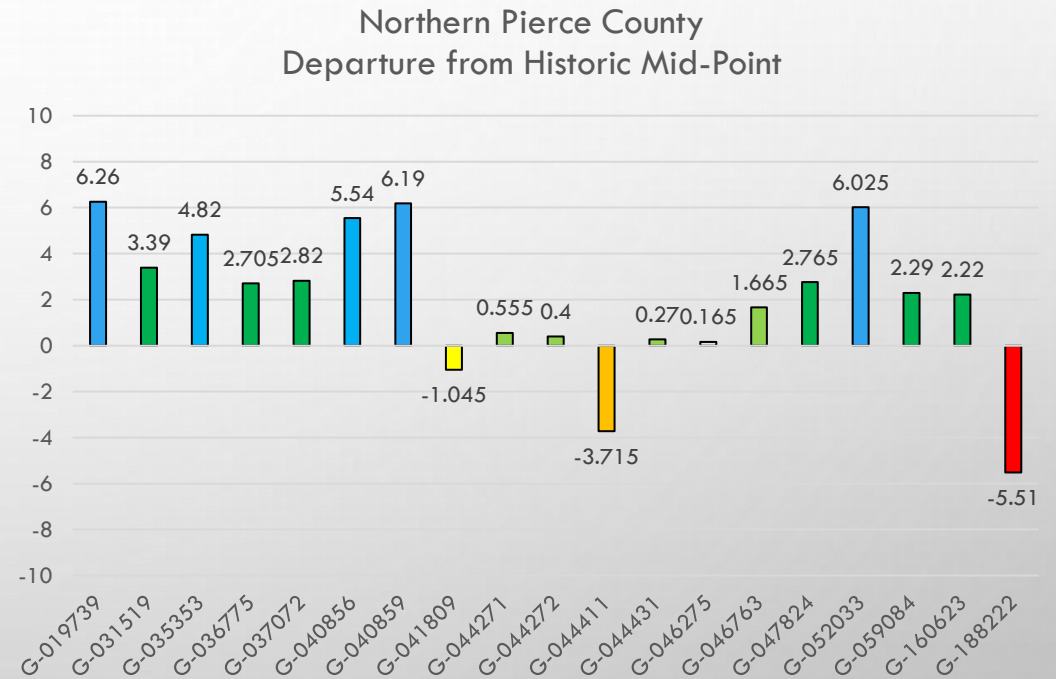
- 37 WELLS MEASURED
- 2 REMAINED UNCHANGED, 35 DECREASED
- **DECREASED** AN AVERAGE OF 0.97' FROM 2021
- WELLS ARE AN AVERAGE OF 1.77' **ABOVE** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 3.05' FROM 2020 READINGS



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NORTHERN PIERCE COUNTY

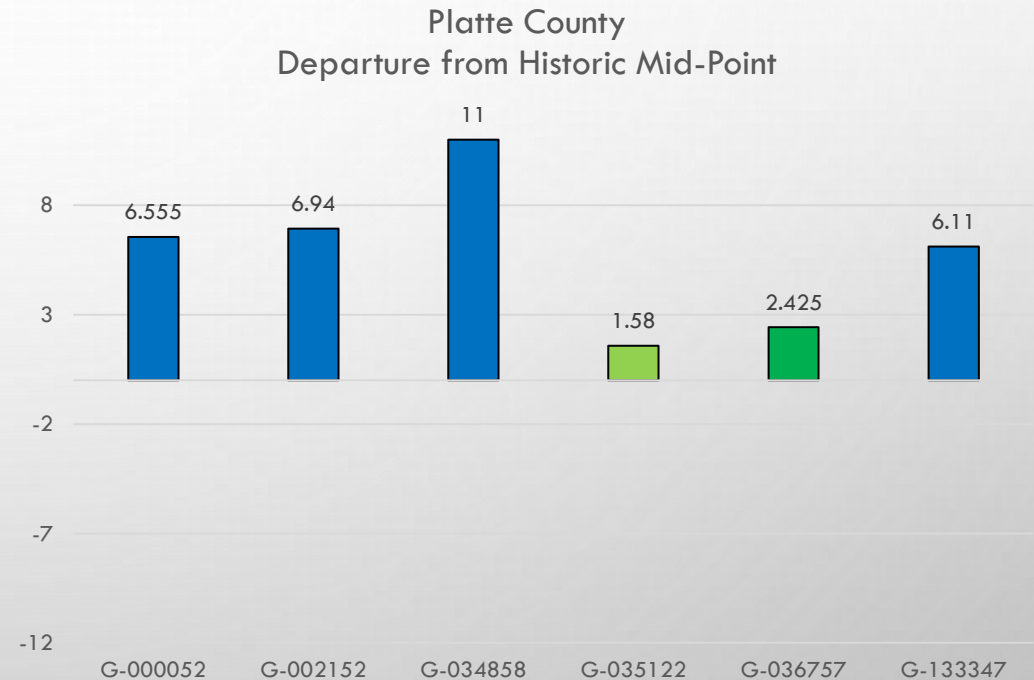
- 22 WELLS MEASURED
- 4 REMAINED UNCHANGED, 18 DECREASED
- **DECREASED** AN AVERAGE OF 1.22' FROM 2021
- WELLS ARE AN AVERAGE OF 1.92' **ABOVE** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 3.19' FROM 2020 READINGS



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PLATTE COUNTY

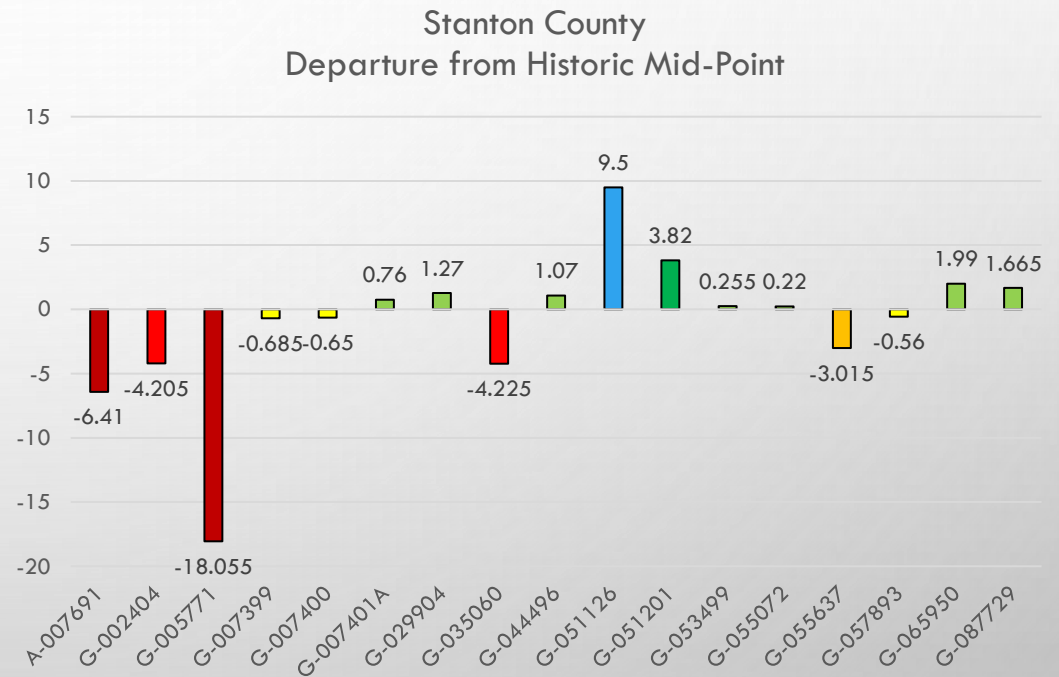
- 6 WELLS MEASURED
- 1 WELL INCREASED, 5 DECREASED
- **DECREASED** AN AVERAGE OF 0.77' FROM 2021
- WELLS ARE AN AVERAGE OF 5.77' **ABOVE** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 3.83' FROM 2020 READINGS



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STANTON COUNTY

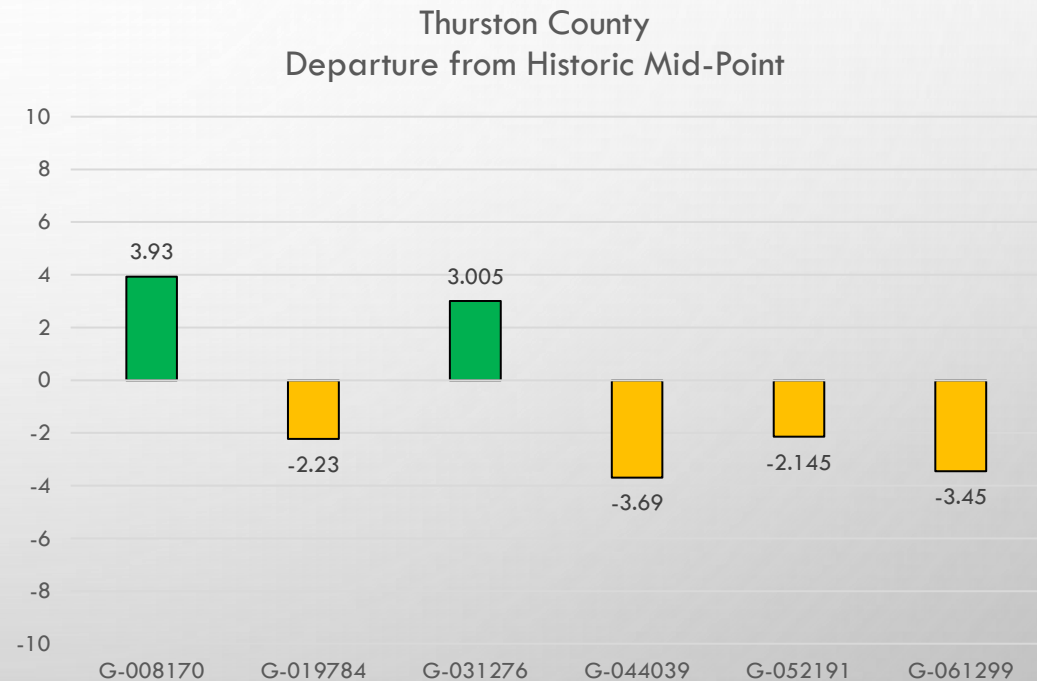
- 17 WELLS MEASURED
- 3 WELLS INCREASED, 2 REMAINED UNCHANGED, 12 DECREASED
- **DECREASED** AN AVERAGE OF 0.68' FROM 2021
- WELLS ARE AN AVERAGE OF 1.02' **BELOW** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 2.75' FROM 2020 READINGS



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THURSTON COUNTY

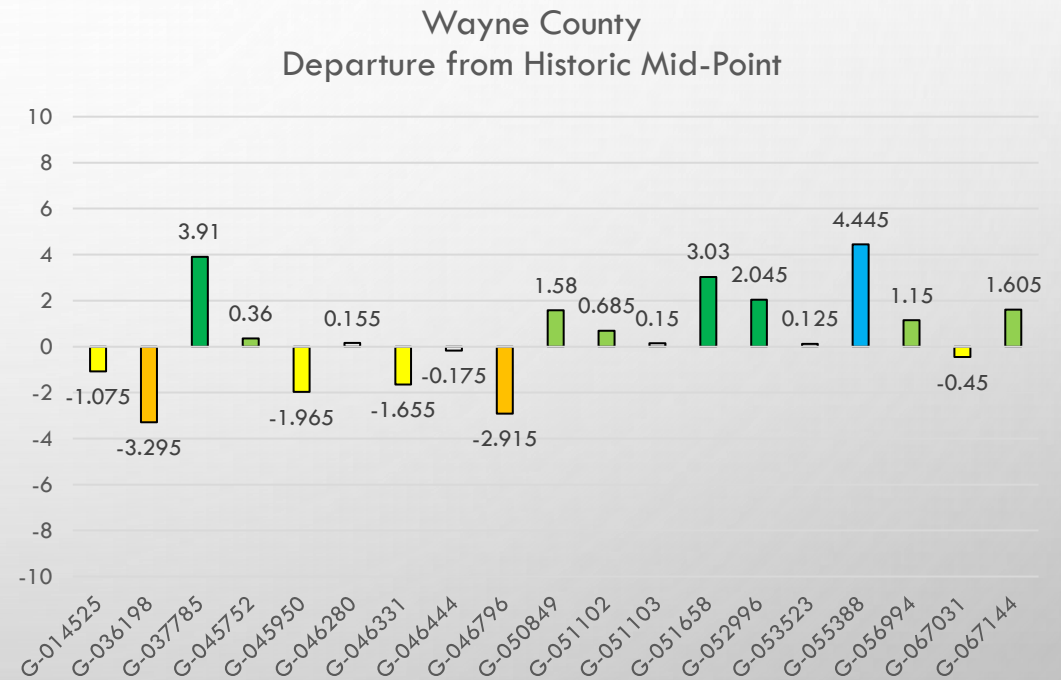
- 6 WELLS MEASURED
- ALL 6 WELLS DECREASED
- **DECREASED** AN AVERAGE OF 2.37' FROM 2021
- WELLS ARE AN AVERAGE OF 0.76' **BELOW** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 4.97' FROM 2020 READINGS



2022 SPRING STATIC WATER LEVELS

WAYNE COUNTY

- 19 WELLS MEASURED
- 3 WELLS INCREASED, 1 REMAINED UNCHANGED, 15 DECREASED
- **DECREASED** AN AVERAGE OF 0.97' FROM 2021
- WELLS ARE AN AVERAGE OF 0.41' **ABOVE** HISTORIC MID-POINTS IN 2022
- WELLS HAVE **DECREASED** AN AVERAGE OF 4.32' FROM 2020 READINGS





2022 SPRING STATIC WATER LEVELS

- QUESTIONS OR COMMENTS?
- IF YOU HAVE QUESTIONS REGARDING CERTAIN AREAS, FEEL FREE TO REACH OUT!

