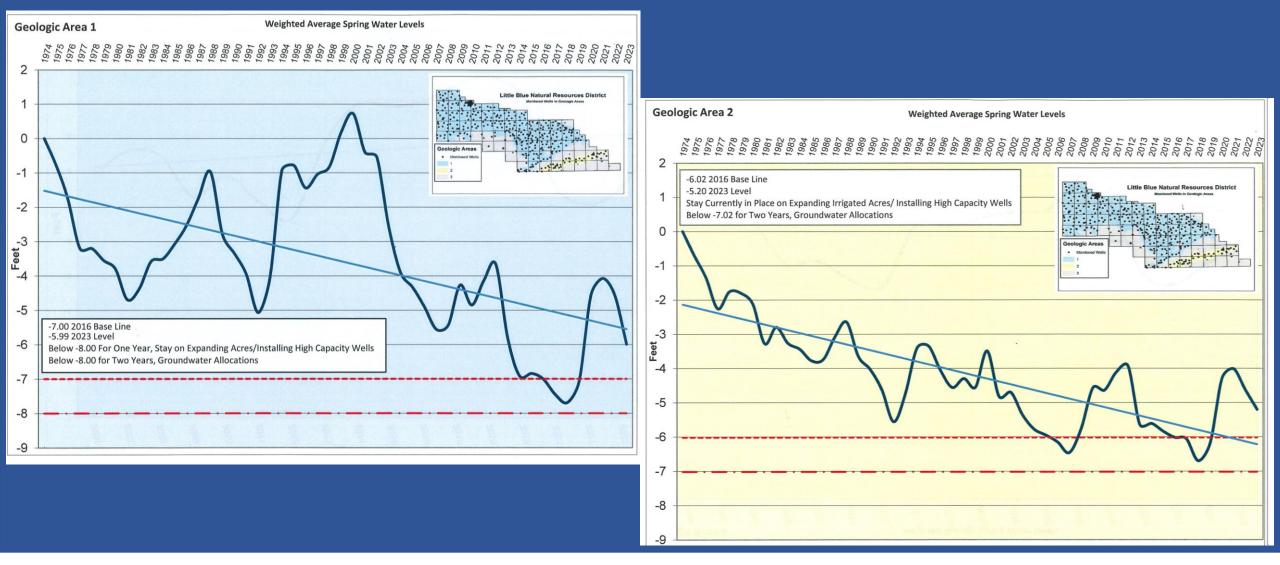
Little Blue Natural Resources District 2022 Integrated Management Plan Report

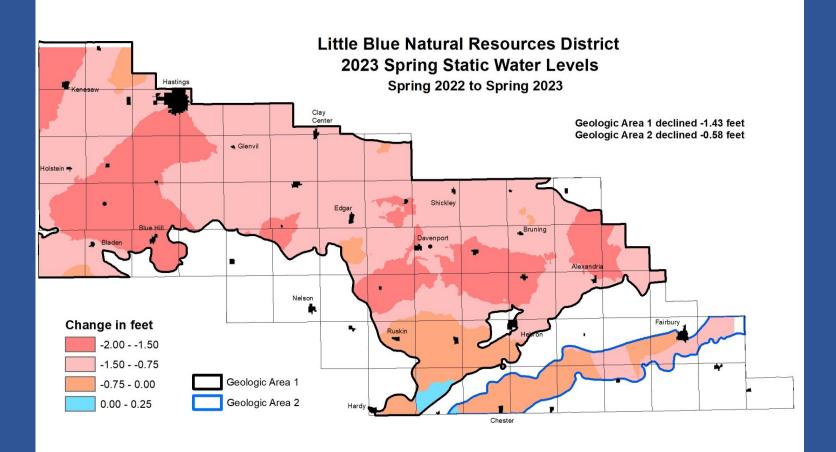
Updates for September 22, 2023



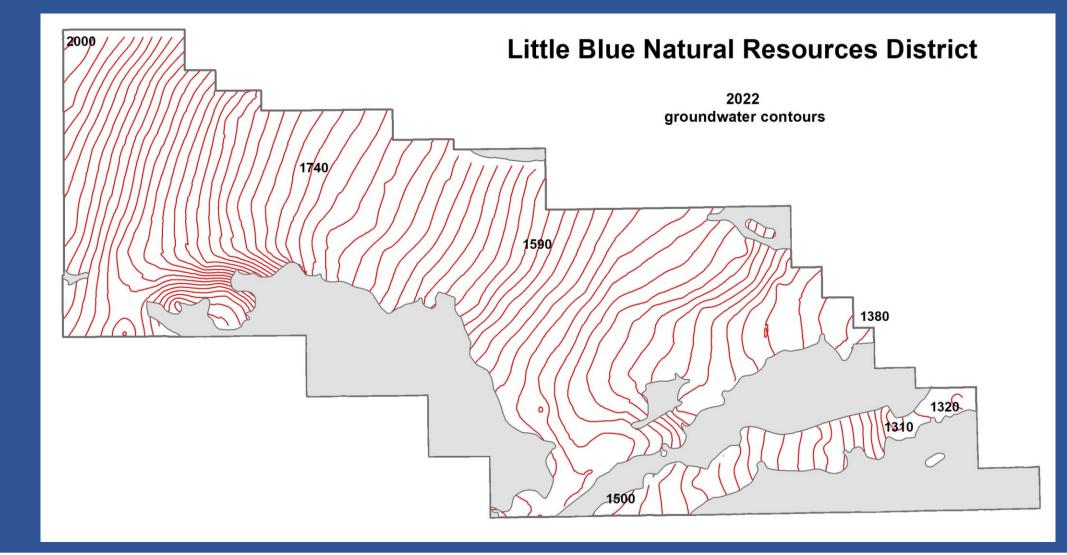




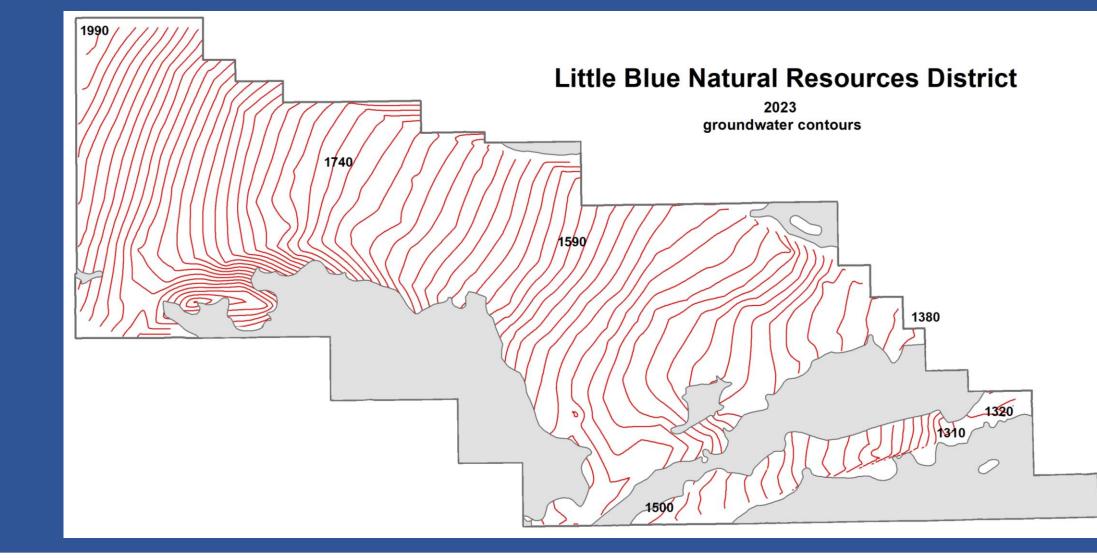
Geologic Area 1 was 2.01 feet above trigger for stay with spring 2023 measurements Geologic Area 2 was 1.82 feet above trigger for stay with spring 2023 measurements Geologic Area 1 dropped -2.03 in 2003 and -2.16 in 2013 Geologic Area 2 dropped -1.33 in 2001 and -1.71 in 2013



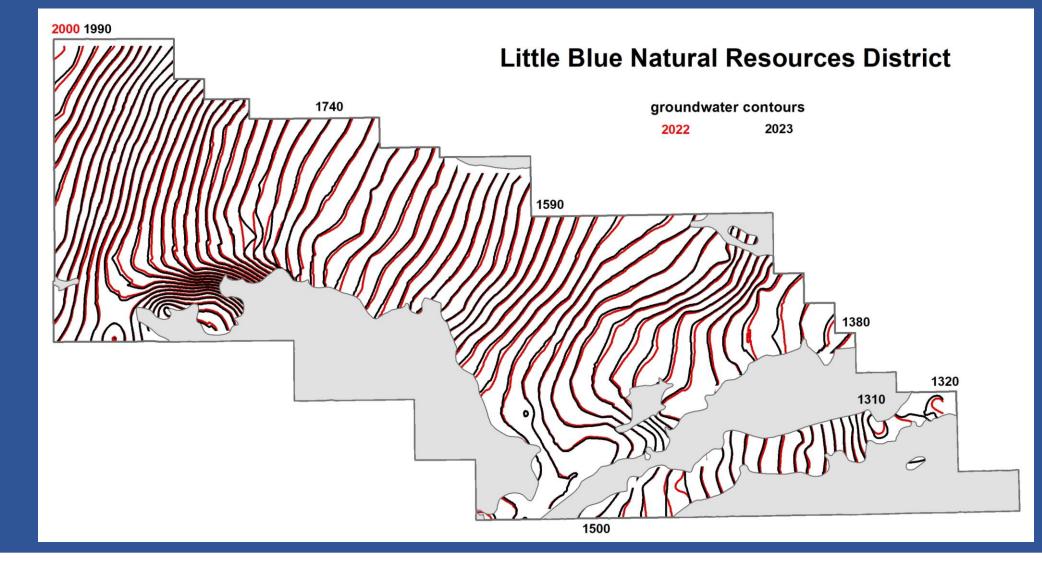




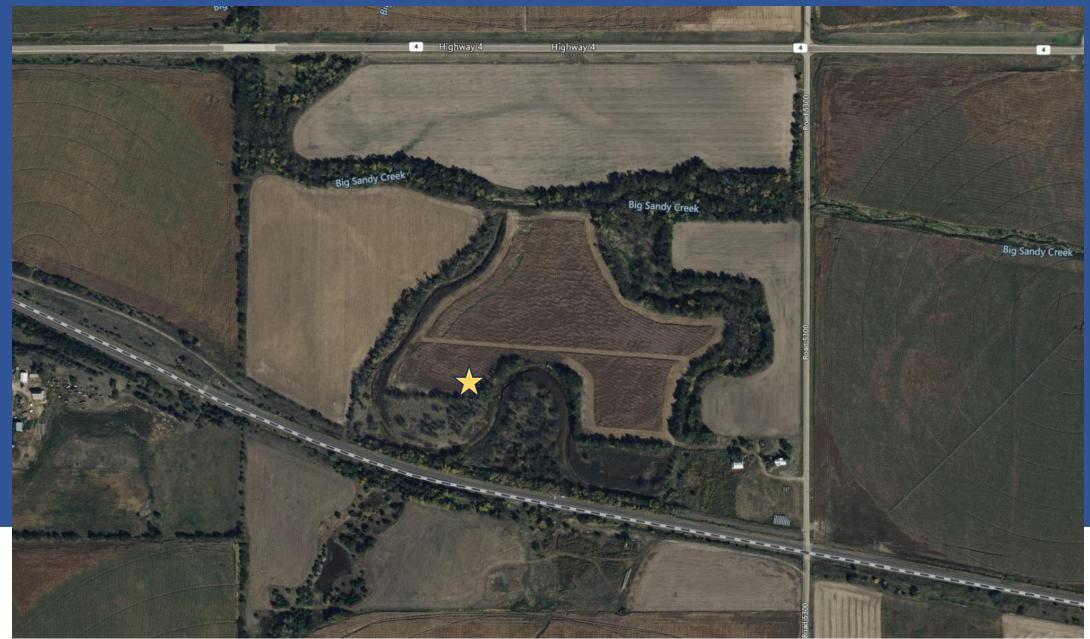




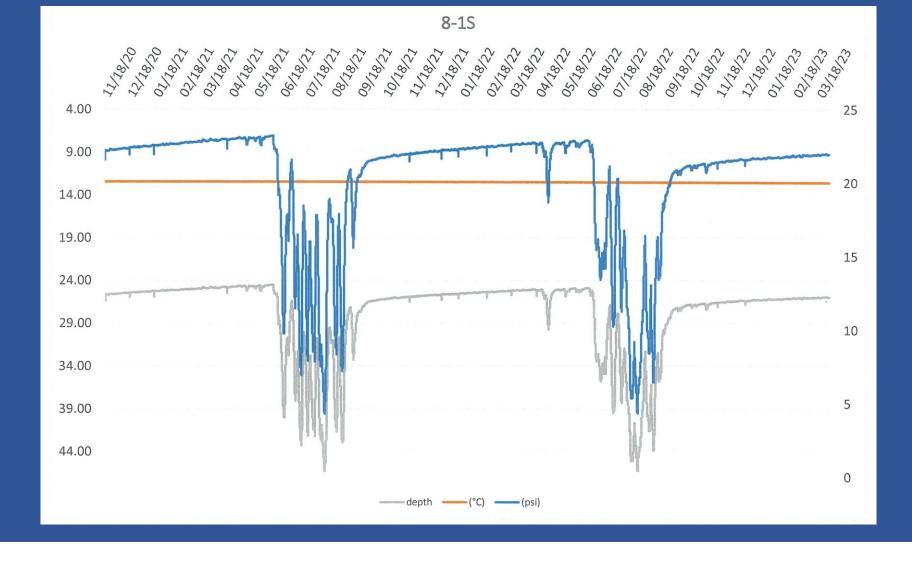












May 27, 2021 four rainfall stations in the watershed reported 1.86 to 2.23 Three days later the stream gauge at Fairbury spiked







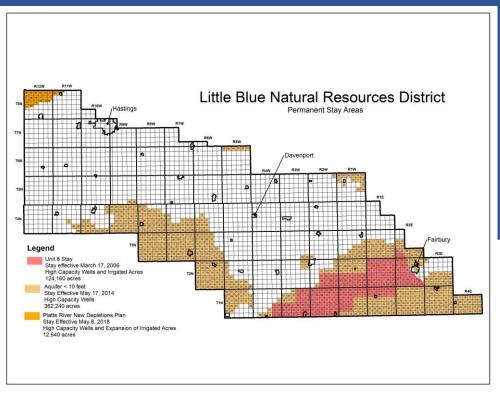
The rise for May 27 to June 6 was 0.05 of a foot

Certified Irrigated Acres

initial certification completed December 31, 2018

- 2019 636,180 acres
- 2020 653,780 acres 2.7% increase
- 2021 662,742 acres 1.3% increase
- 2022 668,248 acres 0.8% increase to September 2022
- 2023 671,404 acres 0.4% increase from September 2023





District's database has 6,483 active wells and 6,118 active flow meters

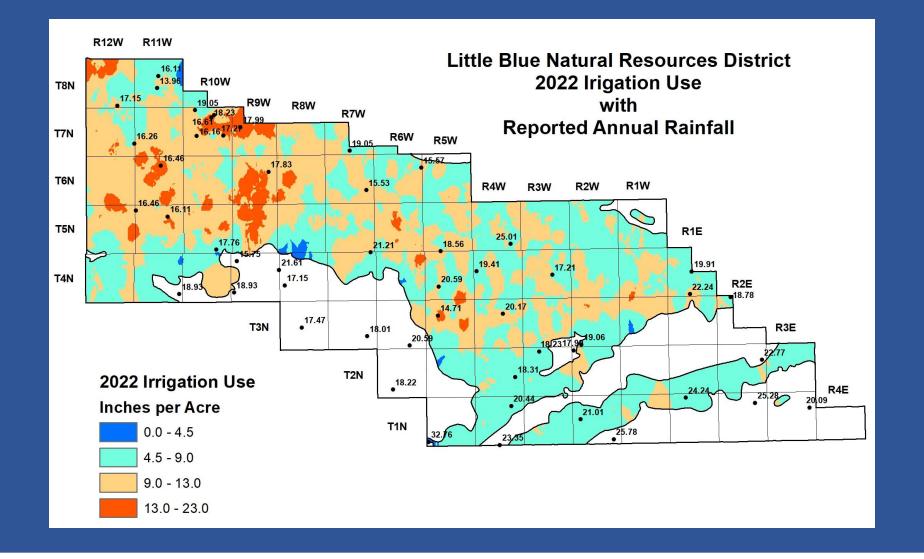
2019 - average irrigation use was 2.4 inches per acre

2020 - average irrigation use was 6.7 inches per acre

2021 - average irrigation use was 8.0 inches per acre

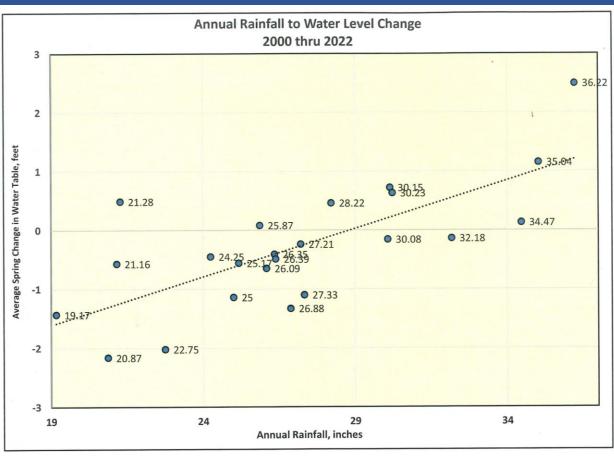
2022 - average irrigation use was 9.4 inches per acre













9.4 inches irrigation in 2022 was a 1.43 decline in 2023 19.7 inches rainfall in 2022 was a 1.43 decline in 2023

Average wildlife use was 9.7 inches per acre on 4,309 acres Average golf course use was 22.6 inches per acre on 280 acres

Filling ponds and sprayers used 441,270,310 gallons

NAD Groundwater Extraction/Treatment used 1.920 billion gallons

Water use for the municipalities and villages for:

2019 3,077,984,693

2020 3,646,231,938

2021 3,370,681,247

2022 3,665,361,948



Acres of Gravity Irrigation

2019 – 36,900

2020 - 34,534

2021 - 31,965

2022 - 28,701



Well Permits August 2021 to August 2022

35 Irrigation Wells, 9 were replacements

1 Commercial

0 Livestock

1 Municipal

Irrigation Well Permitting Process

4 required a soil conservation plan
0 required pumping test



Variances

- 1. variances to District rules are considered by the Water Resources Committee on a case-by-case basis with recommendations made to full board
- 2. variances are only considered if sent to the Committee by a board member or manager
- 0 variances were requested for 2023/2024



1. Groundwater Transfers Off Overlying Land

- 1. definition of overlying land for transfers is limited to a contiguous tract no larger than 160 acres
- 2. receiving tract can be no larger than where the transfer originates from
- 3. transfer can only be to adjacent tract of land

3 transfers were approved in 2022/2023 in Nuckolls, Thayer, and Fillmore counties

Transfers of Certified Acres

- District Rules allow for transfers of certified acres in Unit 8; however, none have been requested
- IMP details transfer in PRRIP; however, none have been requested



Questions or Comments?

