

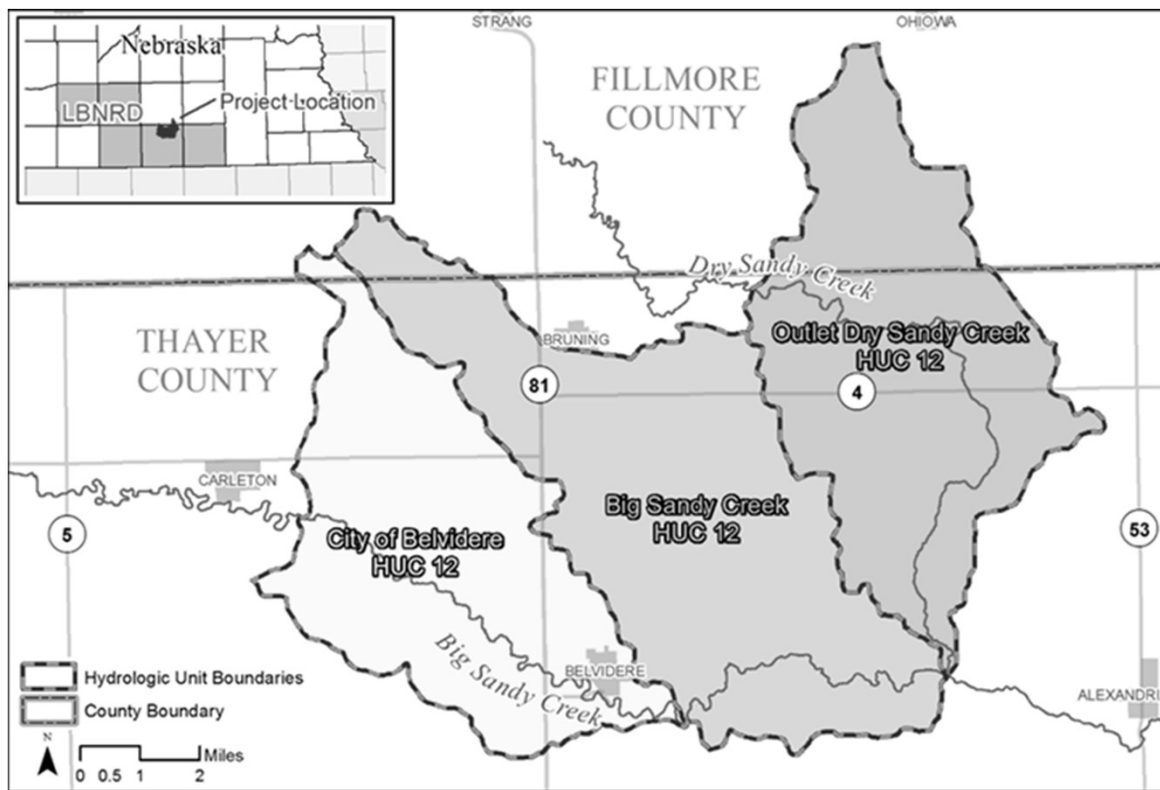
Annual Integrated Management Plan Meeting 2021

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Thank you for attending.



Basin Plan Projects



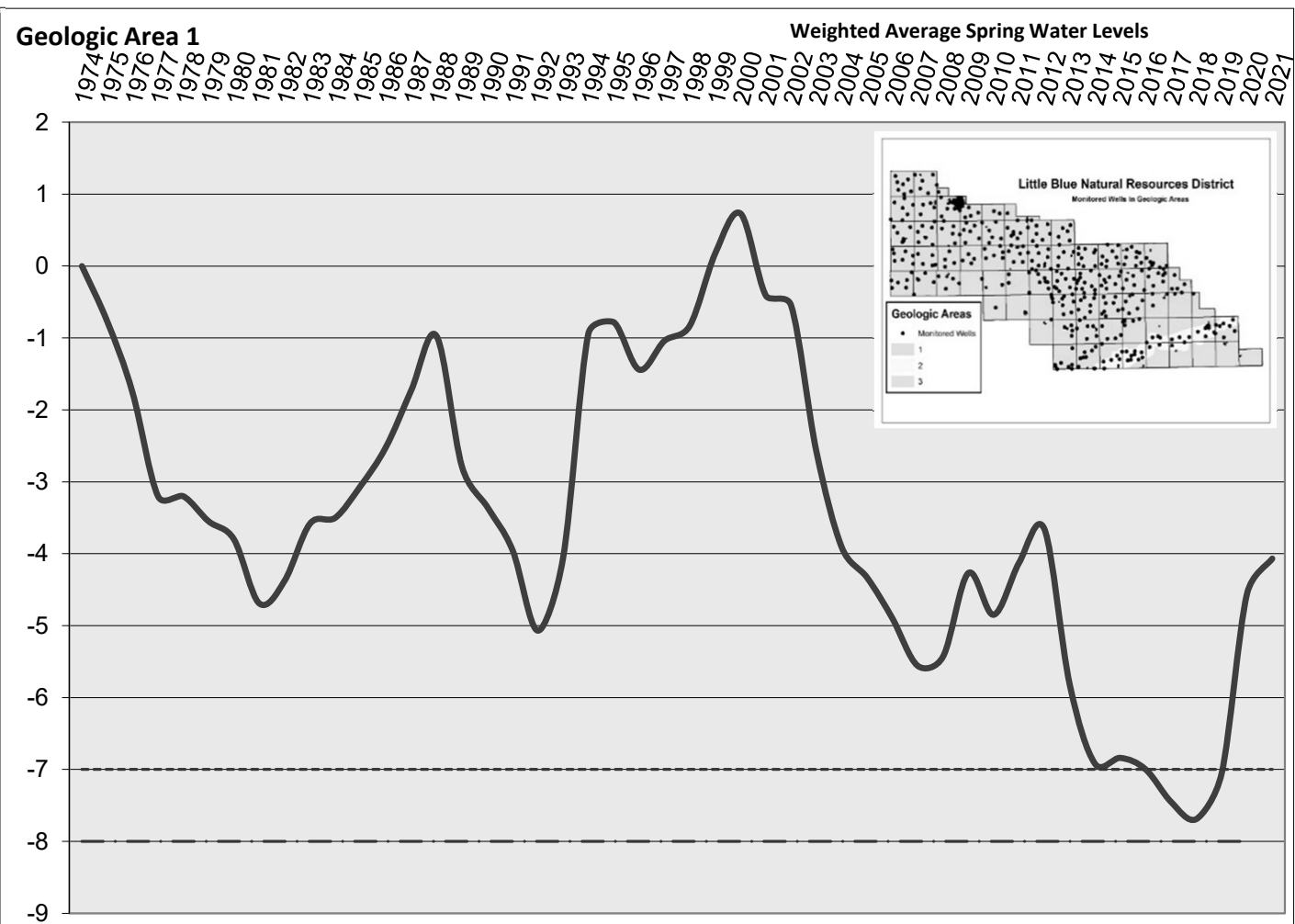
Big Sandy National Water Quality Initiative

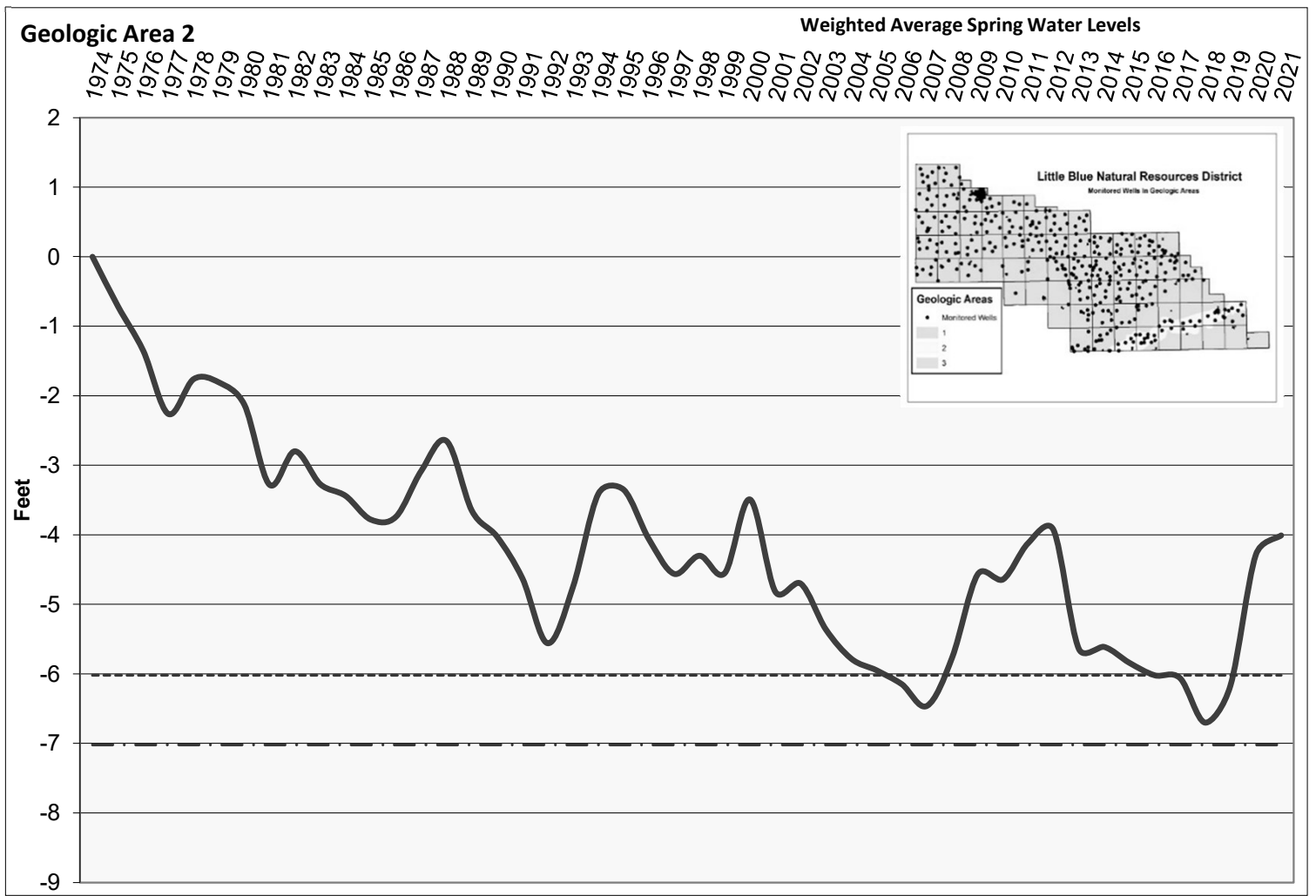
- Big Sandy Creek Watershed
 - Impaired for *E. coli* and atrazine
 - Offering incentives for pest management, buffer strips, cover crops, grazing plans
- *Applications are due in November each year*
- Interested landowners and operators should check with the NRCS office in Hebron by calling (402) 768-6520 ext. 3 to see if their farm or ranch is in the area eligible to receive Water Quality Initiative funding.

Basin Plan Projects

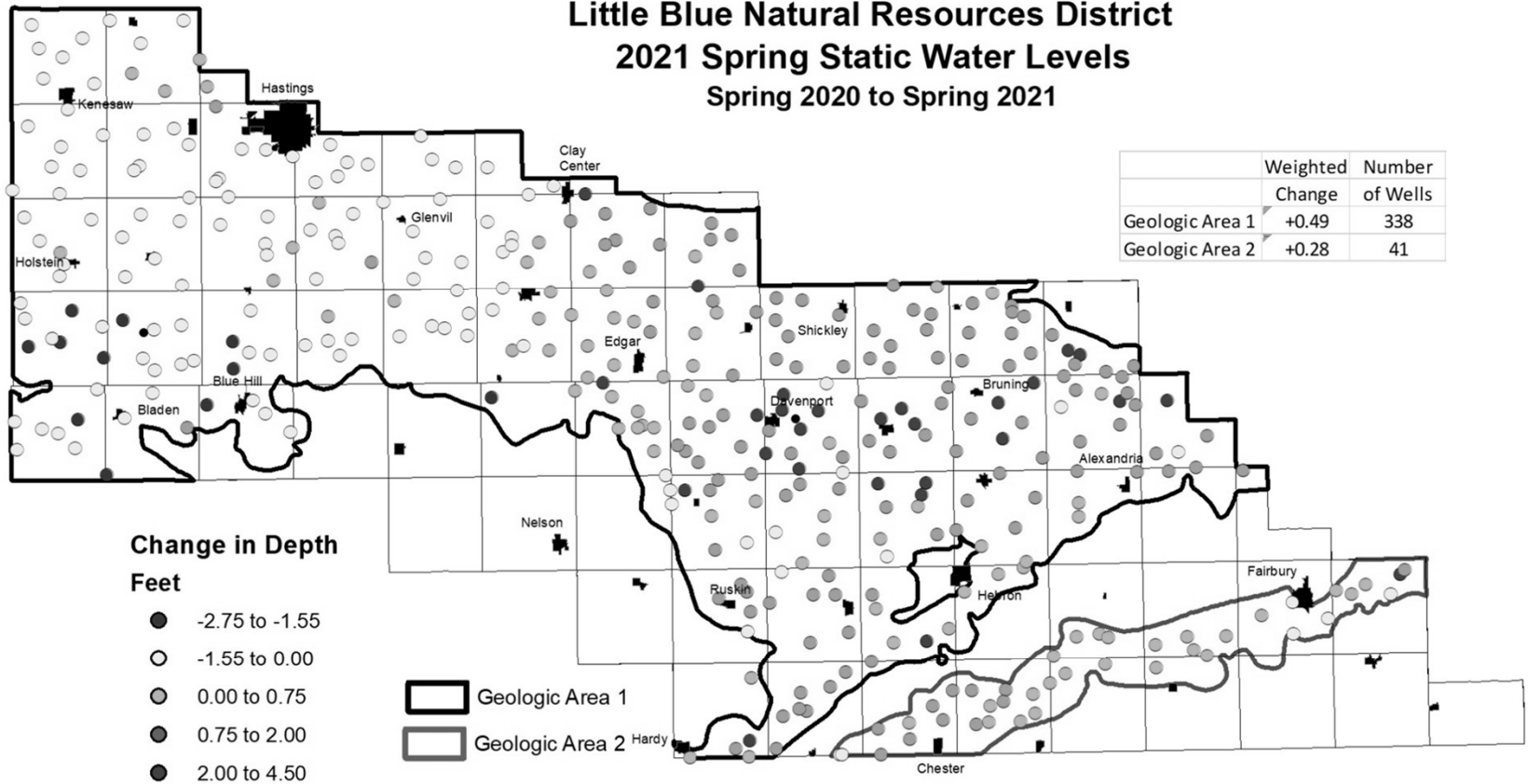
- **Nebraska Water Sustainability Fund**
- Oxbow Reconnections for Recharge
 - Divert water during high flows into Oxbow
- Targeted areas with declines and high recharge potential
- Currently we are collecting data on the water levels to see the benefits of the oxbows.



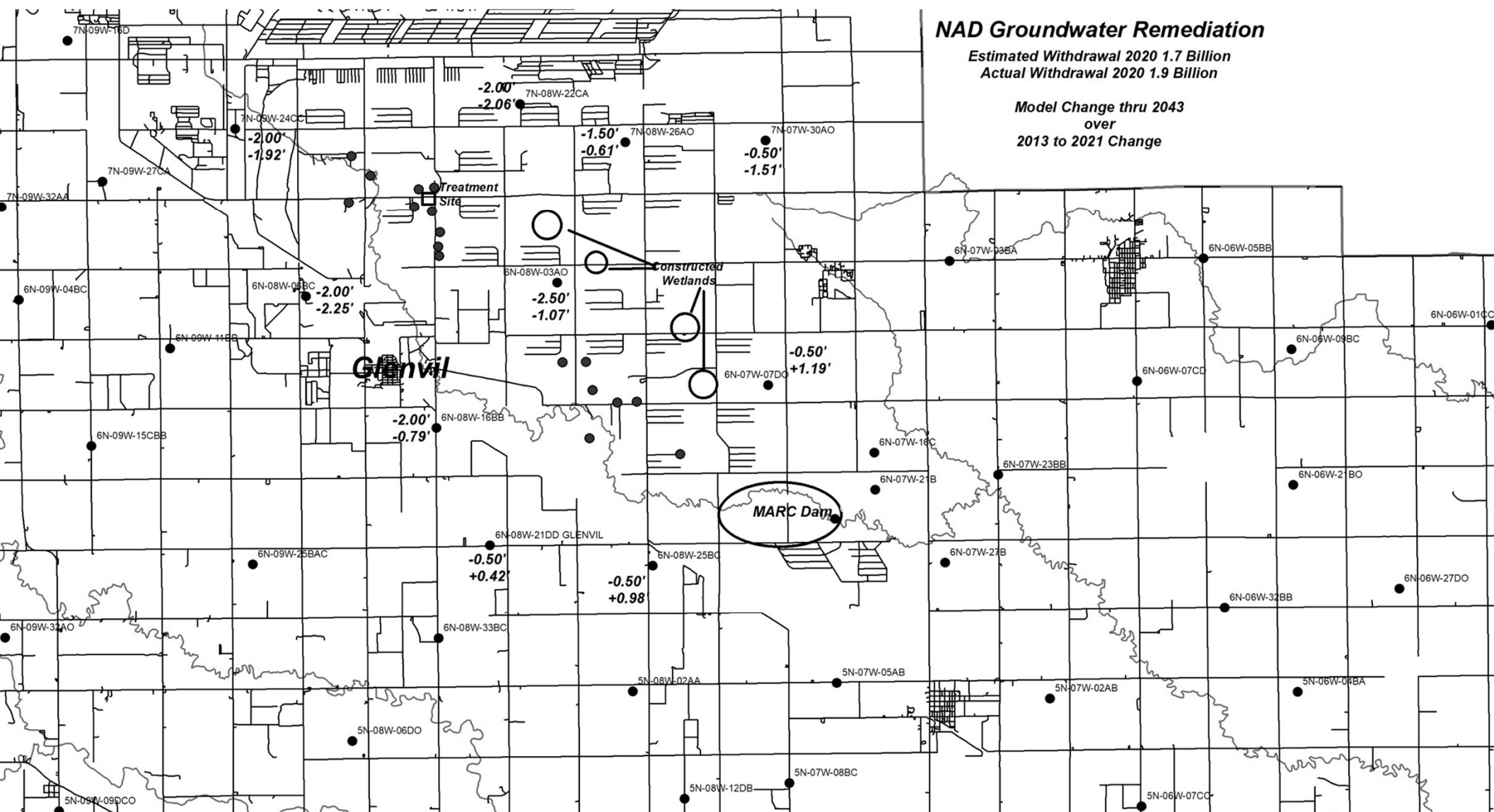




Little Blue Natural Resources District 2021 Spring Static Water Levels Spring 2020 to Spring 2021



Average Inches Applied by Year								
			All Acres	Pivot	SA Pivot	Gravity		
		2014	6.1	5.6	5.7	8.8		
		2015	7.3	6.5	6.4	11.9		
		2016	8.5	8.0	7.8	15.5		
		2017	7.5	7.2	7.0	11.5		
		2018	5.5	5.4	5.3	8.5		
		2019	2.4	2.2	2.2	3.7		
Reported Uses in 2019								
				Low	Average	High		
		PIVOT		0.0	2.2	19.1		
		SA PIVOT		0.0	2.2	10.5		
		SA PIVOT & GRAVITY		0.0	2.3	5.2		
		PIVOT & GRAVITY		0.0	2.3	6.6		
		LINEAR SPRINKLER		0.5	0.9	2.1		
		GRAVITY		0.0	3.7	30.1		
		SDI		0.0	3.0	11.2		
	2016 - 46,533 acres over 13", 8% of the reported acres							
	2017 - 27,750 acres over 13", 4% of the reported acres							
	2018 - 12,120 acres over 13", 2% of the reported acres							
	2019 - 820 acres over 13", 0.11% of the reported acres							



NITROGEN FERTILIZER RESTRICTIONS

- **Pre-plant anhydrous ammonia may not be applied prior to November 1st.**
- No nitrogen fertilizer may be applied to sand, sandy loam and loamy sand soils according to NRCS Soil Survey Soils Properties, before March 1st.
- A “Fertilizer Permit” will be required by the District prior to fertilizer applications.
- A nitrogen inhibitor will be required if applying over 20 lbs. of active actual nitrogen/acre.

MOST RECENT NITRATE-N CONCENTRATIONS

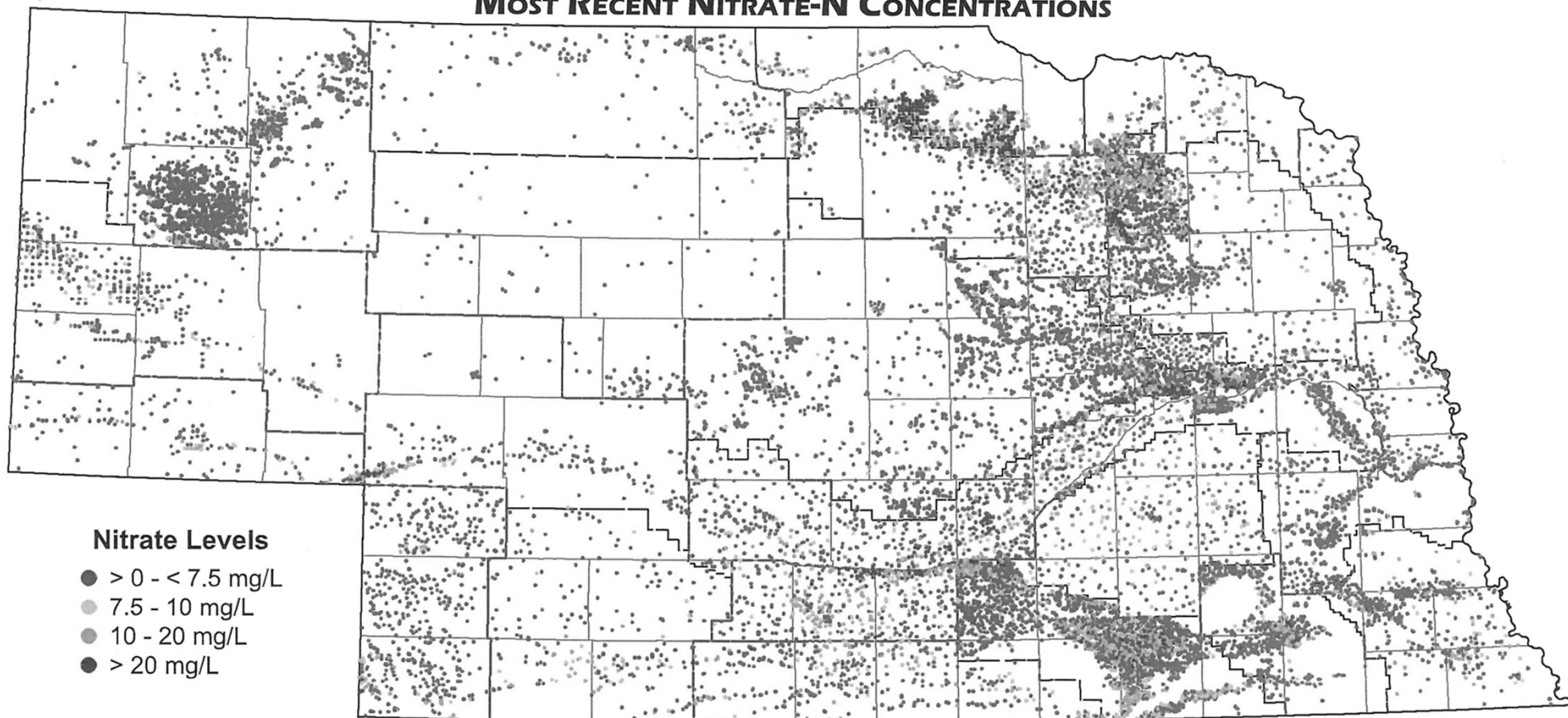
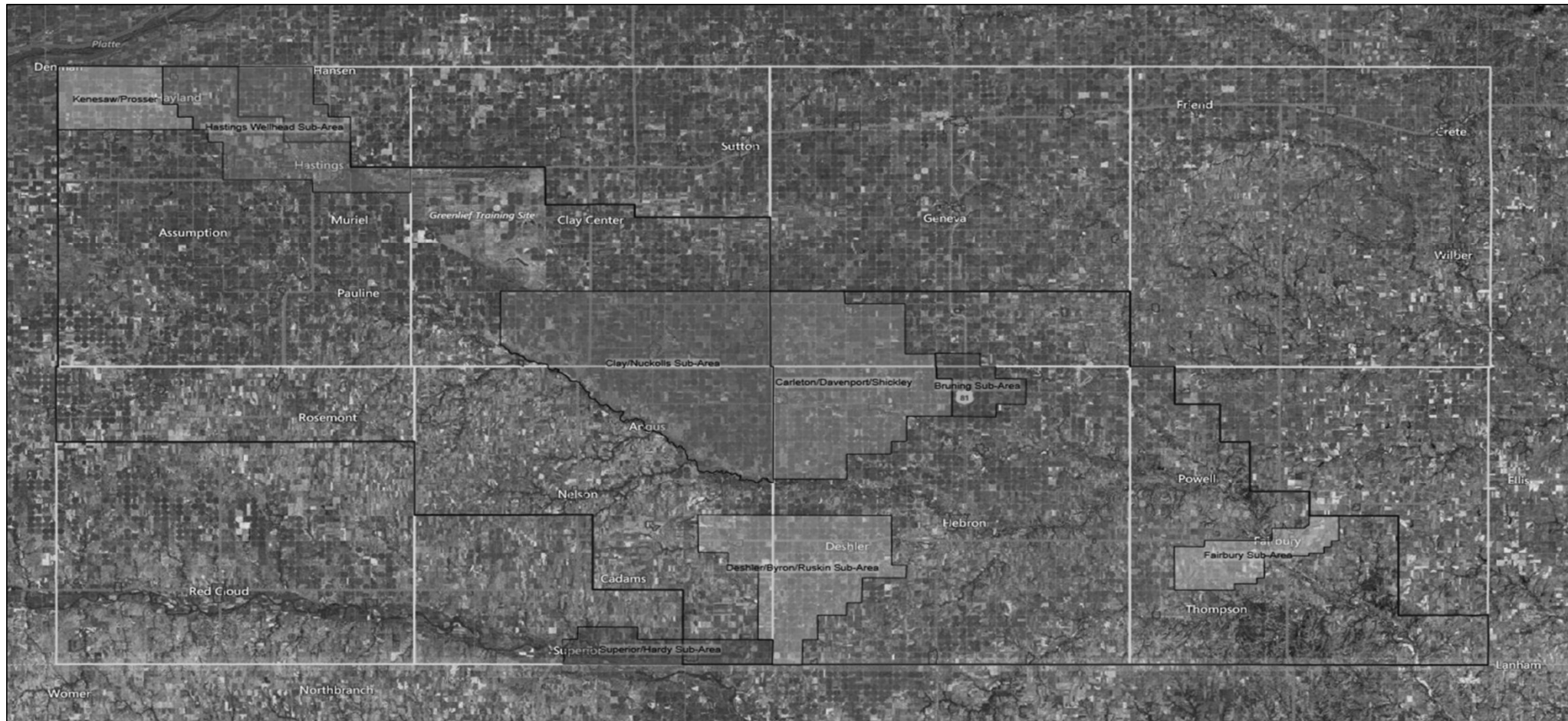
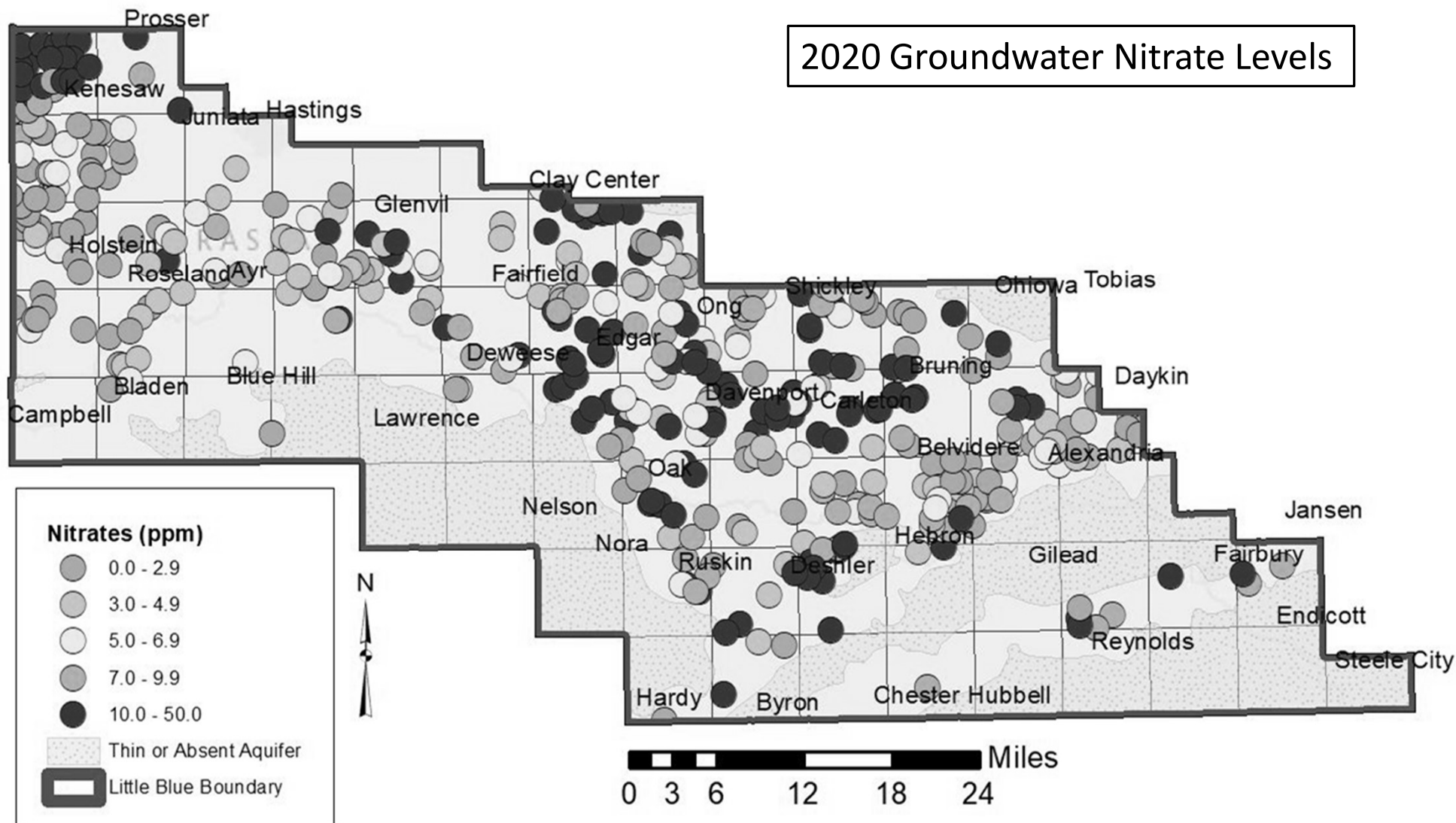


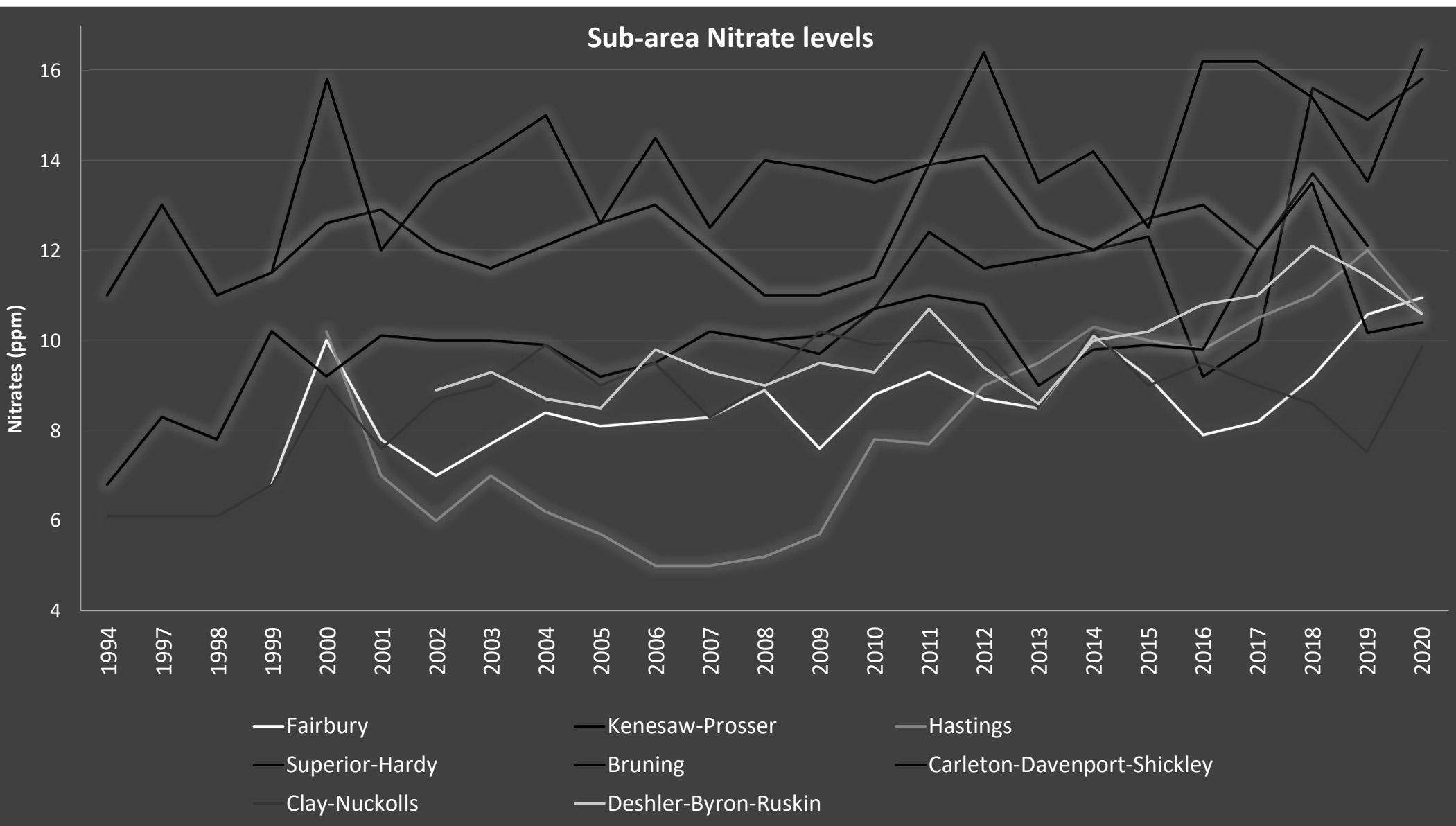
Figure 11. Most recent recorded Nitrate-N concentrations of 18,182 wells from 1998-2017.
(Source: Quality-Assessed Agrichemical Database for Nebraska Groundwater, 2018)
Empty areas indicate no data reported, not the absence of nitrate in groundwater.

Little Blue NRD District Sub-Areas



2020 Groundwater Nitrate Levels





Vadose Zone Sampling Sites 2020

Little Blue River Basin Nebraska

Figure 1 - Sampling Locations



Data Source: GIS data was obtained
from the Little Blue NRD, 2014
Date: 1/27/2015

Legend

- | | | | |
|---|--------------------------|--|-------------------------------------|
| ⊕ | Additional Sample Points | | Deshler Sub Area |
| ◆ | Original Sample Points | | Clay-Nuckolls Sub Area |
| | Superior-Hardy Sub-area | | Carlton/Davenport/Shickley Sub Area |
| | Kenesaw/Prosser Sub Area | | Bruning Sub Area |
| | Fairbury Sub-Area | | Hastings GWMA |

0 5 10 20 Miles

