

Lower Elkhorn NRD - 2025 Irrigation Development Areas

(Applications taken from October 15, 2025 through November 17, 2025)

IRRIGATION DEVELOPMENT AREAS

- ALLOW NEW DEVELOPMENT
- NO NEW DEVELOPMENT
- QUANTITY MANAGEMENT SUBAREAS
- HYDROLOGICALLY CONNECTED AREA

This geographic eligibility is a blended version of previous iterations that have been used for previous sign-up periods (2017-2021), combined with the newer composite map (2023).

The previous map (2017-2021) was produced from Non-Aquifer material thickness below the water table, Relative Transmissivity, and Net Recharge.

The composite (2023) was produced from two factors: saturated sand thickness and transmissivity (T) of the aquifer. The resulting composite shows where the aquifer has more of less potential risk based on the transmissivity along with the greatest amount of saturated sand would be most favorable.

FARM LOCATION



Produced by Mike Murphy, Lower Elkhorn NRD
October 15, 2025
Sources:
LRE Water:
Figure 1. GIS Modelled Qualitative Groundwater Resource Risk - Detailed.
Hydrogeologic Assessment of the Lower Elkhorn Natural Resources District, 2021.
The Flatwater Group, Inc.
QGIS, HydroFrameworkGrid, Updated, For Board, USING_500_AND_GREATER_7_24_19
Jenna Gable for the LRESD Hydrogeologic Framework, 2017.
Nebraska Department of Natural Resources:
Static Basemap Layers.