

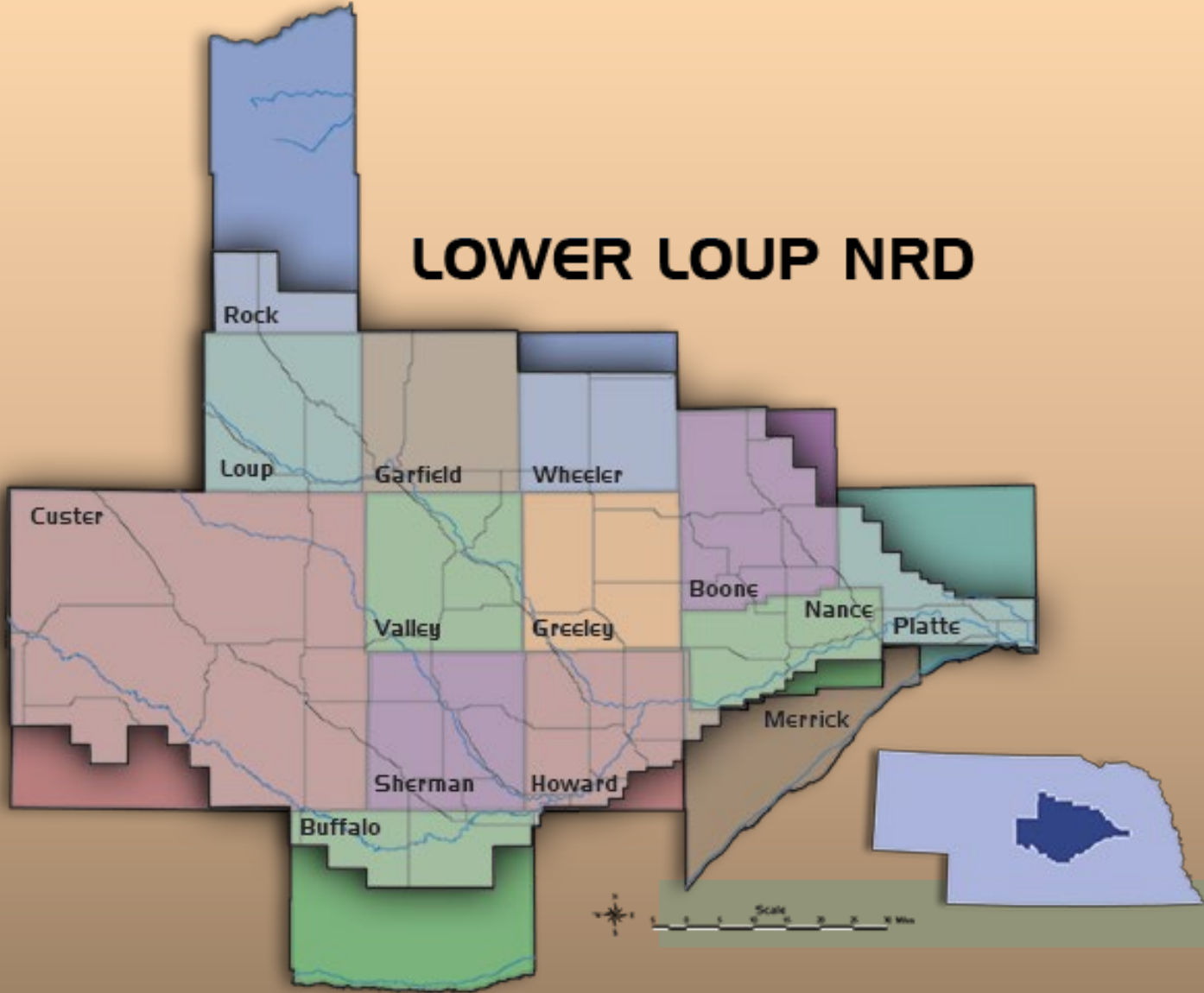
Lower Loup Natural Resources District



Groundwater Management Area Phase Rules and Regulations Summary



LOWER LOUP NRD



LLNRD Groundwater Quality Phase Area Determination

- Phase I areas are those with median nitrate levels of 0 - 6.5 ppm.
- Phase II areas are those with median nitrate levels greater than of 6.5 ppm for 4 years in a row.

LLNRD Groundwater Quality Rules and Regulations Related to Nitrogen

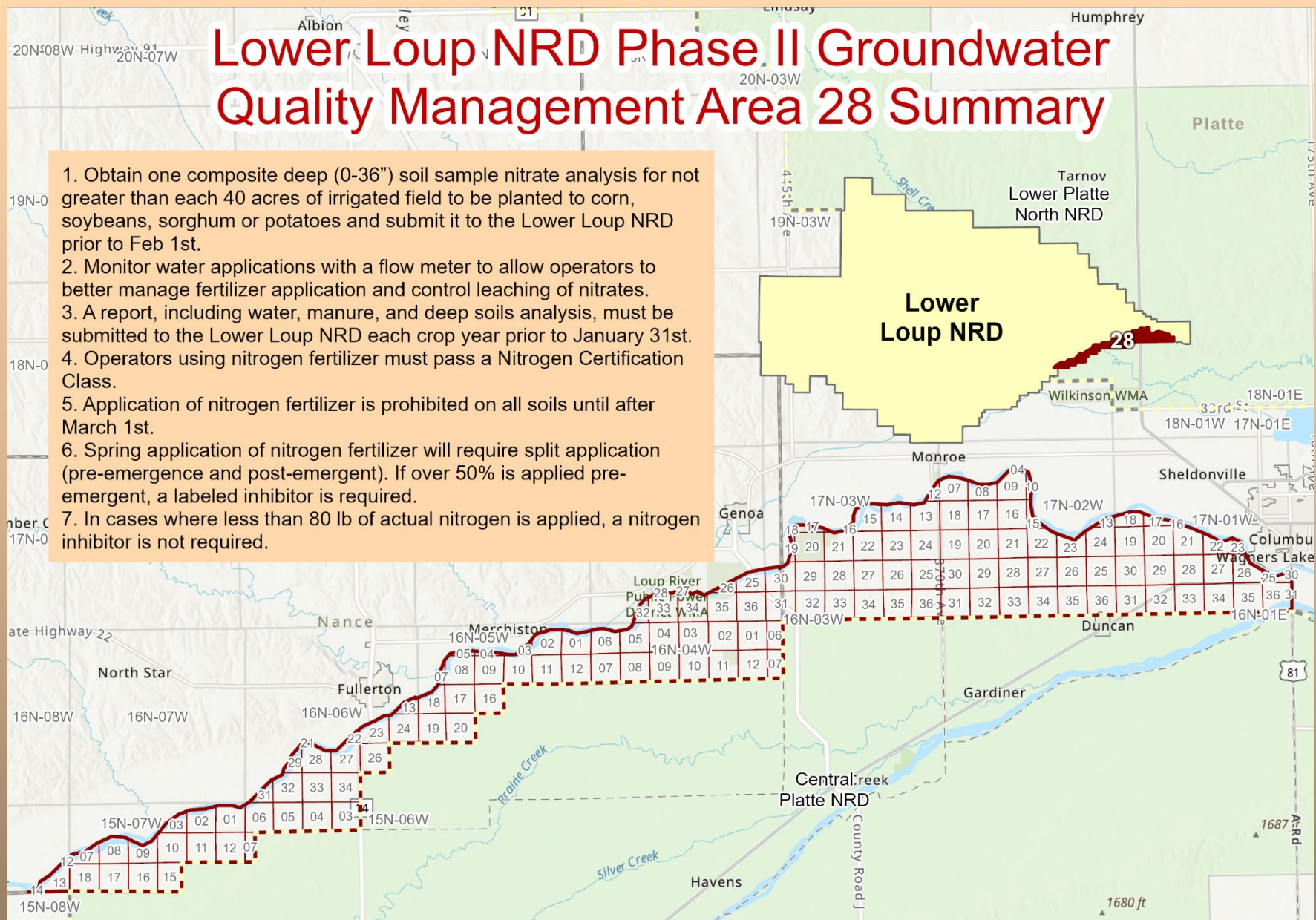
Phase I includes all the LLNRD and includes nitrogen (N) education programs.

Phase II rules include that within Phase I and for irrigated corn, grain sorghum, soybeans and potatoes –

- Yearly 0-36” soil sample, irrigation water nitrate analysis and manure analysis.
- Not applying N fertilizers until after March 1st and split application of N fertilizers before and after crop emergence unless a labeled inhibitor is used.
- Monitoring water application with a flow meter.
- Passing a certification class every 4 years.

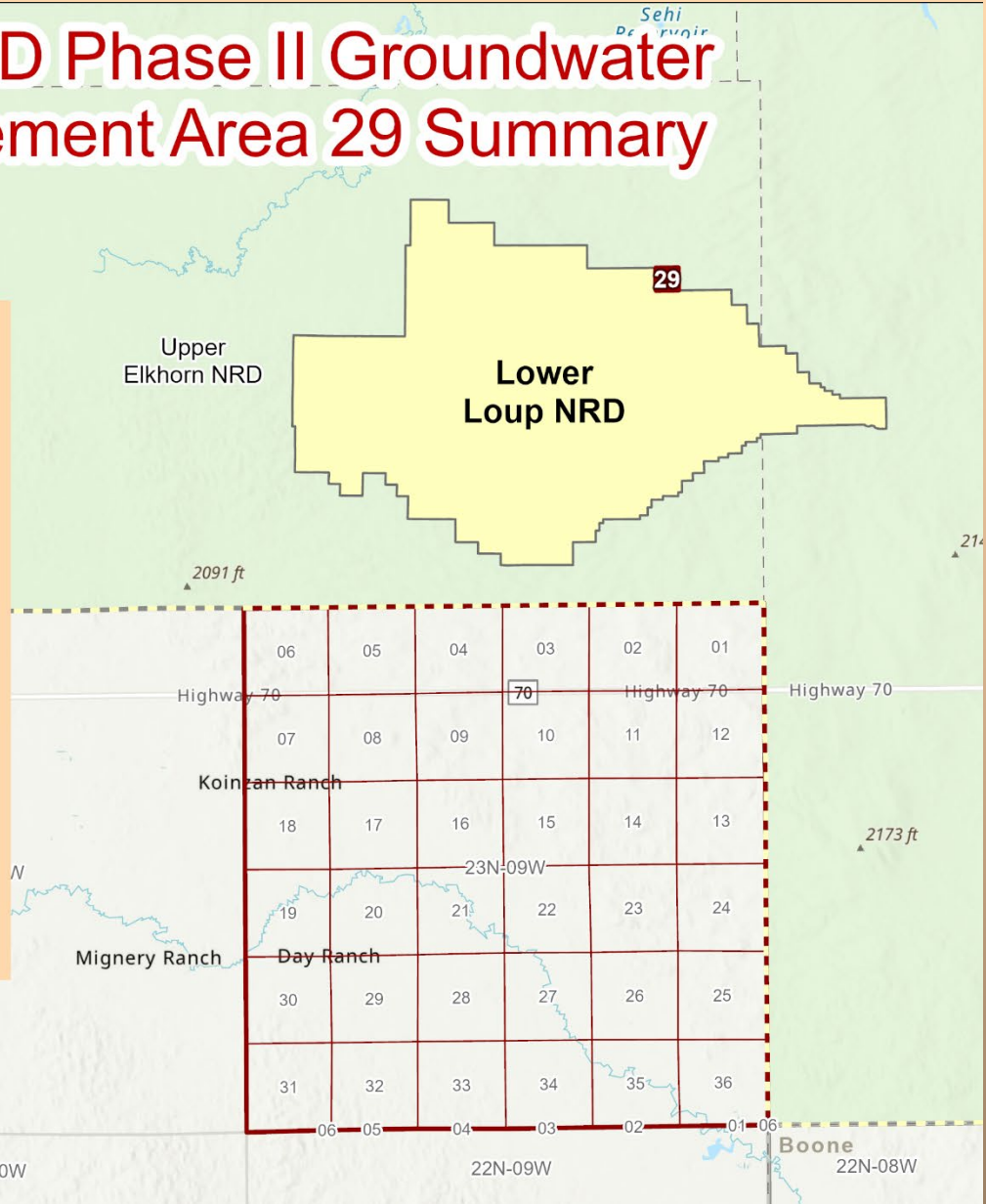
Lower Loup NRD Phase II Groundwater Quality Management Area 28 Summary

1. Obtain one composite deep (0-36") soil sample nitrate analysis for not greater than each 40 acres of irrigated field to be planted to corn, soybeans, sorghum or potatoes and submit it to the Lower Loup NRD prior to Feb 1st.
2. Monitor water applications with a flow meter to allow operators to better manage fertilizer application and control leaching of nitrates.
3. A report, including water, manure, and deep soils analysis, must be submitted to the Lower Loup NRD each crop year prior to January 31st.
4. Operators using nitrogen fertilizer must pass a Nitrogen Certification Class.
5. Application of nitrogen fertilizer is prohibited on all soils until after March 1st.
6. Spring application of nitrogen fertilizer will require split application (pre-emergence and post-emergent). If over 50% is applied pre-emergent, a labeled inhibitor is required.
7. In cases where less than 80 lb of actual nitrogen is applied, a nitrogen inhibitor is not required.



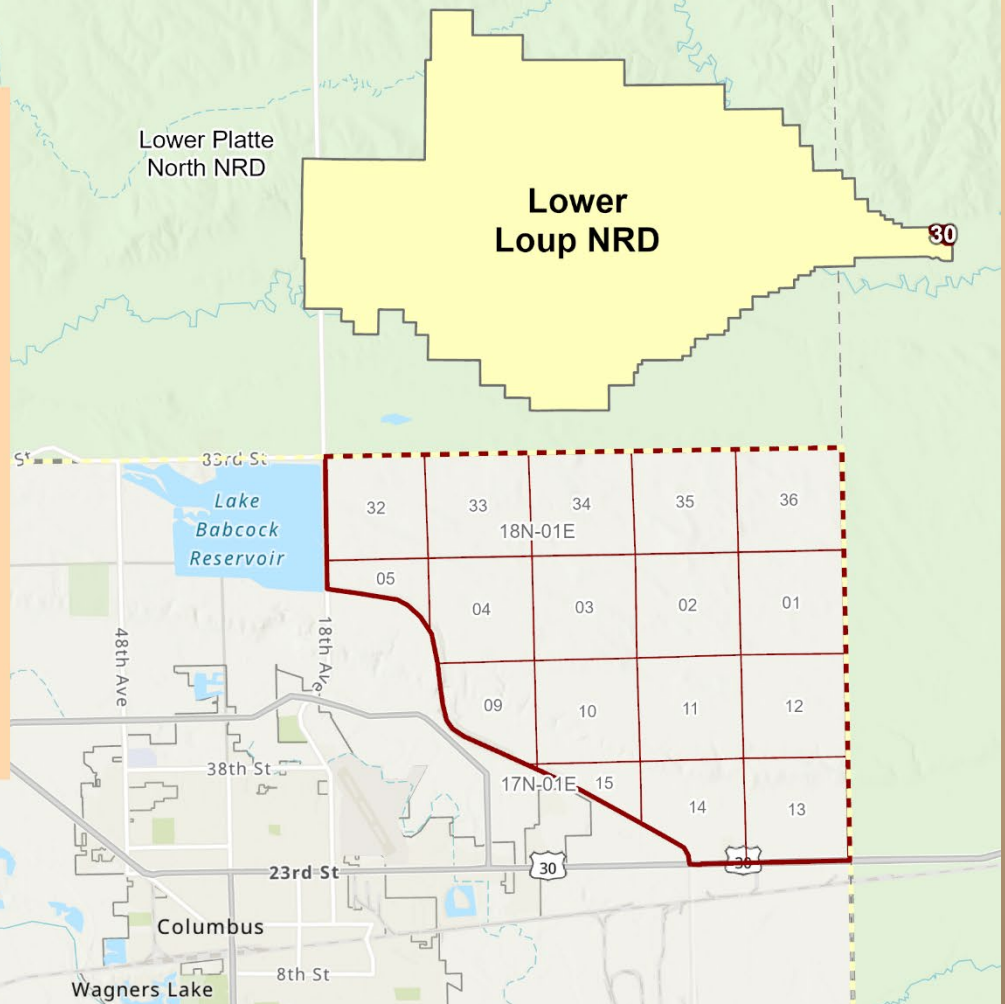
Lower Loup NRD Phase II Groundwater Quality Management Area 29 Summary

1. Obtain one composite deep (0-36") soil sample nitrate analysis for not greater than each 40 acres of irrigated field to be planted to corn, soybeans, sorghum or potatoes and submit it to the Lower Loup NRD prior to Feb 1st.
2. Monitor water applications with a flow meter to allow operators to better manage fertilizer application and control leaching of nitrates.
3. A report, including water, manure, and deep soils analysis, must be submitted to the Lower Loup NRD each crop year prior to January 31st.
4. Operators using nitrogen fertilizer must pass a Nitrogen Certification Class.
5. Application of nitrogen fertilizer is prohibited on all soils until after March 1st.
6. Spring application of nitrogen fertilizer will require split application (pre-emergence and post-emergent). If over 50% is applied pre-emergent, a labeled inhibitor is required.
7. In cases where less than 80 lb of actual nitrogen is applied, a nitrogen inhibitor is not required.



Lower Loup NRD Phase II Groundwater Quality Management Area 30 Summary

1. Obtain one composite deep (0-36") soil sample nitrate analysis for not greater than each 40 acres of irrigated field to be planted to corn, soybeans, sorghum or potatoes and submit it to the Lower Loup NRD prior to Feb 1st.
2. Monitor water applications with a flow meter to allow operators to better manage fertilizer application and control leaching of nitrates.
3. A report, including water, manure, and deep soils analysis, must be submitted to the Lower Loup NRD each crop year prior to January 31st.
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LLNRD Area Median Nitrates

Use the link below to view the most current median nitrate levels for individual water quality areas.

<https://www.llnrd.org/assets/site/media/FinalWQGRaphs2022.pdf>