



### Sub-Area Rules for Bruning Water Quality Sub-Area

1. All operators must attend nitrogen and or irrigation management training workshops every 4 years.
2. Increase information and education efforts for the target area.
3. Provide one on one assistance to operators (as available).
4. Provide or secure through outside sources, funding for short term incentive programs to encourage producers to adopt BMP's.
5. The operators/owners are responsible for providing assistance in our groundwater protection activities in the following ways:

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1. Encourage a water analysis for nitrogen (NO<sub>3</sub>-N) content on each field growing corn, grain sorghum, or forage sorghums. The water sample can be tested at the LBNRD office.
2. **Annual soil samples are required on all fields.**
  - A. Soil sampling rules:
    1. One shallow composite sampling on the field according to number 2 below to a minimum depth of 8 inches will be required annually per 40 acres and,
    2. One deep soil composite sampling is required on the field according to number 2 below with a minimum depth of 36 inches per 40 acres.
  - B. Each sampled area shall be no larger than 40 acres, preferably no larger than 20 acres. A soil sample shall consist of a composite surface sample from 15 – 20 cores collected to a depth of 8 inches, mixed to create a single sample and analyzed for general fertility and nitrate – N; and a subsurface sample from 6 – 8 cores to a depth of 36 inches shall be mixed and analyzed for nitrate – N.
  - C. Deep soil sampling exemptions will be given for corn-soybeans rotations in accordance with NRD or UNL Extension guidelines.
3. Require operator adherence to the “NRD Approved” laboratory fertilizer recommendations.
4. Irrigation Scheduling is required on all irrigated fields.
5. Require year-end annual reports on all fields tailored to crop and farming practices of the landowner/operator. **Reports are due April 1st of each year for all fields.**