



**Air Quality Enhancement Activity – AIR08 – Nitrification inhibitors or urease inhibitors**

**State Criteria (same as NATIONAL CRITERIA)**

**Additional Criteria for Nebraska**

- Use either a nitrification inhibitor and/or a urease inhibitor product (depending upon the type of nitrogen fertilizer used) that is recommended by the University of Nebraska (UNL) for the soils on the treatment area. Example compounds include:
  - Nitrification Inhibitors – nitrapyrin, dicyandiamide (DCD)
  - Urease Inhibitors – N-(n-butyl) thiophosphoric triamide (NBPT)
  - For other compounds check with the NRCS State Agronomist or State Water Quality Specialist.
- Nutrient application rates are within University of Nebraska recommendations based on soil tests and established yield goals considering all nutrient sources (refer to Practice Standard [590](#) and Practice Specification ([S-590](#)) for Nutrient Management).
- Apply the nitrification or urease inhibitor according to manufacture recommended rates.
- The nutrient application rate must take in account the additional nitrogen that will remain available to the plant due to inhibition of nitrification processes.
- Soils shall be sampled and analyzed in accordance with Practice Specification for Nutrient Management (S-590) or NebGuide “Guidelines for Soil Sampling” ([G1740](#)).
- All soil samples must be taken prior to applying fertilizer or manure.
- Manure shall be sampled and analyzed annually in accordance with Practice Standard 633 – Waste Utilization NebGuide “Sampling Manure for Nutrient Analysis: ([G1450](#)), and NebGuide “Manure Testing: What to Request” ([G1780](#)).
- Use of nitrification inhibitor must not increase soil surface disturbance.

**Documentation Requirements (SEE NATIONAL ENHANCEMENT ACTIVITY JOBSHEET)**

**Additional State Documentation Requirements**

1. Provide copies of soil test results.
2. Copies of dated receipts for equipment or services purchased.
3. Complete the table on the following page.
4. Complete the Fertilizer Equipment Calibration Information on the following table.

Type of Equipment	Date of Calibration
<i>EXAMPLE 1 Spread-All (16 ton)</i>	<i>11/29/11</i>
<i>EXAMPLE Anhydrous Ammonia Injector Tanker</i>	<i>3/29/12</i>

**I certify that the enhancement criteria have been met and the required documentation provided to NRCS.**

**Certified by:** \_\_\_\_\_ **Date:** \_\_\_\_\_



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Field	Planned Crop, Projected Planting Date & Yield Goal	Actual Crop Planted, Date Planted & Measured Yield	Commercial Fertilizer and Manure Information									
			Date Fertilizer / Manure Applied (m/d/yr)	Date N-Inhibitor Applied (m/d/yr)	Form of Commercial Fert. or Manure	Rate (lb/a)	Application Method	If Manure, Days to Incorporate	N Avail. (lb/a)	P Avail. (lb/a)	Total N Avail. (lb/a)	Total P Avail. (lb/a)
T1234, F1 & 78.9	Corn 4/28/12 200 bu/a	Corn 4/30/12 212 bu/a	3/30/12	3/30/10	82-0-0	100 lb	Inject		82		187	100
			4/30/12		28-0-0	10 gal.	At planting		30			
			11/30/11		Beef Solids	16 t/a	Broadcast		75	100		



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## REFERENCES

590 Standard	590 – Nutrient Management <a href="http://efotg.sc.egov.usda.gov/references/public/NE/NE590.pdf">http://efotg.sc.egov.usda.gov/references/public/NE/NE590.pdf</a>
590 Specifications	(S-590) – Nutrient Management <a href="http://efotg.sc.egov.usda.gov/references/public/NE/NE590s.pdf">http://efotg.sc.egov.usda.gov/references/public/NE/NE590s.pdf</a>
633 Standard	633 – Waste Utilization <a href="http://efotg.sc.egov.usda.gov/references/public/NE/NE633.pdf">http://efotg.sc.egov.usda.gov/references/public/NE/NE633.pdf</a>
G1450	NebGuide “Sampling Manure for Nutrient Analysis” (G1450) <a href="http://water.unl.edu/web/manure/publications">http://water.unl.edu/web/manure/publications</a>
G1740	Guidelines for Soil Sampling” (G1740) <a href="http://water.unl.edu/web/manure/publications">http://water.unl.edu/web/manure/publications</a>
G1780	NebGuide “Manure Testing: What to Request” (G1780). <a href="http://water.unl.edu/web/manure/publications">http://water.unl.edu/web/manure/publications</a>