

Proposed Changes to  
RULE 5 – UPPER BIG BLUE NATURAL RESOURCES DISTRICT GROUNDWATER  
MANAGEMENT RULES AND REGULATIONS  
August 2019

CHAPTER 4 - DEFINITIONS

27 Nitrification Inhibitor –

Nitrification inhibitor means a chemical compound used to slow the nitrification of ammonia, ammonium-containing, or urea-containing fertilizers, which are applied to soil as fertilizers. These inhibitors can help reduce losses of nitrogen in soil that would otherwise be used by crops. For the purpose these regulations a nitrification inhibitor must include one of the following chemical compounds, Nitrotyrin, Pronitridine, or Dicyandiamide. Common products containing one of the listed products include N-Serve<sup>®</sup>, Instinct<sup>®</sup>, Centuro<sup>®</sup>, Gardian<sup>®</sup>, Agrotain Plus<sup>®</sup>, and SuperU<sup>®</sup>.

27.01 Nitrification inhibitors must be approved by the Board. A manufacturer desiring approval for a product that is not included in paragraph 27 must provide the following information by July 1<sup>st</sup>.

27.01a A listing of the product's chemical composition.

27.01b Independent research showing the effectiveness of the product to inhibit nitrate leaching.

27.01c The product label specifying the recommended application rate.

27.02 Requests for addition the approved nitrification inhibitors will be considered by the board annually.

35 Split Application means –

The application of part of the nitrogen fertilizer need for a crop prior to planting of the crop and the remaining nitrogen fertilizer needed after planting of the crop.

CHAPTER 18 – PHASE I REQUIREMENTS

04 Approved Nitrification Inhibitor Required –

An approved nitrification inhibitor must be applied at the manufacturer's recommended rate with pre-plant nitrogen fertilizer in the following situations.

04.01 The application of anhydrous ammonia prior to March 1.

- 04.02 The application of all nitrogen fertilizers other than anhydrous ammonia after February 29<sup>th</sup>.

## CHAPTER 20 – PHASE II REQUIREMENTS

### 05 Split Application –

Pre-plant application of nitrogen fertilizer shall not exceed 120 lbs. per acre.

- 05.01 The remaining nitrogen fertilizer may be applied post plant.

### 07 Phase II annual reporting required –

Prior to applying nitrogen fertilizer, but no later than April 1 of each year, each Operator in the Management Area is required to report information regarding the use of best management practices. The report must include the following information:

- 07.01 The nitrogen application rate must be calculated for each irrigated field where corn is grown. Calculations shall be based on University of Nebraska recommended procedures and must account for soil analysis and all other nitrogen credits.
  - 08.01a Nitrogen credits include, but are not limited to
  - 08.01b Irrigation water nitrates (if known)
  - 08.01c Previous crops
  - 08.01d Livestock, municipal and industrial waste
  - 08.01e Other information deemed necessary by the District
- 07.02 A copy of the soil sample results, the receipts for nitrification inhibitor purchased, and the previous year irrigation scheduling information must accompany the annual report.