Limus®
Nitrogen Management

Enhanced Nitrogen Use Efficiency with Limus® Nitrogen Management

Benefits of Limus Nitrogen Management

For the 2015
Growing Season

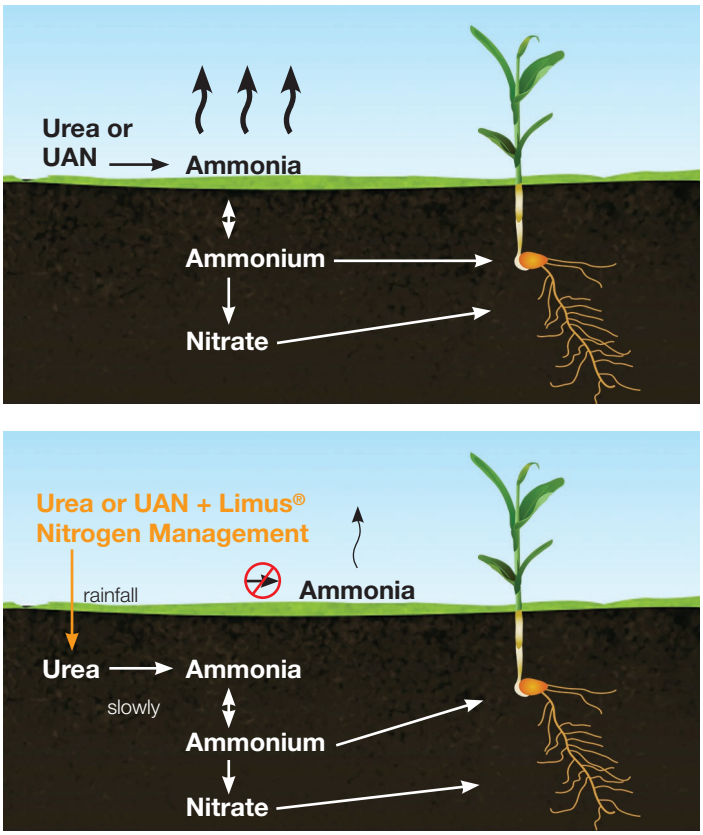
- Protection against loss of nitrogen, the most important element for plant development
- Optimal nitrogen availability during critical crop growth stages for more consistent yield
- Increased options for timing of nitrogen applications in your management system

Limus nitrogen management is a new product in nutrient management from BASF that protects urea and UAN fertilizers from ammonia volatilization. Limus nitrogen management contains a patented combination of two inhibitors; NBPT, the market standard, and NPPT, a new molecule from BASF, that together are more effective on the range of enzymes than a single inhibitor. This new technology builds on BASF's strong fertilizer history going back to the first synthesis of ammonia in 1913.

Technical Information Bulletin

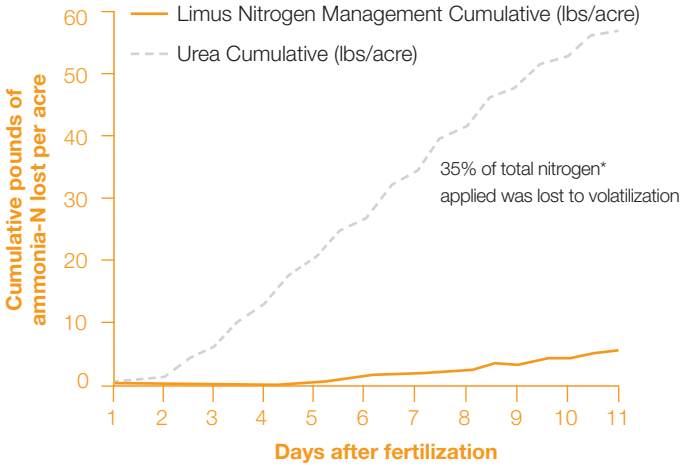
BASF
The Chemical Company

Fate of Urea or UAN in the Nitrogen Cycle



Limus nitrogen management works by blocking a group of enzymes in the soil, preventing urea or UAN from being broken down to ammonia and allowing time for rainfall to move the fertilizer into the soil where the nitrogen is more protected. The end result is more nitrogen conserved for crop growth.

Cumulative Nitrogen Loss of Untreated Urea Compared to Limus Nitrogen Management Treated Urea



*Initial nitrogen application was 150 lbs/acre
2013 North Carolina State University

Best Use Recommendations

Crops

- Corn
- Grain Sorghum
- Pasture/Hay
- Rice
- Wheat and Small Grains
- Others (N requiring crops)

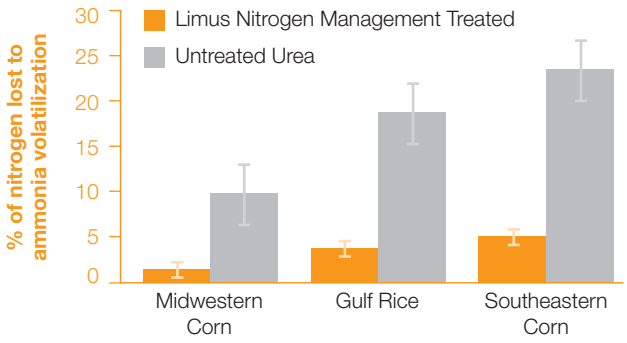
Use Rate

- Urea: 3 quarts/ton
  UAN (28 or 32%): 1.5 quarts/ton

Conditions that can Increase Ammonia Volatilization (N Loss)

- Heavy residue environments
- High temperature and humidity
- Soil moisture
- High soil pH
- Low CEC soils
- High organic matter

Reduction in Ammonia Loss with Limus Nitrogen Management versus Untreated



Refer to container label for use directions.

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For more information on BASF Crop Protection products, visit agproducts.basf.us

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