



**NITRAIN**  
*express* **2.0**

**EDUCATOR**



**Loveland**  
PRODUCTS

# GET ON BOARD!

## INCREASE YOUR NITROGEN USE EFFICIENCY

**NITRAIN EXPRESS 2.0** is a Loveland Products formulation of the urease inhibitor NBPT with the addition of a unique fertilizer biocatalyst system similar to ACCOMPLISH LM. NITRAIN EXPRESS 2.0 works by increasing nitrogen use efficiency through reduction of volatilization and increasing utilization of applied nutrients by the plant.

### FEATURES

- Built on a reliable platform of NBPT chemistry
- Utilizes a concentrated use rate for better handling in cool weather and improved distribution on the urea prill

### RATES

2 qts/ton of Urea; 1 qt/ton of UAN

### GROWER BENEFITS

- Prevents the volatilization of both UAN and urea fertilizer applications for up to 14 days
- Increases the efficiency and utilization of nitrogen and other key nutrients
- Maximizes yield in many different crops by decreasing nitrogen losses due to volatilization of surface-applied nitrogen

### ACTIVE INGREDIENTS

NBPT and Fertilizer Biocatalyst Formulation System

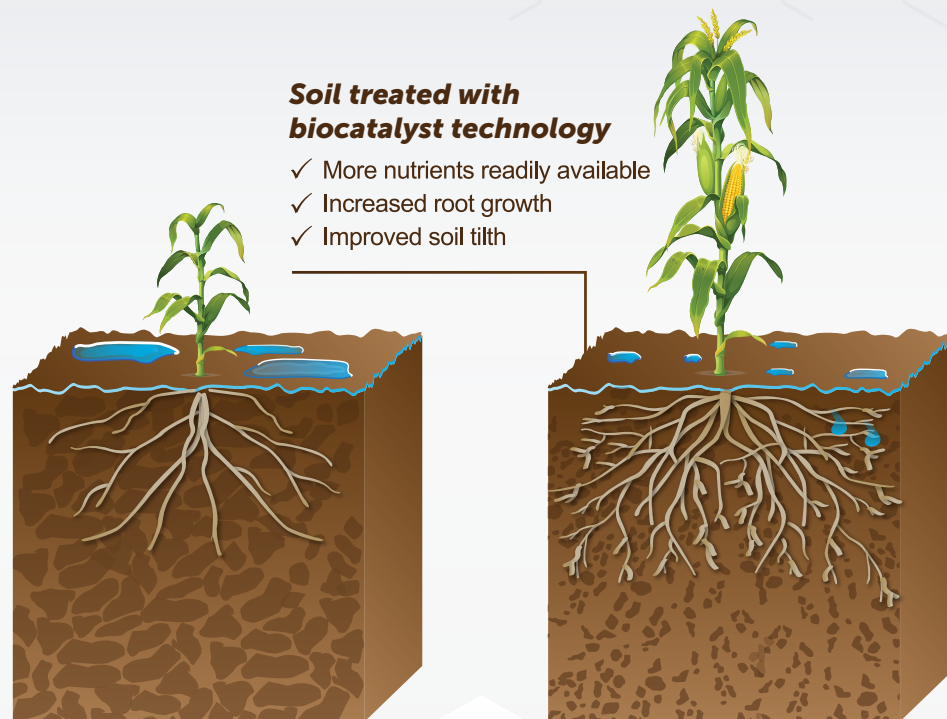
## BIOCATALYST TECHNOLOGY UNLOCKS NUTRIENTS FOR INCREASED UTILIZATION...



- Enhances nutrient use efficiency of existing soil nutrition
- Improves nutrient mineralization
- Increased water use efficiency through salt mediation

### Soil treated with biocatalyst technology

- ✓ More nutrients readily available
- ✓ Increased root growth
- ✓ Improved soil tilth



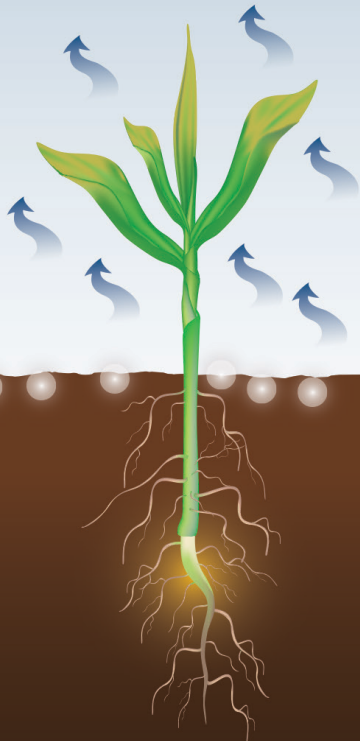
**1** Biocatalyst Applied to Soil

**2** Nutrient Mineralization

**3** Nutrients "Unlocked"

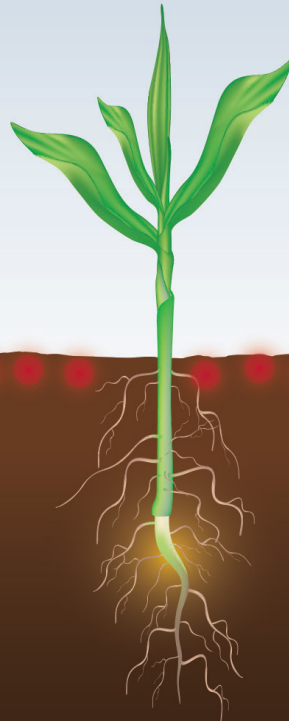
## ...WHILE NBPT REDUCES NITROGEN VOLATILIZATION

Higher Volatilization of Ammonia (NH<sub>3</sub>)



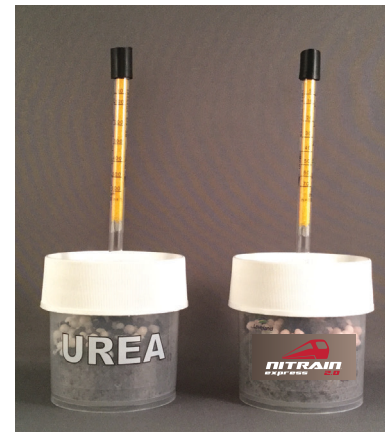
No inhibitor

Enhanced Retention of Applied N



- If urea is hydrolyzed by urease at the soil surface, NH<sub>3</sub> may be lost to air and not available for plant uptake
- Nitrain Express 2.0:
  - » Stops urea from hydrolyzing at the soil surface
  - » Prevents offgassing of NH<sub>3</sub>
  - » Allows urea to enter soil profile with a rain event or physical incorporation while increasing utilization

## DRÄGER TUBE EXPERIMENT: UREA VOLATILIZATION DEMONSTRATION

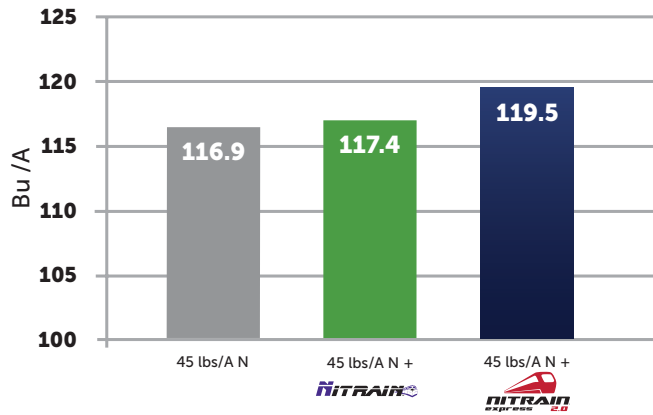


**Immediately Following Application**  
No ammonia loss detected by Dräger tube



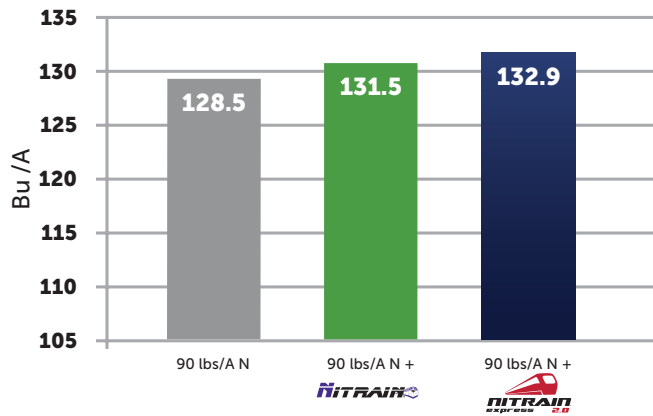
**48-Hours After Application**  
Significantly less N loss with Nitrain Express 2.0 as demonstrated by lower amount of ammonia detected by Dräger tube

### Wheat



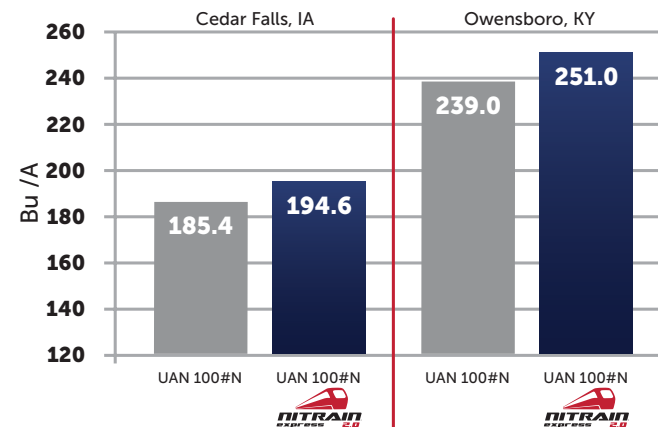
Loveland Research Farm, Owensboro, KY (2014-2015) UAN treated with enhanced NBPT

### Wheat



Loveland Research Farm, Owensboro, KY (2014-2015) UAN treated with enhanced NBPT

### Corn





**GET GROWING.**

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For questions or information,  
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