



SmartNitrogen

Controlled Release Fertilizer

A *smarter* source of nitrogen.

A *smarter* way to grow.

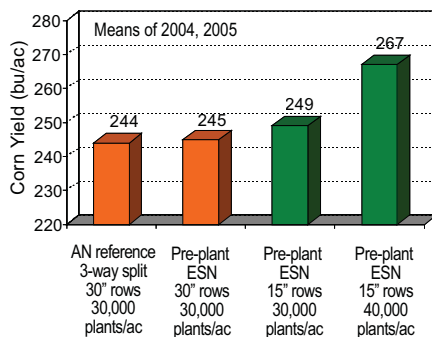


# Facts from the Field

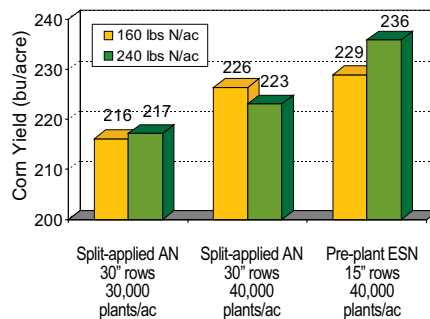
May 2007

## ESN and High Yield Corn – A Winning Combination

**A** University of Nebraska shows that ESN is an important component of high-yield, intensively managed corn production. The study evaluated ESN in combination with high plant populations and narrow row spacing, practices shown to increase yields under intensive management. Typical nitrogen (N) Best Management Practices recommend side-dressing or split applications of conventional N fertilizers. This practice can be difficult or impossible with narrow row spacing. ESN's controlled release of N allows the grower to apply N before planting and eliminates the need to side-dress. The figures below show the results of studies conducted in 2004-2006.



**Figure 1.** Comparison of N source, row spacing, and plant population combinations for high-yield irrigated corn in Eastern Nebraska, 2004-05. All N treatments applied at 179 lbs N/acre. For the split ammonium nitrate treatment 50% of N was applied before planting, 25% at V8, and 25% at VT. Source: A. Dobermann and D. Walters. Univ of Nebraska.



**Figure 2.** Comparison of N source, row spacing, and plant population combinations for high-yield irrigated corn in Eastern Nebraska, 2006. Split ammonium nitrate treatment was applied in four equal increments before planting, and at V6, V10, and just before silking. Source: A. Dobermann and D. Walters. Univ of Nebraska.

- ✓ **One ESN application replaces multiple applications of ammonium nitrate!**
  - \$\$\$ and time saved with single application
- ✓ **ESN performs on higher populations and narrow rows!**
  - The combination of ESN, narrow rows and high populations increased corn yield 20 bushel/acre over conventional practices. 20 bushel/acre x \$4/bushel = \$80/Acre advantage
- ✓ **ESN can replace ammonium nitrate!**
  - Eliminate the worry of regulations and safety of ammonium nitrate
- ✓ **Controlled-Release nitrogen means higher yields!**
  - Nitrogen is available when the plant needs it
- ✓ **ESN...Smart Nitrogen for the Smart Grower!**
  - The Easy, Efficient and Effective source of N

**Contact Agrium Advanced Technologies  
for your needs now!**

### How can we help?

To make ESN a part of your spring nitrogen program, contact an authorized retailer or Agrium representative. For technical information, our agronomists can be reached during business hours.

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