



SmartNitrogen

Controlled Release Fertilizer

A *smarter* source of nitrogen.

A *smarter* way to grow.



Facts from the Field

APRIL 2007

An Illinois corn study shows ESN Smart Nitrogen is the 'smart' choice. ESN produced higher yields and greater profits than other nitrogen additives.

A study in Northeast Illinois conducted by Dr. Randy Simonson of Total Soil Management (TSM) of Catlin, Illinois, compares UAN, UAN plus additives, and ESN under nitrogen stressed conditions. Replicated treatments (shown in the table below) were purposely applied at deficient N rates in order to maximize potential differences in N-use efficiency. All products were applied to supply 60 lbs of N/acre before planting, except the Coron® treatment (see footnote).

For the corn yields shown in the table below, ESN was the only product that produced a statistically significant yield increase over untreated UAN solution. That yield increase of 30 bu/acre was worth over \$80 more per acre than conventional UAN and much more than other UAN additives. The clear winner in this study is ESN from Agrium Advanced Technologies. Contact your ESN sales representative for more information on how you can start getting the benefits of ESN Smart Nitrogen.

Treatment	Rate 60 lbs N/acre) ^{1,2}	Yield (bu/ac)	Cost above UAN (\$/acre) ⁴	Net value above UAN (\$/acre) ⁵
ESN®	136 lbs ESN®/acre	177	7.20	82.80
Pre-plant UAN + Foliar Coron® (V6) ³	20 gal 28% /acre + 5 gal Coron®/acre	160	30.00	9.00
Pre-plant UAN + Agrotain®	20 gal 28% /acre + 7 fl oz Agrotain®/acre	157	2.19	27.81
Pre-plant UAN + Guardian®	20 gal 28% /acre + 1 qt Guardian®/acre	151	7.25	4.75
Pre-plant UAN	20 gal 28% /acre	147		

- 1 All plots also received 10 lbs N/acre as DAP before planting.
- 2 Treatments were applied on May 4 and incorporated 2 days after application.
- 3 Coron® was applied in addition to UAN as a foliar application at V6 (June 19) according to label recommendations. This treatment therefore received a total of 62.4 lbs of N/acre or 12.4 lbs N/acre more than all other treatments.
- 4 Estimated from local retail pricing.
- 5 Calculated from yield increase at \$3.00/bu for corn.

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.



Agronomy Information Line

(800) 661-NPKS (6757)
USA and Canada
(877) 265-0405 USA

email: esn@agriumat.com
www.AgriumAT.com

Agrium U.S. Inc.

4582 S. Ulster Street Suite 1700
Denver, Colorado 80237
(303) 804-4479

Senior Agronomist:
Alan Blaylock