

Facts From the Field

An Illinois Corn Study Shows ESN[®] Smart Nitrogen Is the 'Smart' Choice

ESN Produced Higher Yields and Greater Profits Than Other Nitrogen (N) 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 N stressed conditions. Replicated treatments (shown in the table below) were purposely applied at deficient N rates to maximize potential differences in N-use efficiency. All products were applied to supply 60 lb of N/ac. 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./ac. 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 Nutrien Ltd.

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

¹ All plots also received 10 lb N/ac. as DAP before planting

² Treatments were applied on May 4 and incorporated two 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 lb of N/ac. or 12.4 lb N/ac. more than all other treatments

⁴ Estimated from local retail pricing

⁵ Calculated from yield increase at \$3.00/bu. for corn



ESN SMART NITROGEN

- Enhances nitrogen use efficiency
- Improves crop yield and quality
- Provides convenience through ease of use
- Environmentally responsible



HOW CAN WE HELP?

To make ESN a part of your nitrogen management program, contact an authorized retailer or ESN representative.

FOR MORE INFORMATION:

www.SmartNitrogen.com

ESN REPRESENTATIVE:



Learn more about the industry's leading environmentally smart nitrogen at www.SmartNitrogen.com