

# Facts From the Field

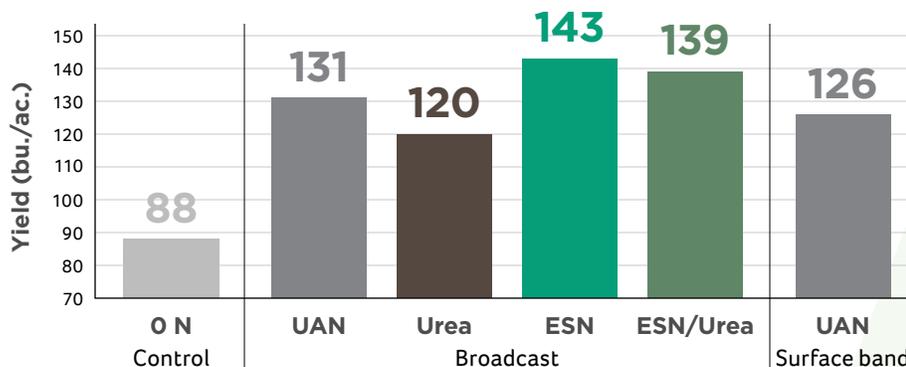
## ESN<sup>®</sup> Produces Greater Yields and Profits in Kansas Corn

A Kansas study on no-till corn shows how ESN can increase crop yields and grower net return. Conventional nitrogen (N) sources such as urea and UAN may be subject to losses through volatilization, leaching or denitrification. ESN can reduce N loss leading to better crop performance.

Broadcast ESN application at planting was compared with broadcast or band applications of either urea or UAN. ESN treatment produced greater yields and more net return than similar applications of conventional N sources.

- ESN increased yields by 12 and 23 bu./ac. over broadcast urea and UAN, respectively.
- ESN increased grower net return by \$26.00/ac. and \$68.50/ac. over broadcast urea and UAN, respectively.\*
- A 50% ESN/urea blend increased grower net return by \$20.00/ac. and \$60.50/ac. over broadcast urea and UAN, respectively.\*

### ESN Increases Kansas No-Till Corn Yields



- Yields are means of six site-years on no-till dryland corn in Kansas from 2008-2010
- All N treatments were broadcast without incorporation
- N rate is 80 lb N/ac. broadcast or banded at planting without incorporation
- All treatments received 20 lb N/ac. in a starter
- Urea/ESN blend is 50% of N from urea with 50% from ESN
- \*Profit calculations assume corn price of \$3.50/bu.; an ESN price difference of \$0.20/lb N and \$0.15/lb N more than urea and UAN, respectively; and application cost of \$7/ac.

Source: Dr. D. Mengel, Kansas State University



#### 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](http://www.SmartNitrogen.com)

#### ESN REPRESENTATIVE:



Learn more about the industry's leading environmentally smart nitrogen at [www.SmartNitrogen.com](http://www.SmartNitrogen.com)

