

# Facts From the Field

## ESN® Out-Yields Split Applications in Illinois Corn Study

Typical nitrogen (N) best management practices (BMPs) for corn recommend side-dressing or split applications of N. This practice incurs additional costs and labor and can be difficult to apply in a timely manner. ESN's controlled N release allows the grower to apply N before planting and eliminates the need to side-dress. The results of a recent Illinois corn study show that a single ESN application can produce yields similar to or greater than conventional split applications without the extra application time and costs.

- Pre-plant banded (6 inches directly below the row) **ESN produced the highest yields in the study** (256 bu./ac.).
- **Pre-plant broadcast ESN produced yields similar to or greater than split applications** using pre-plant broadcast urea.
- Only a split application with pre-plant banded urea followed by urea top-dress produced yields comparable to pre-plant banded ESN.
- Pre-plant banded **ESN out-yielded split application using the popular "Y-Drop" system by 10 bu./ac.**

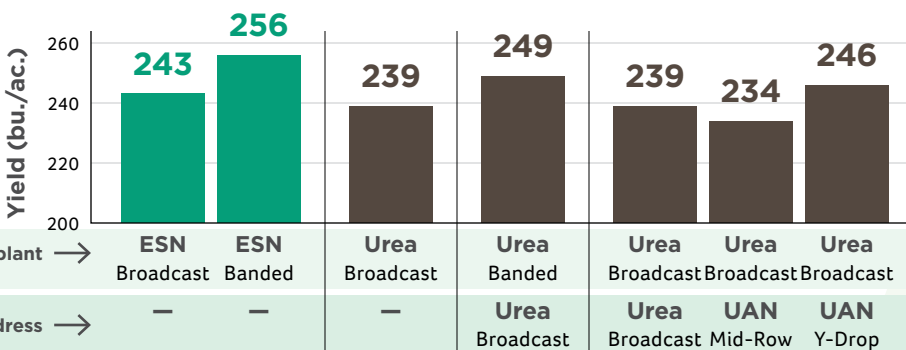


### ESN SMART NITROGEN

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



## ESN Out-Yields Split Applications in Illinois Corn Study



### One application - Pre-plant

### Split application - Pre-plant and V8

- Yields are means of six site-years in 2017 and 2018
- Rainfall was below normal for most site-years
- Conditions were conducive to high N mineralization and minimal N loss
- All treatments received a total of 180 lb N/ac.
- Banded applications were applied 6 inches directly below the row

- UAN side-dress treatments were dribbled on the soil surface either midway between rows (UAN mid-row) or adjacent to rows (UAN Y-Drop)
- Split applications received 90 lb N/ac. before planting and the remainder side-dress
- Broadcast treatments at planting were incorporated immediately after application

Source: Dr. F. Below, University of Illinois

### 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)

