

# Facts From the Field

## Using ESN<sup>®</sup> in Combination with Anhydrous Ammonia

The harvest of 2018 was very challenging in many corn and soybean growing areas in North America. In fact, weather conditions pushed corn and soybean harvest into 2019 in some areas and prevented fall fertilizer application.

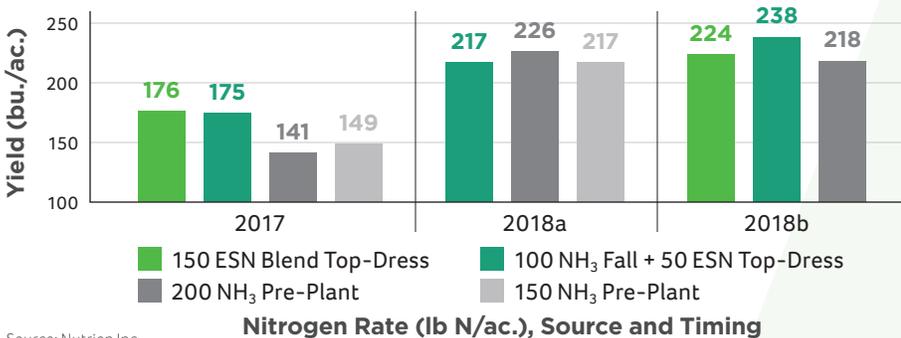
Estimates range from 60% to 70% of those acres where fall anhydrous ammonia application is common practice did not receive this application, shifting nitrogen (N) applications into this spring.

Where anhydrous ammonia is yet to be applied, consider the following practices to optimize N efficiency and avoid crop injury:

1. Sufficient depth (6-8 inch minimum) and proper soil conditions for band sealing.
2. Adjust planting time. There is no magic number of days to wait to avoid injury; time will help, but won't prevent injury. Avoid planting directly over ammonia bands. Use GPS to offset planter rows 4-6 inches or more from ammonia injection bands.
3. Apply anhydrous ammonia at an angle to crop rows to avoid row-length exposure.
4. Reduce rate and schedule a post application of N. Keep injection deep.
5. Delay anhydrous ammonia application until side-dress.
6. Substitute ESN for part or all of the anhydrous ammonia to reduce crop-injury risk and save application time.

The replicated strip-trial results below from three Kentucky site-years show how ESN can be used in combination with anhydrous ammonia. ESN treatments were applied as a top-dress either as a blend of 75% ESN and 25% urea or as ESN following fall-banded ammonia. ESN may also be applied before or at planting for single-application N management. Applying part or all the N in spring or at side-dress improves N-use efficiency and crop yields.

### Kentucky Replicated Strip Trials



Source: Nutrien Inc.



### 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)