

# Facts From the Field

## ESN<sup>®</sup> Simplifies Wisconsin Potato Nitrogen Management

Potatoes require careful management of relatively high nitrogen (N) rates. They are a shallow-rooted crop often grown on sandy soils with potential for N leaching beyond the root zone and into groundwater. ESN has repeatedly shown to produce greater potato yields with fewer applications, reduce N leaching and increase profits. In this Wisconsin study, one ESN application produced yields similar to a conventional split application and reduced leaching losses.

- One ESN application produced yields similar to conventional split application of ammonium sulfate and ammonium nitrate saving application time and money.
- ESN application at emergence at 250 lb N/ac. increased potato profit by \$83/ac. over the split application.
- A reduced rate of ESN (200 lb N/ac.) maintained yields similar to conventional split application and increased profits by \$74/ac.
- ESN maintained lower groundwater nitrate concentrations than AS/AN split application.

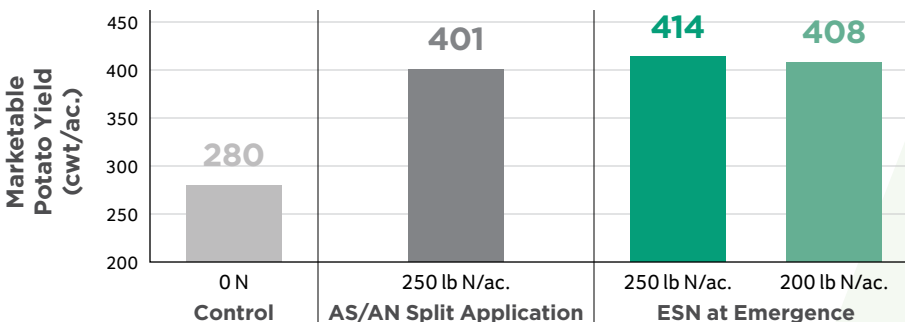


### ESN SMART NITROGEN

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



### Wisconsin Potato N Application Comparison



- AS/AN treatment is split application with 1/3 of total N applied at emergence as ammonium sulfate and incorporated by hilling cultivation with the remaining 2/3 applied as ammonium nitrate at tuberization and immediately watered in
- ESN was applied in one application at emergence and similarly incorporated by the hilling cultivation
- Study was conducted in central Wisconsin in 2010-2011
- Yield values are marketable yields and are means of two years

Source: Dr. M. Ruark, University of Wisconsin, Agron. Jv. 106.

### 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)

