

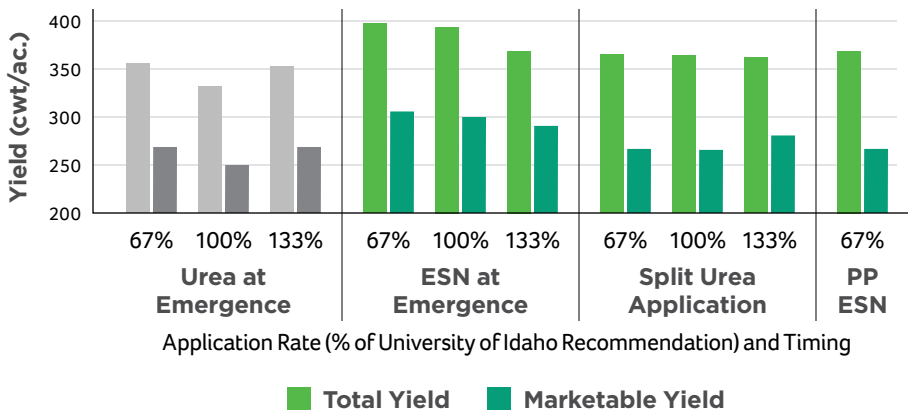
# Facts From the Field

## ESN<sup>®</sup> Increases Potato Profits

A 2006 Idaho study compared ESN applied at emergence or at planting with conventional urea applied at emergence or in multiple applications. ESN produced significant increases in total and marketable yield. Split urea application is 50% in three applications in season. ESN was broadcast and incorporated. The 100% rate is 200 lb N/ac.

**FIGURE 1.**

### ESN Increased Russet Burbank Yields Over Conventional Split Applications



- 2006 Idaho study
- Averages of three locations

Source: Dr. Bryan Hopkins, Brigham Young 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:



A field demonstration plot showed ESN's benefit on Red Norland potatoes in Minnesota. In this test, ESN was applied at planting at 180 lb N/ac. plus 40 lb N/ac. as DAP. The conventional urea program used the same total nitrogen (N) rate in three applications. ESN, once again, produced better yields than the conventional program. Call us to get your potato growers using ESN.

### Tuber Yield (cwt/ac.)

Treatment	<1 3/4"	1 3/4 - 2 1/4"	2 1/4 - 3"	>3"	Cull	Total	Marketable
<b>ESN</b>	21.7	66.6	393.5	89.3	28.4	599.5	571.1
<b>Conventional</b>	16.9	50.5	330.0	115.7	17.2	530.5	513.2

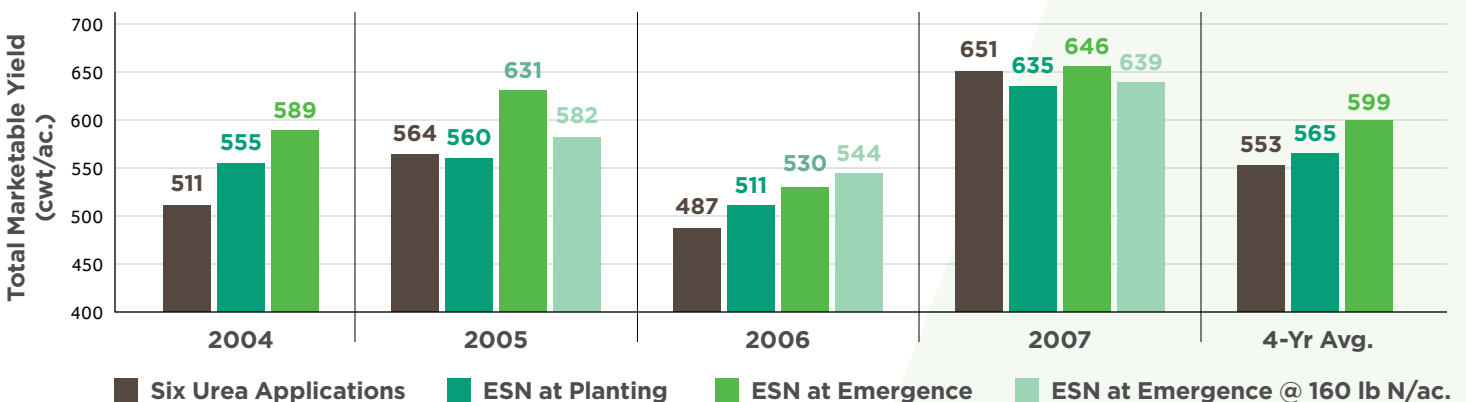
Source: Dr. Carl Rosen, University of Minnesota, 2007

This Minnesota study compared ESN applied at emergence or at planting with multiple applications of conventional urea. ESN produced significant increases in marketable yield in three out of four years. Split urea application included 100 lb N/ac. at emergence, 20 lb N/ac. at hilling, and four post-hilling applications of 20 lb N/ac. at approximately two week intervals. ESN was broadcast and incorporated. N rate shown includes 40 lb N/ac. at planting from DAP.

**FIGURE 2.**

### ESN Increased Russet Burbank Yields Over Conventional Split Applications This Multi-Year Minnesota Study

N treatments applied at 200 lb N/ac.



Source: Dr. Carl Rosen, University of Minnesota



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