



SmartNitrogen

Controlled Release Fertilizer  
A *smarter* source of nitrogen.  
A *smarter* way to grow.



# Facts from the Field

February 2008

## ESN Increases Potato Profits

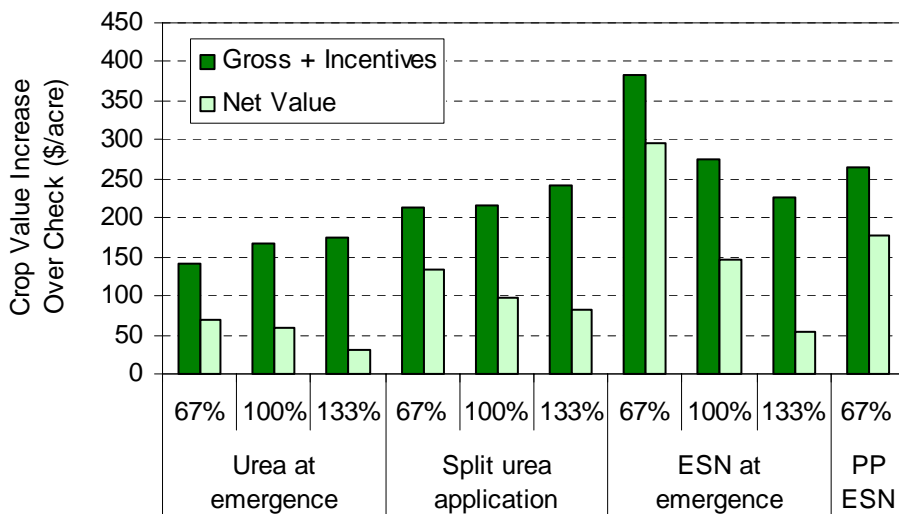


Figure 1. ESN increases grower profits. Rate is the percentage of the University of Idaho recommended rate. (Values are averages of three locations).

Results from field studies are clear that ESN is a smarter nitrogen fertilizer for potatoes. ESN increases yields while saving money by eliminating multiple nitrogen applications. This means more money in the grower's pocket. A 2006 Idaho study compared ESN applied at emergence or at planting with conventional urea in multiple applications. The greatest gross and net crop value were obtained with ESN. Gross and net crop value were calculated from yield and quality data obtained in replicated plot studies. Split urea application is 50% of N at emergence & 50% in three applications in season. ESN was broadcast and incorporated. The 100% rate is 200 lbs N/acre. Fewer applications means savings of time, fuel, labor and equipment, saving the grower money while growing high yielding, high quality potato crops. ESN may cost a little more, but puts more money in the grower's pocket. That's what makes ESN the Smart Nitrogen fertilizer.

Source: Dr. Bryan Hopkins, Brigham Young Univ..

### How can we help?

To make ESN part of your nitrogen program, contact an authorized retailer or Agrium representative. For technical information, our agronomists can be reached during business hours.

### Agronomy Information Line

(800) 661-NPKS (6757)  
USA and Canada  
email: [esn@agriumat.com](mailto:esn@agriumat.com)  
[www.AgriumAT.com](http://www.AgriumAT.com)

### ESN Sales Representatives

#### Mark Mangin

303-588-8333  
319-294-4830  
[mmangin@agriumat.com](mailto:mmangin@agriumat.com)

#### B.J. Bilas

DeWitt, Michigan  
(517) 669-5499  
[bbilas@agriumat.com](mailto:bbilas@agriumat.com)

#### John Niemeyer

Breese, Illinois  
(618) 526-7728  
(618) 792-5736  
[jniemeyer@agriumat.com](mailto:jniemeyer@agriumat.com)

#### Andrew Schenk

Eagle, Idaho  
(208) 938-9095  
[aschenk@agriumat.com](mailto:aschenk@agriumat.com)

### Agronomists

#### Alan Blaylock

4582 S. Ulster Street Suite 1700  
Denver, Colorado 80237  
(303) 804-4479  
[ablayloc@agrium.com](mailto:ablayloc@agrium.com)

#### Ray Dowbenko

13131 Lake Fraser Dr. SE  
Calgary, Alberta, T2J 7E8  
(403) 225-7174  
[rdowbenk@agrium.com](mailto:rdowbenk@agrium.com)

### Online Training

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[http://www.agrium.com/ESN/docs/ESN\\_Order\\_Form2.pdf](http://www.agrium.com/ESN/docs/ESN_Order_Form2.pdf)



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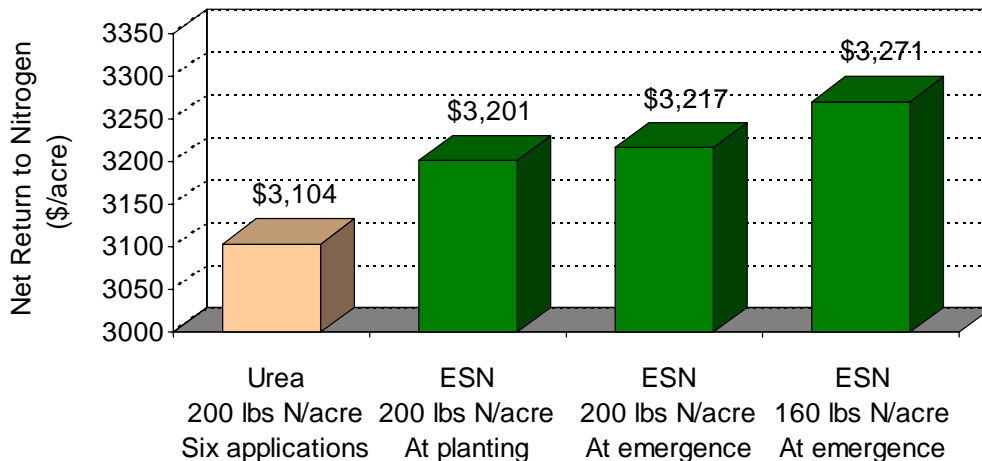


Figure 2. ESN increased the net return from Russet Burbank over conventional split applications in this multi-year Minnesota study. Values are averages of three years (2005-2007).

The results of this Minnesota study show once again why ESN is the Smart Nitrogen. The study compared ESN applied at emergence or at planting with multiple applications of conventional urea. The greatest net returns were obtained by using a single application of ESN. Split urea application included 100 lbs N/ac at emergence, 20 lbs N/ac at hilling, and four post-hilling applications of 20 lbs N/ac at approximately 2 week intervals. ESN was broadcast and incorporated. N rate shown includes 40 lbs N/acre at planting from DAP. ESN saves time, fuel, labor and equipment, while growing high yielding, high quality potato crops. ESN may cost a little more, but puts a lot more on the bottom line. ESN is Smart Nitrogen. Shouldn't every potato grower be using ESN?

Source: Dr. Carl Rosen, Univ. of Minnesota.

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(618) 792-5736  
[jniemeyer@agriumat.com](mailto:jniemeyer@agriumat.com)

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