



SmartNitrogen

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



Facts from the Field

February 2008

ESN Increases Potato Yields

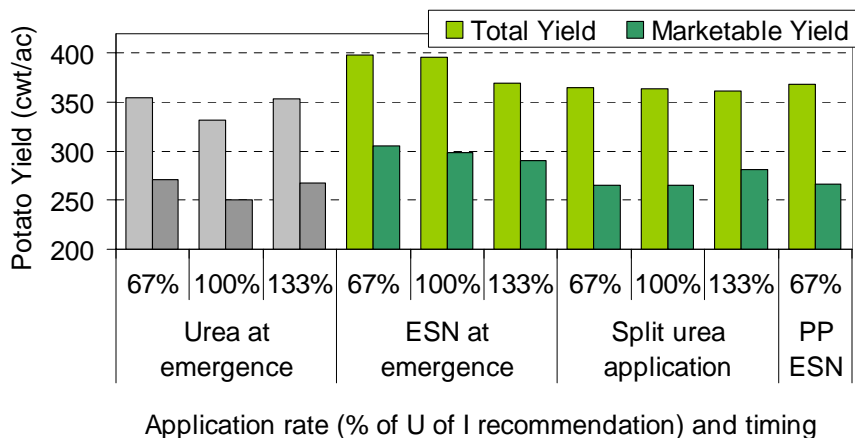


Figure 1. ESN increased Russet Burbank yields over conventional split applications in this 2006 Idaho study (average of three locations).

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% of N at emergence & 50% in three applications in season. ESN was broadcast and incorporated. The 100% rate is 200 lbs N/acre.

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

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

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

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

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

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Online Training

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Ordering Sales Material

http://www.agrium.com/ESN/docs/ESN_Order_Form2.pdf



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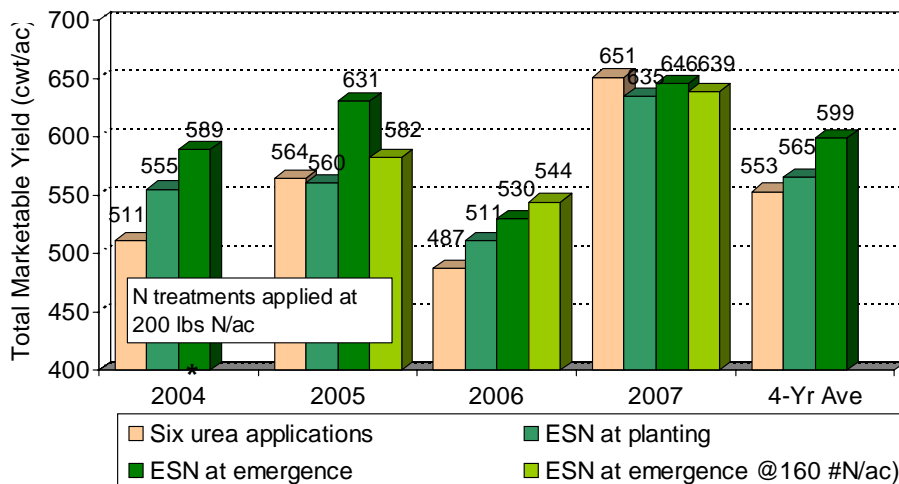


Figure 2. ESN increased Russet Burbank yields over conventional split applications in this multi-year Minnesota study.

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 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.

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

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