

Application and Use Recommendations Potatoes

North Central US and Central Canada

- ▶ Indeterminate varieties
 - 80-100% of N as ESN at emergence
- ▶ Determinate varieties and/or Short Growing Seasons
 - 80-100% of N as ESN at planting in Southern part of the region
 - 50-75% of N as ESN at planting in the Northern part of the region
 - In most cases further N is not required

Northeast US and Eastern Canada

- ▶ Indeterminate varieties
 - 75-90% of N as ESN at emergence in Southern part of region
 - 60-80% of N as ESN at planting in the Northern part of the region
- ▶ Determinate varieties and/or Short Growing Seasons
 - 75-90% of N as ESN at planting
 - In most cases further N is not required



A **SMARTER** SOURCE OF NITROGEN. A **SMARTER** WAY TO GROW.*


For more information about ESN technology visit SmartNitrogen.com or call **1-888-757-0072**. To contact the field representative in your area go to <http://www.SmartNitrogen.com/contact-us.aspx>



Agrium Advanced Technologies (AAT) is a strategic business unit of Agrium Inc. AAT produces and markets controlled-release nutrients, micronutrients and plant protection products for sale to the agricultural, professional turf and ornamental markets primarily in North America.

©2011 Agrium Advanced Technologies.
ESN; ESN SMART NITROGEN; SMARTER WAYS TO GROW; A SMARTER SOURCE OF NITROGEN. A SMARTER WAY TO GROW.; and AGRIMUM ADVANCED TECHNOLOGIES and Designs are all trademarks owned by Agrium Inc.
These statements and recommendations are based on results from independent university research. Actual results may vary.

06/11-13800-08



These are general use recommendations based on optimal growing conditions. Knowledge of local conditions and grower production or yield goals should be considered to modify or blend to achieve best results.



Nitrogen and Potatoes

- Potatoes require high N rates and timing is critical
- Potatoes consume 60-80% of total N needs during tuber initiation and bulking

Benefits of ESN

- ▶ Increase marketable yields up to 15%
- ▶ Shown to increase the percentage of #1's
- ▶ Compared to similar N treatments from urea or UAN, ESN improves N use efficiency
- ▶ ESN can reduce the number of required applications while still delivering yield and quality benefits

Apply recommended rates of N

- ▶ Percentages shown are the recommended percentage of the total N to apply as ESN for the recommended rate and time of application



Geographic Recommendations

Pacific Northwest

- ▶ Indeterminate varieties
 - 75-90% of N as ESN at emergence, fertigate as needed
- ▶ Determinate varieties and/or short growing seasons
 - 50-90% of N as ESN at planting

Mountain States and Central Great Plains

- ▶ Indeterminate varieties
 - 75-90% of N as ESN at emergence, fertigate as needed
- ▶ Determinate varieties and/or Short Growing Seasons
 - 50-90% % of N as ESN at planting. In most cases further N is not required

Northwest Great Plains and Western Canada

- ▶ Indeterminate varieties
 - 75-90% of N as ESN at planting
- ▶ Determinate varieties and/or Short Growing Seasons
 - 75-90% of N as ESN at planting in Southern part of the region
 - 50-75% of N as ESN at planting in the Northern part of the region
 - In most cases further N is not required



ESN is the only controlled-release nitrogen designed for agriculture that delivers a significant return on investment through increased nitrogen efficiency.

