

Facts From the Field

ESN[®] Is Smart Nitrogen for Malting Barley

ESN Smart Nitrogen protects nitrogen (N) from loss inside a flexible polymer coating that controls N release into the soil. ESN feeds crops the N they need in a controlled manner to produce greater yields and better N-use efficiency.

Malting barley is sensitive to timing and amount of N supplied. Too little N early in the growing season can reduce yields, while too much N after heading can increase protein to unacceptable levels. A multi-year Idaho study demonstrates that proper N rates and ESN blends with urea can increase barley yields while maintaining proper grain protein content.

- A 50:50 ESN:urea blend increased yields by 6 to 7 bu./ac. over urea alone.
- A 50:50 ESN:urea blend increased barley profit by \$22.00 to \$23.50 per acre over urea alone.
- Grain protein was not significantly affected by N treatments and was at acceptable levels for all N treatments.
- A 75:25 ESN:urea blend may not have provided sufficient early season N for top yields as yields were generally lower for this treatment.

Let ESN improve your malting barley production.



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.

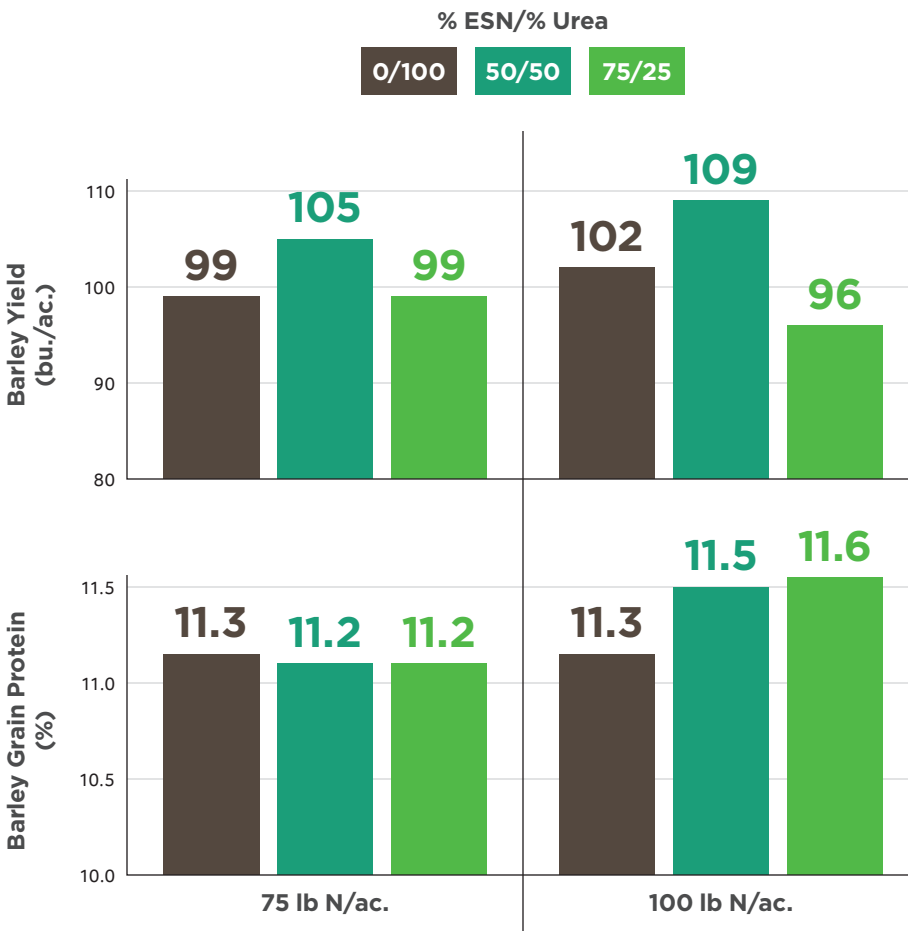
FOR MORE INFORMATION:

www.SmartNitrogen.com

ESN REPRESENTATIVE:



Idaho Barley Yields and Protein



- Yields and grain protein values are averages of three years
- Study was conducted in eastern Idaho near Rexburg, Idaho, in 2015-2017
- N treatments were broadcast and incorporated before planting
- Barley was sprinkler irrigated. Profit calculations assume barley price of \$10/cwt and ESN premium of \$0.20/lb N over urea

Source: Dr. B. Hopkins, Brigham Young University.



Learn more about the industry's leading environmentally smart nitrogen at www.SmartNitrogen.com