



SmartNitrogen

Controlled Release Fertilizer

A *smarter* source of nitrogen.
A *smarter* way to grow.

Agrium
Advanced
Technologies

Facts from the Field

Happy you used ESN – Bet on it!

If you either fall or spring applied ESN for the 2008 spring crop, count yourself Smart (and your nitrogen choice too)!

Recent wet weather across much of the prairie region has put nitrogen in the nitrate form at risk of loss from leaching.

If urea or anhydrous ammonia was fall applied – much of this nitrogen was likely in the nitrate form by mid-May.

Spring applied urea or anhydrous ammonia would convert to nitrate based on soil temperature and moisture. At a band soil temperature of 5C, you will likely have 50% in the nitrate form within 35 days, and 100% in the nitrate form by 75 days. If the band temperature was 10C, then 59% was converted to nitrate in 19 days, and 100% was nitrate by 38 days.

One inch of rain on a clay loam soil penetrates 3” into the soil, carrying your nitrate with it; 2” of rain draws it down to almost 7”. For a sandy loam soil those numbers would be 5” and 10”, respectively. For a sand textured soil – 10” and 20” is where the water and your nitrate can penetrate to – well below where crop roots are at this time of season.

Using controlled release ESN nitrogen protects your nitrogen in the urea and ammonium forms for a longer period of time prior to conversion to nitrate – thus protecting your nitrogen dollars against the current wet environment.

Controlling the release helps control the weather, and keeps more nitrogen where your crop can get at it.



How can we help?

To make ESN a part of your spring nitrogen program, contact an authorized retailer or Agrium representative.

Agrium

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