



The Arthur Companies

Amber Waves

Issue 1-2012

January 10, 2012

Additional Seed Needs?

Due to high demand and seed corn production problems supply has been tight. We have now secured additional supply of many hybrids.

We have also secured additional supply of many soybean varieties, AG 0430 and others.

Contact our agronomists to discuss your needs.



Looking for a Yield Bump in 2012

Don't miss your chance to take part in two great programs for the 2012 growing season. Innovation Plus from Bayer and Headline Advantage from BASF, are offering "you" the grower a chance to **Increase yields** and in turn **Profitability**.

Both programs offer a cash payment option and (or) financing options, with the ability to lock in up to **20%** off per gallon. The first Program deadline is **March 15th** so talk to your agronomist about how to take advantage of these two great offers.



RIB Complete, the easy refuge

Ever since corn resistant to European cornborer was introduced in the late 90s we have dealt with EPA's requirement of 20% refuge. During busy planting season it was difficult to switch hybrids in each field and keeping track of where the refuge bags went.

VT Double Pro is now available as RIB Complete. What does that mean? This single bag solution (Refuge In the Bag) provides simplicity and convenience, when planting fence row to fence row. Its a 95/5 Blend of B.t. and non-B.t. seed. It is a double-stacked trait with dual modes of action for above ground insects. No need to plant separate structured refuge area again.

If you are concerned about corn root worm a SmartStax product should be chosen instead. SmartStax provides below and above ground insect protection with 5% refuge corn, RIB.



- Genuity® SmartStax® RIB Complete™ (95%) Above-and Below-Ground Insect Protection
- Roundup Ready® 2 Technology/LibertyLink®

MODES OF ACTION COMPARISON CHART

| | genuity VT DOUBLE PRO CORN RIB COMPLETE | Agrisure® GT/CB/LL | Herculex® 1 |
|---|---|-----------------------|-------------|
| PRIMARY PESTS | | | |
| European Corn Borer | ** | * | * |
| Southwestern Corn Borer | ** | * | * |
| Corn Earworm | ** | | |
| Fall Armyworm | ** | | * |
| REFUGE (Corn-Growing Area) | 5% Refuge-in-the-Bag Blend | 20% | 20% |
| REFUGE (Cotton-Growing Area) | 20% | 50% | 50% |

** Dual-mode activity * Single-mode activity

Modes of activity equals control of pest.

Genuity® VT Double PRO® RIB Complete™ is a refuge-in-the-bag corn seed blend of 95% B.t. seed and 5% non-B.t. seed.



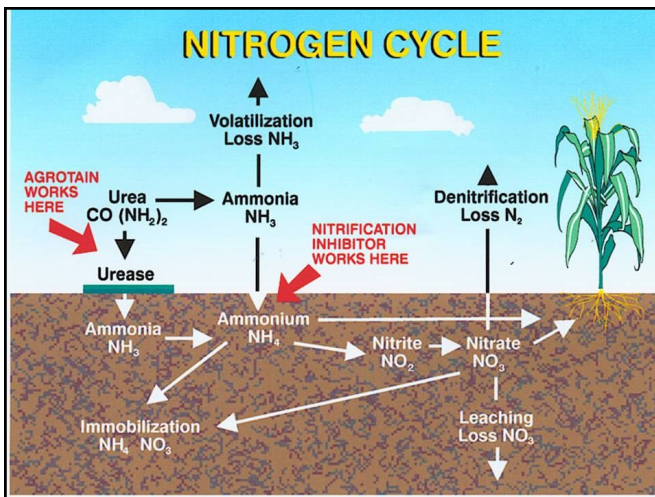
Nitrogen Stabilizer

The key to effective N management is to keep applied N in the ammonium (NH_4^+) form. The ammonium form of N is less susceptible to loss due to denitrification and leaching. Nitrogen stabilizers work by keeping applied N in the preferred ammonium form.

To understand the importance of maintaining N as ammonium, consider what happens in the soil after an N application.

- N sources, like the urea portion of UAN and urea, rapidly converts after application to the ammonium form, which carries a positive charge. The positive charge allows this ammonium to be held in place by negatively charged soil and organic matter.
- A conversion process begins when temperature-sensitive soil bacteria called *Nitrosomonas* convert ammonium to the nitrite form (NO_2^-). Another bacteria then causes conversion to the nitrate form (NO_3^-). This process can take as little as two weeks when soil temperatures start rising. A nitrogen stabilizer works to stabilize N by slowing the conversion of ammonium to nitrates.

Instinct (urea, and 28%) and N-Serve (NH_3) are well tested products that have been on the market for many years. We are set up to impregnate urea. Cost: \$13/ac applied. N-Serve needs to be co-applied at the NH_3 tool bar. Talk to our agronomists about equipment. A cost share program is available to offset the initial cost. Cost: \$11.90/ac



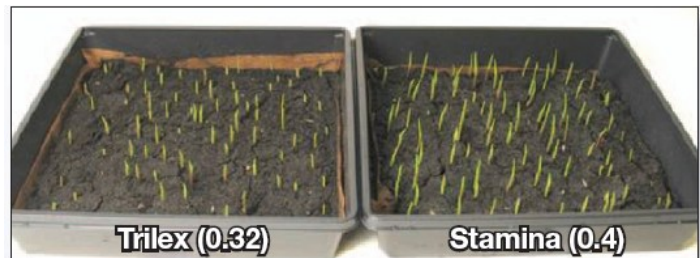
Stamina Corn Seed Treatment

Pyraclostrobin, also known as Headline or F-500, was introduced several years ago. Today the active ingredient is used in more than 90 crops across the world. Beyond disease control F-500 offers the plant better stress tolerance (Plant Health) and cold tolerance, the latter noticed in sugarbeets and treated seed. F-500 is now available as a seed treatment in corn as Stamina, soybeans as Acceleron, and wheat as Charter F³.

Field trials conducted throughout the U.S. during the last few seasons confirm stand and yield improvements with Stamina in corn when compared to other standard seed treatments. Seed and seedlings are better protected by Stamina from key diseases such as *Rhizoctonia*. This is particularly important as earlier planting may lead to slower emergence of seedlings due to cool, wet soils. Today most of the corn is planted before soil temp reaches 50°F. Many of you have used Stamina the last few years and the results have been very positive. Most noticeable was quicker and more even emergence, drier corn at harvest and higher yield. The average of three side by side comparison in our plots 2010; Stamina treated corn was 3.4 bu better and 1.5% drier than without Stamina. Headline in furrow mixed with 10-34 have delivered similar results but at a significant higher cost.

Stamina on corn

Cost \$6/unit or \$2.40/ac



Emergence and stand following cold conditions:

In lab studies, corn treated with Stamina® fungicide subjected to the Saturated Cold Test (7 days at 50°F and 3 days at 77°F) showed taller plants and better emergence compared to untreated seedlings and seedlings treated with competitor's chemistry. Rates in parentheses are in fl oz/CWT.

Stamina treated and untreated corn in a split planter trial. Ayr 2010.

