

## WHEAT VARIETY NEWS FOR 2014



### 2013/ 2014 Wheat Varieties

USG wheat varieties had another outstanding year in the Virginia Tech, Maryland, Delaware and North Carolina State Official Variety Trials (OVT). Even with all the many challenges in 2013, USG has proven once again to be a reliable source of wheat genetics.

For a successful wheat crop, fall decisions are critical; 65% of your yield is determined when planting is completed. Variety selection has a major impact on wheat yields. Consider:

- **Planting window:** late heading varieties need to be planted early to develop tillers prior to December. This allows growers to start planting early but reduces the possibility of spring freeze damage. On the opposite end, plant early heading wheat varieties later in the planting window. Planting these varieties too early will expose the wheat to late winter/early spring freezes.
- **Scab Tolerance:** while no variety is resistant to scab (*Fusarium Head Blight*), several varieties have above average tolerance. All USG varieties produced by Renwood Farms have above average tolerance to scab.

#### Varieties Listed in Order of Planting

- **USG 3315:** a stout wheat variety: USG's best defensive wheat (including scab) with consistent yields and excellent test weight. Strong against soil viruses, rusts, scab, mildew, glume blotch and septoria: excellent drought tolerance for lighter soils.
- **USG 3013 (NEW):** To replace 3315: all the traits of 3315 including test weight but a little better yield potential and no tip beard. Top yield in VT OVT Trials in 2013. This is the "work-horse" variety for this maturity.
- **USG 3251:** Top yield and test weight in three-year VT wheat variety trials. Full beard with above average resistance to scab, leaf blotch, mildew and leaf and stripe rust. This is the "race-horse" variety for this maturity.

- **USG 3201:** Powerful wheat with high yields, excellent test weight and an outstanding disease package. Less straw than 3251 and better tolerance to scab.
- **USG 3438:** Sister to 3251, it is a noticeably shorter wheat than 3251 (4" shorter) for less straw and easier soybean planting. Tied for highest yield in 2013 VT OVT. Average test weight: Watch for soil viruses.
- **USG 3612 (NEW):** Smooth head with outstanding yield potential and excellent test weight. Excellent tolerance to scab: above average resistance to mildew, glume blotch plus leaf and stripe rust: Watch for soil viruses.
- **USG 3555:** Most popular USG wheat variety planted with a wide area of adaption. Tied for first place in the VT 2012 OVT Trials: early maturity, short plant height, tolerant to mildew and rust, good scab tolerance; has a beard on the top third of the head. Excellent resistance to WSSMV: top yields in VA Tech State Trials three year average: Virginia Tech and NCSU recommend variety.
- **Jamestown:** An early-heading, high yielding variety from VA Tech. Very good disease resistance to stripe rust with above-average tolerance to scab.
- **USG 3120:** The number one wheat in the one, two and three-year NCSU wheat trials and tied for first place in the VT 2012 OVT Trials. Similar maturity to Jamestown (early harvest) but yielded 6 bu. /acre more than Jamestown in 2013; a nice beard, good overall virus and disease ratings, including scab; averaged 80 bu. / acre in VT three-year trials. Watch for soil viruses.

Certain varieties are in limited supply due to the very wet harvest season but overall there is a very good supply of outstanding wheat varieties available from Renwood Farms this fall.

# WHEAT FALL 2013

## Wheat Varieties



**USG 3251: 4" head with full beard: for high yields**

04/27/2011



**USG 3013: to replace 3315: drought tolerant variety with very high yield potential**



**USG 3438 short plant with high yields**



**USG 3120: full flower on April 27 in 2011: for early harvest**

04/27/2011



**USG 3612: top scab tolerance in a high yield package**

05/23/2013

Group 1	Group 2 & 3	Group 4
earliest planting	middle planting	last planting
USG 3013 (new) USG 3251 USG 3315	USG 3612 (new) USG 3201 USG 3438	USG 3555 USG 3120 Jamestown

Planting the right variety in the right planting window is critical to limit spring freeze damage. The table at left shows which variety is recommended for the different planting windows. Planting a Group 4 variety too early enhances chances for spring freeze damage as they grow all winter long regardless of day-length.

## WHEAT FALL 2013

### Vizor™ : Custom Seed Treatment For Mid-Atlantic Soils

In 2010, Renwood Farms introduced the **Vizor** family of seed treatments. These new seed treatments are only available from Renwood Farms. **Vizor** seed treatments are designed to stop the diseases associated with warm and cool soil temperatures so growers can plant when the fields are ready.

**Vizor** has three different seed treatments: two offer protection in cooler soils and a **third fungicide is added** to stop warm-soil fungal diseases.

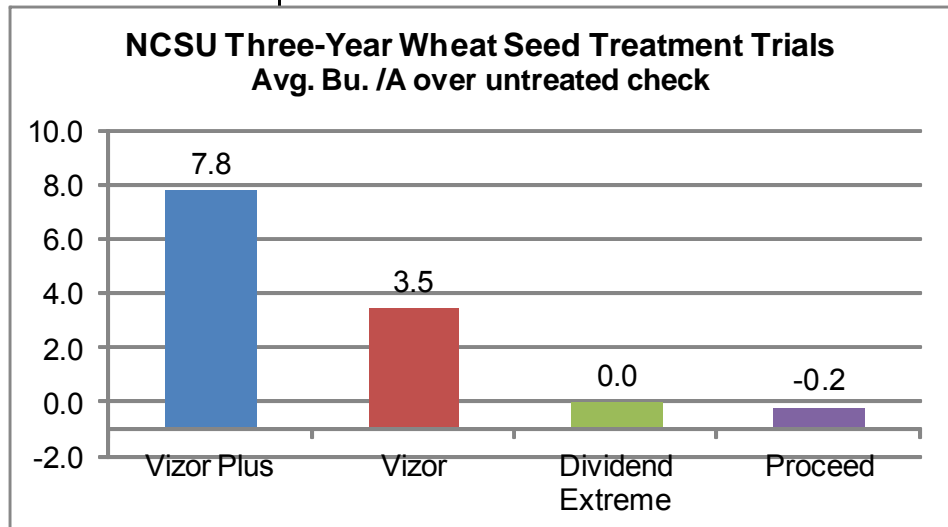
In addition to stopping the disease early, **Vizor** offers extended protection when we get early cool weather but then temperatures warm. The **Vizor** offers 200 days of protection compared to only 40 days for other seed treatments.

NCSU tested wheat seed treatments over a three-year period and found that the **Vizor** treatments were the only treatment that increased yields every year.

Renwood Farms added an option for growers to include **zinc** to their seed. There were several fields last year that tested low or deficient in zinc especially on lighter soils.

**Adding zinc has also increased plant manganese levels** in field conditions. Manganese is an ongoing problem in wheat and barley production that seems to be getting worst. In one research test, zinc seed treatment increased wheat yields between 14% and 17%. For less than \$5/ acre, this can replace foliar materials costing as much as \$16/acre.

As more growers request seed insecticides to prevent Barley Yellow Dwarf Virus from aphids and Hessian fly damage, it becomes important to understand that some suppliers use the lowest rates allowed by the labels which does not guarantee performance in our market.



<b>Vizor</b>	Unique three-fungicide treatment with higher rates for longer, stronger protection
<b>Vizor Plus</b>	<b>Vizor</b> with insect control for aphids and Hessian fly
<b>Vizor ZN</b>	<b>Vizor</b> with zinc
<b>Vizor 5Z</b>	<b>Vizor Plus</b> with zinc
Vibrance Extreme	For planting in cooler soils
Vibrance Extreme Plus	For planting in cooler soils with insect control for aphids and Hessian Fly

At Renwood Farms, **imidacloprid is applied equal to 1.4 ozs. /100 lbs. of Gaucho 600** to provide the protection from fall aphids and Hessian fly. Labeled rates range from .8 to 2.4 ozs. /100 lbs. Adding a seed insecticide added 4.3 bu. /acre in NCSU trials even when insect pressure from aphids and Hessian fly were very low.

Renwood Farms offers custom seed treatments including Vibrance Extreme® (Syngenta) and EverGol Energy® (Bayer) as well as growth regulators such as KickStand™ and Awaken ST™. Imidacloprid can be added to all treatments for insect protection.

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## Fall 2013 Wheat Varieties

Recommended Variety	Maturity	Height	Head Type	TW	Mildew	Glume Blotch	Scab Tolerance	Soil Virus
USG 3315	ME	T	AL	2	3	3	2	2
USG 3013 (new)	ML	M	S	2	2	2	2	2
USG 3251	ML	M	A	3	3	4	3	2
USG 3201	M	M	AL	2	2	2	2	NR
USG 3438	ME	S	A	4	3	3	3	4
USG 3612 (new)	M	M	S	2	2	2	2	4
USG 3555	ME	M	AL	2	1	4	2	2
USG 3120	E	MS	A	2	1	4	3	5

Maturity: E = early harvest, M = medium harvest, L = late harvest

Height: S = short, M = medium, T = tall

Head Type: A = awned (full beard), AL = awnletted (tip beard), S = smooth (no beard)

TW = test weight

Mildew, Septoria, Scab, Virus: 1 = best, 9 = worst

### Keys to High-Yield Wheat

- Plant high quality, disease-free USG varieties from Renwood Farms
- Apply **Vizor Plus** or **Vizor 5Z** seed treatment to avoid root rots and control fall insects – aphids & Hessian fly
- Select varieties with different heading dates to avoid freeze

- Select varieties with tolerance/ resistance to scab and soil viruses
- Burndown at least three weeks prior to planting in no-till fields

**At Renwood Farms, we understand how quality seed impacts your yields and profits; we strive to produce quality seed to ensure your success in every bag, on every acre, every time.**