

WHEAT VARIETY NEWS FOR 2016



2015/ 2016 USG Wheat Varieties from Renwood Farms

At Renwood Farms, we strive to produce disease-free seed and protect it with advanced seed treatments to ensure your success in every bag, on every acre, every time.

Summary of 2015: There were three events that influenced how Mid-Atlantic wheat performed in 2015.

Wet February: For early and mid-October planted wheat, the winter topdress timing was in mid-February (800-1,000 GDU). Central VA was hit by extended snow and rain periods which resulted in delayed winter topdressing (mid-March) for many fields. This lowered tiller numbers which hurt yields.

Cold March: In 2015, there were 234 GDU (heat units) generated in March. In the highest VA wheat yield years, 2008 and 2011, there were 300+ GDU generated in March. We need a warm March for the last tillers to develop, especially for late-planted wheat. As days get longer, wheat starts heading regardless of the number of tillers formed.

Scab: Parts of VA received rain and heavy dews during wheat flowering, never a good sign. Moisture in May almost guarantees scab problems. Variety selection and fungicides will reduce the impact.

Fall Guide to High-Yield Wheat

- Plant disease-free USG seeds from Renwood Farms: In Virginia Tech 3-year wheat trials, USG has four of the top eight varieties for yield. No seed company has selected for better disease resistance and/or scab tolerance.
- Apply **Vizor 5Z™** seed treatment
- Select varieties with different heading dates to avoid spring freeze
- Select varieties with tolerance to scab and a solid disease resistance package
- Burndown no-till fields at least three weeks prior to planting
- Fertilize in the fall with N-P-K-S and zinc

Varieties Available Listed in Order of Planting

- **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 3833: NEW:** Very vigorous tillering wheat with outstanding stripe rust resistance. Excellent tolerance to scab with very good test weight and superior resistance to soil-borne virus makes this a good choice for heavier soils.
- **USG 3315:** A stout wheat variety: USG’s best defensive wheat (including scab) with consistent yields and excellent test weight. Strong against soil viruses on heavy soils, excellent drought tolerance for lighter soils.
- **USG 3404:** Powerful wheat with high yields, very good test weight and an outstanding disease package. Top yield in 2014 and 2015 VA Tech wheat variety trials.
- **USG 3612:** Smooth head with outstanding yield potential and very good test weight. Excellent tolerance to scab: above average resistance to mildew, glume blotch plus leaf and stripe rust. Watch for soil viruses. Not for wet soils.
- **USG 3523:** First late planting/early-heading wheat released in a long time. Superb disease package with outstanding yields. Top overall yields in VA Tech state wheat trials with 3251 and 3404.

Also available from Renwood Farms:

- USG 3993: best scab and soil virus tolerance
- USG 3438: short wheat for less straw and easier soybean planting
- USG 3120: for late planting on light soils
- USG 3555: for late planting on heavier soils

WHEAT FALL 2015

Wheat Varieties



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



USG 3404: very high yields with outstanding disease package



USG 3523: for early harvest, high yields and great disease package



USG 3612: top scab tolerance in a high yield package

Group 1 earliest planting	Group 2 & 3 middle planting	Group 4 last planting
USG 3833 (new)	USG 3404	USG 3523
USG 3251	USG 3612	USG 3120
USG 3315	USG 3438	USG 3555
USG 3993		

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 2015

Vizor™ Seed Treatments for the Mid-Atlantic and South

Vizor™ seed treatments are designed to stop the diseases associated with both warm and cool soil temperatures. All seed treatments other than **Vizor™** are added to protect in cold soils only.

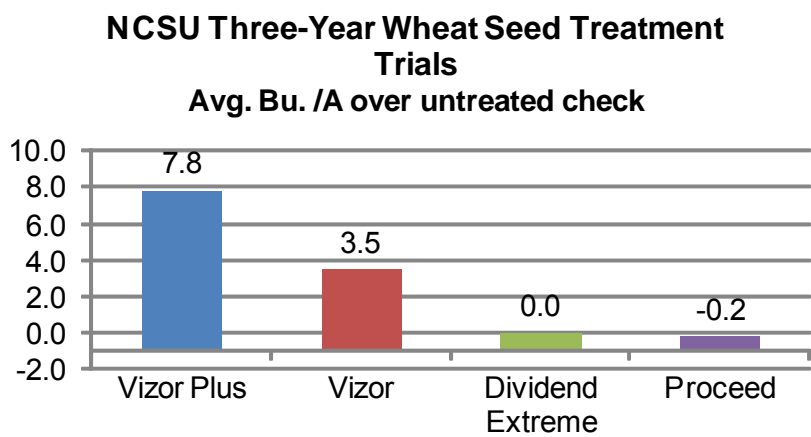
In addition to stopping diseases early, **Vizor™** offers extended protection. **Vizor™** provides 200 days of protection compared to only 35 days for other seed treatments.

The graph shows NCSU wheat seed treatment plots over a three-year period. This research showed that the **Vizor™** wheat seed treatments were the only treatment that increased yields every year.

Renwood Farms can include **zinc** on seed. Zinc is needed as a plant nutrient but also stimulates soil microbes to release more nutrients to the plant. **Adding zinc to seed has increased plant manganese levels** in field conditions. Zinc seed treatments can prevent sharp eyespot fungal infections where litter has been used. In 2013, adding zinc to the seed increased yields by 16 bu. /acre in Renwood Farms seed production. Seed zinc has increased wheat yields by 12 bu. / acre or more in Mississippi, North Carolina and Virginia fields.

Growers use seed insecticides to prevent aphid (transmits Barley Yellow Dwarf Virus), Hessian fly and soil insect damage. Some seed treatments use the lowest rates allowed by the labels which lowers performance. **Vizor Plus™ and Vizor 5Z™** provides Gaucho 600 at 1.4 ozs. /100 lbs. to provide protection from aphids, Hessian fly and soil insects all fall. Adding a seed insecticide at the proper rate added 4.3 bu. /acre in NCSU trials.

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



Vizor™	Unique multiple fungicide treatment with higher rates for longer, stronger protection
Vizor Plus™	Vizor with insect control for aphids and Hessian fly
Vizor ZN™	Vizor with zinc
Vizor 5Z™	Vizor Plus with zinc



Vizor™ seed treatments are the most effective way to protect against root rots and insect pests while delivering a critical nutrient package at the lowest cost to protect and feed plants to deliver higher yields.

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Fall 2015 Wheat Variety Characteristics

Variety	Maturity	Height	Head Type	Test Weight	Mildew	Glume Blotch	Scab Tolerance	Soil Virus
USG 3315	ME	T	AL	2	3	3	2	2
USG 3833	M	M	S	3	4	3	3	2
USG 3013	ML	M	S	2	2	2	2	2
USG 3993	ML	M-T	S	2	3	4	2	2
USG 3251	ML	M	A	3	3	4	3	2
USG 3438	ME	S	A	4	3	3	3	4
USG 3404	M	M	AL	2	2	2	2	NR
USG 3612	M	M	S	2	2	2	2	4
USG 3523	ME	M	A	2	2	2	3	3
USG 3555	ME	M	AL	2	1	4	2	2
USG 3120	E	S-M	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)

Test Weight: 1 = best, 9 = worst

Mildew, Glume Blotch, Scab, Virus: 1 = best resistance 9 = least