

WHEAT VARIETY NEWS FOR 2013



2012/ 2013 Wheat Varieties

USG wheat varieties had another outstanding year in both the Virginia Tech and North Carolina Official State Variety Trials. Even with all the many challenges in 2012, USG has proven once again to be a reliable source of wheat genetics.

Fall Decisions

For a successful wheat crop, fall decisions are critical; 65% of your yield is determined when planting is completed.

Variety Selection: Variety selection constitutes a major impact on wheat yields. Consider:

- **Planting window:** late heading varieties (Group 1 & 2 on Page 2) need to be planted early to develop tillers prior to early December. This allows growers to start planting early but reduces spring freeze damage when we have warm winters. On the opposite end, the "Group 3 & 4" wheat varieties (early heading) are planted in the second half of 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 Seed have above average tolerance to scab.

Controlling fall aphids and Hessian fly: VA Tech data shows yields reduced by 30% or more if aphids and/or Hessian fly attack wheat. Seed treatments are the best way to stop these pests.

Varieties for Fall 2012

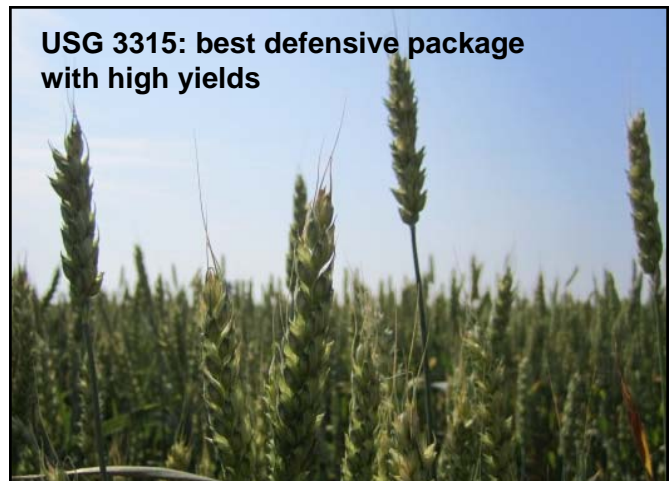
- **Roane:** exceptional test weight, tip beard, high yields, great for straw: outstanding tolerance to scab and BYD, above average tolerance to WSSMV and SBMV; for early planting
- **Coker 9436:** a late-heading wheat for early planting; a strong tillering plant that allows for lower seeding rates: good for fields prone to geese damage; avoid soils with spindle streak

- **USG 3315:** a stout wheat variety: replaces 3665: our best defensive wheat (including scab) without giving up high yields. Strong against soil viruses, rusts, scab, mildew, glume blotch and septoria: works well on lighter soils. Virginia Tech recommend variety.
- **USG 3251:** It's all about yields with this variety. Top yield in 2011 and 2012 VA wheat variety trials. Full beard with above average resistance to scab, leaf blotch, mildew and leaf rust. Replaces Merl in our line-up. Virginia Tech and NCSU recommend variety.
- **USG 3201 (NEW):** Powerful wheat with high yields 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. Watch for soil viruses. NCSU recommended variety.
- **USG 3555:** Most popular USG wheat variety planted with a wide area of adaptation. 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.
- **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 and yields to Jamestown (early harvest) but with much better test weight; a nice beard, good overall virus and disease ratings, including scab; averaged 80 bu. /acre in VT three-year trials. Virginia Tech and NCSU recommend variety.

Also available for 2012: Branson and Jamestown.

WHEAT FALL 2012

Wheat Varieties



Group 1 (earliest planting)	Group 2	Group 3	Group 4 (latest planting)
Roane	USG 3315 Coker 9436 USG 3251	USG 3438 USG 3201	USG 3555 USG 3120

WHEAT FALL 2012

Vizor™ : Custom Seed Treatment For Mid-Atlantic Soils

In 2010, we introduced the **Vizor** family of seed treatments. These new seed treatments are exclusive 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.

In 2011, because we still observed Pythium, a cool season root disease, we increased the rate of metalaxyl by 70% to 94% of the highest labeled compound to control this disease in our **Vizor** seed treatment. Most of the seed treatments available only supply 18% of the original recommended rate.

For 2012, Renwood Farms Seed is adding 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 to the seed is the most cost effective way to correct low soil zinc 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 on barley enhanced water use efficiency by 44% and in a separate test, increased wheat yields between 14% and 17%.



Zinc deficiency in wheat in 2012



Vizor on left, Dividend Extreme on right

Vizor	Unique three-fungicide treatment with higher rates for longer, stronger protection
Vizor Plus	Vizor with insect control for aphids and Hessian fly
Vizor ST	Vizor with growth stimulant and micronutrients: boron, copper, zinc, manganese, molybdenum
Vizor ZN	Vizor with zinc
Vizor 5Z	Vizor Plus with zinc
Dividend Extreme	For planting in cooler soils
Dividend Extreme Plus	For planting in cooler soils with insect control for aphids and Hessian Fly

Note: as more growers request seed insecticides to prevent Barley Yellow Dwarf Virus from aphids and Hessian fly damage, it becomes important to understand the wide range of recommended rates of materials to control. Some suppliers use the lowest rates allowed by the labels which does not guarantee performance in our market.

At Renwood Farms Seed, insecticides are applied at rates recommended by Virginia Tech and NCSU to provide the protection growers seek at an economical price.



RENWOOD FARMS SEEDS

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Fall 2012 Wheat Varieties

Recommended Variety	Maturity	Height	Head Type	TW	Mildew	Leaf Septoria	Scab Tolerance	Soil Virus
Roane	L	T	AL	1	6	3	1	2
Coker 9436	M	M	S	3	4	5	3	5
USG 3315	ME	T	AL	2	3	3	2	2
USG 3251	ML	M	A	3	3	3	3	2
USG 3201 (new)	M	M	AL	2	2	2	2	NR
USG 3438	ME	S	A	4	3	3	3	4
USG 3555	ME	M	AL	2	1	4	2	2
USG 3120	E	MS	A	2	1	4	3	2

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 Seed
- 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 Seed, 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.