SMALL GRAINS IN 2005

The following are the small grain variety recommendations for Virginia in 2005. The recommendations are based on the agronomic performance in barley and wheat variety tests conducted by the Research and Extension Divisions of Virginia Tech in the various agricultural regions of the state.

### Wheat Varieties Recommended

**Arranged in Order of Maturity**  
All varieties have been extensively tested and proven to be adapted statewide

#### Agronomic Characteristics

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Grain Yield</th>
<th>Test Weight</th>
<th>Milling Quality</th>
<th>SRW Baking Quality</th>
<th>Relative Heading</th>
<th>Straw Yield</th>
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<td>4</td>
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</tr>
<tr>
<td>SISSON</td>
<td>3</td>
<td>2</td>
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<td>USG 3209*</td>
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<tr>
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1 - Significantly below average  
2 - Below average  
3 - Greater than average  
4 - Significantly greater than average  
*These lines are not daylength sensitive and should not be planted early in order to avoid potential freeze damage.*
### Wheat Varieties Recommended, continued

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>FHB† resistance</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Stripe Rust</th>
<th>Glume Blotch</th>
<th>Barley Yellow Dwarf Virus</th>
<th>Wheat Spindle Streak Virus</th>
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<td>4</td>
<td>3</td>
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* These lines are not daylength sensitive and should not be planted early in order to avoid potential freeze damage.

† FHB - Fusarium head blight

### Barley Varieties Recommended

#### Hulled Barley

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<tr>
<th>Variety</th>
<th>Nomini</th>
<th>Callao</th>
<th>Price</th>
<th>Thoroughbred</th>
<th>Hulless Barley</th>
<th>Doyce</th>
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<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
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<td>X</td>
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<td></td>
<td></td>
<td>X</td>
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#### Agronomic Characteristics

<table>
<thead>
<tr>
<th>Trait</th>
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<th>Hulless Barley</th>
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<tr>
<td>Relative Heading</td>
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<td>Early</td>
<td>Avg</td>
<td>Late</td>
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<td>Grain Protein, %</td>
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<td>53.4</td>
<td>54.7</td>
<td>61.3</td>
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</table>

4 - Significantly greater than average  2 - Below average  3 - Greater than average  1 - Significantly below average
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SECTION 6 - WHEAT SCAB RESEARCH
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COMMERCIAL BARLEY ENTRIES

Virginia Tech and Virginia Crop Improvement Association, 9142 Atlee Station Road, Mechanicsville, VA 23116 – Barsoy, Callao, Doyce, Nomini, Price, Thoroughbred, and Wysor.

COMMERCIAL AND EXPERIMENTAL WHEAT ENTRIES

AgriPro COKER, PO Box 411, 520 East 1050 South, Brookston, IN 47923 – COKER 9184, COKER 9295, COKER 9312, COKER 9436, COKER 9553, COKER B980416, COKER B980582, and AgriPro Crawford.

Featherstone Seed Company, 13941 Genito Road, Amelia, VA 23002 - Featherstone 520 and Featherstone 176.

Hubner Seed Company, Inc., 524 Bermuda Hundred, Chester, VA 23836 – H-50.

University of Maryland, CMREC/Beltsville Facility, 12000 Beaver Dam Road, Laurel, MD 20708 – Choptank and MD5-46.

North Carolina State University, 840 Method Rd, Unit 3, Box 7629, Raleigh, NC 27695-7629 – Neuse, NC99-13022, NC00-15332, and Arcia (a triticale).


Renwood Farms, Inc., 17303 Sandy Point Road, Charles City, VA 23030 – Renwood 3260 and 3706.

Resource Seeds, Inc., 2355 Rice Pike, Union, KY 41091 – Trical 2115 (a triticale).


Southern States Cooperative, PO Box 26234, Richmond, VA 23260 - SS 520, SS 550, SS 560, SS 8302, SS 8309, SS MPV 57, and SS Exp 240438.

Uni-South Genetics, 2640-C Nolensville Road, Nashville, TN 37211 - USG 3209, USG 3137, USG Exp 820, and 3706.

Virginia Tech and Virginia Crop Improvement Association, 9142 Atlee Station Road, Mechanicsville, VA 23111 – McCormick, Sisson, and all lines prefixed by VA.


Conducted and summarized by the following Virginia Tech employees: Dr. Wade Thomason, Extension Agronomist, Grains; Dr. Daniel E. Brann, Extension Agronomist, Grains (retired); Dr. Carl Griffey, Small Grains Breeder; Mr. Harry Behl, Agricultural Supervisor; Ms. Elizabeth Rucker and Mr. Tom Pridgen, Research Associates. Location Supervisors: Mr. Tom Custis (Painter); Mr. Bobby Ashburn (Holland); Mr. Bob Pitman, Mr. Mark Vaughan, Mr. Jason Kenner, and Mr. Charles Sanford (Warsaw); Mr. Ned Jones (Blackstone); Dr. Carl Griffey, Mr. Wynse Brooks, and Mr. Tom Pridgen (Blacksburg); Mr. Brian Jones and Mr. Mack Smith (Shenandoah Valley); Mr. David Starner and Mr. Denton Dixon, Mr. Steve Gulick, and Mr. Alvin Hood (Orange).
INTRODUCTION
The following tables present results from barley and wheat varietal tests conducted in Virginia in 2003-2005. Small-grain cultivar performance tests are conducted each year in Virginia by the Virginia Tech Department of Crop and Soil Environmental Sciences and the Virginia Agricultural Experiment Station. The tests provide information to assist Virginia Cooperative Extension Service agents in formulating cultivar recommendations for small-grain producers and to companies developing cultivars and/or marketing seed within the state. Yield data are given for individual locations and across locations and years; yield and other performance characteristics are averaged over the number of locations indicated. Performance of a given variety often varies widely over locations and years which makes multiple location-year averages a more reliable indication of expected performance than data from a single year or location. All tests in 2003-2005 were grown in seven-inch rows planted at 22 seeds per row foot with the exception of Blacksburg and Warsaw which were grown in six-inch rows at 22 seeds per row foot and the No-Till test at Warsaw which was grown in 7.5 inch rows at 28 seeds per row foot. Details about management practices for barley and wheat are listed for each experimental location.

THE SEASON
The 2004-2005 small grain crop began with near average temperatures in October. Fall temperature overall was 1.7°F above long term mean (Figure 1) mainly due to November, which was much warmer than average. While the month of November was rainy, overall fall precipitation was 97% of normal (Figure 2). Spring and winter temperatures were near average with unseasonably warm periods in early January. Late winter saw many small grain fields that were stunted or tillering poorly due to late planting, inadequate topsoil moisture, and especially cold temperatures. This same trend was evident into March with small grains developing slowly. Concerns over cold temperature damage were felt statewide but more so in the Southern and Eastern counties. May was more than 3°F cooler than normal and was especially dry. Spring rainfall was 17% below the amount normally recorded for that time of year. A cool and mostly dry May contributed to conditions that were very favorable for a long grain fill period leading to good yields and high test weight. Small grain harvest occurred several days later than normal due to the cool May temperatures.

Figure 1.

Figure 2.
Virginia producers planted an estimated 60,000 acres of barley in 2004-05, an increase of 9% over the previous year. Grain harvest occurred on 72% of planted acres for the 2003-2004 crop and an estimated 73% (44,000 acres) for the current year. At a projected 83 bushels per acre, yields were nine bushels per acre higher than the 74 bushel per acre average of 2003-2004 and also well above the 10-yr state-wide average of 75 bushels per acre. Planted acres for wheat were estimated at 210,000 acres in 2004-05 which was very similar to the previous year. Harvested acres in 2004-05 decreased compared to 2003-04 to an estimated 170,000 acres. Statewide average yield was estimated at 57 bushels per acre, as compared to a statewide average of 55 bushels per acre in 2003-04 and was one bushel per acre lower than the 10 year average (58 bu/A). Overall wheat production is expected to be 9.7 million bushels, down two percent from last year.

SECTION 1 - BARLEY VARIETIES

**Hulless Barley**

Prior to the early 1990’s winter barley cultivars available and grown in the U. S. Mid Atlantic Region were traditional hulled feed barley types. Traditional hulled barley has been grown for centuries in the Mid-Atlantic Region on many farms as feed for all classes of livestock. Demand for high energy, low fiber grain by the vertically integrated swine and poultry industries, and availability of brewer’s distilled grains for the beef and dairy industries have resulted in greatly reduced demand for traditional barley. In an effort to recapture a share of this feed market, emphasis has been placed on the development of the more energy dense hulless type of barely. Hulless barley grows and looks like regular barley until nearly mature. When almost mature, the glumes start to separate from the seed. The grain is separated from the glumes when combined. Grain of hulless barley looks more like wheat than traditional barley.

Yields of current hulless barley lines are generally 10-20 percent lower than those of hulled barley lines. This is expected since the hull makes up 12-15 percent of the weight of traditional barley and the breeding program for hulless barley is relatively new.

During the past 10 years, the Virginia Tech barley breeding program has developed hulless lines that yield 5-18 bushels per acre higher than initial winter hulless lines. Many of these lines have improved straw strength and grain plumpness and have higher resistance to prevalent diseases. Meanwhile, increased interest in the use of hulless barley varieties having high energy and digestibility in manufacturing food and fuel products, as well as feed, has accentuated the desire to develop winter hulless barley varieties having greater marketability in both domestic and
foreign markets. Additionally, barley grain contains health-related compounds similar to those found in oats, adding to its appeal in the health-food sector. The use of barley in ethanol production may soon become a reality and will provide a viable market for hulless barley produced in the Mid-Atlantic region. From the outset, the breeding program was based on crosses made between adapted hulled winter barley lines/cultivars with hulless lines of diverse origin. The program collaborated with nutritionists and chemists to identify and improve the nutritional and chemical quality of hulless barley for specific end uses. The breeding program’s first major achievement was the release of ‘Doyce’ winter hulless barley variety in 2003. In collaboration with the USDA-ARS Eastern Regional Research Center, data on chemical and nutritional composition, including protein, starch, lipid and beta glucan concentrations, have been obtained on most barley lines tested in replicated yield trials. To date, significant progress has been made in the development of winter hulless barley lines. The program has developed more than 3,000 winter hulless barley populations. Over one hundred advanced winter hulless barley lines are being evaluated in four states (Maryland, Pennsylvania, Kentucky and Delaware). Doyce hulless barley being produced in 2005 will be evaluated in pilot studies for its potential use in ethanol production and as an improved feed component in poultry rations. Continued efforts will be focused on development of hulless barley varieties for specific end-use markets benefiting producers in the Mid-Atlantic Region.

The two year average yield for Doyce hulless barley in Virginia was 82 bushels per acre with test weight of 55 pounds per bushel.

**Hulled Barley**

Virginia grown barley typically yields in excess of 100 bushels per acre, and fits well in many crop rotation systems. However, profitable barley production on over 50,000 acres in Virginia will require revival of international market opportunities and/or development of barley varieties that livestock feeders desire.

Newer hulled barley lines performed well with statewide yields of Thoroughbred at 129 bushels per acre and average test weight of 47.4 pounds per bushel. Thoroughbred has plump, bright seed and large awns that break easily at harvest. The 2002 release Price averaged 120 bushels per acre with a test weight of 47.5 pounds per bushel. Two year average yields of the released varieties Thoroughbred, Callao, and Price all reached 117 bushels per acre or better. Price, Callao, and Thoroughbred all had two year mean test weight values significantly higher than the test mean. Hopefully these new varieties with improved genetic traits for test weight and other quality factors along with improved agronomic traits will enhance the marketability of Virginia grown barley.

**Summary of barley management practices for the 2005 harvest season (All rates are given on a per acre basis.)**

**Blacksburg** - Planted October 10, 2004. Preplant fertilizer was 25-80-120 on September 23, 2004. Site was fertilized with 65-0-0 plus 0.6 oz Harmony Extra® on April 6, 2005. Harvest occurred on June 16, 2005.

**Blackstone** - Planted October 19, 2004. Preplant fertilizer was 300 lb 10-20-20 on October 6, 2004. Site was fertilized with 40 lb N using 30%UAN and sprayed with 0.5 oz Harmony Extra® on January 25, 2005. Site was sprayed with 4.75 oz Osprey® on February 17, 2005. Site was fertilized with 60 lb N using 30%UAN March 15, 2005. Site was sprayed with 2.5 oz Warrior® May 4, 2005. Harvest occurred on June 14, 2005.

**Painter** - Planted November 2, 2004. Preplant fertilization was 500 lb 5-10-10 on November 1, 2004. Site was fertilized with 70 lb N and sprayed with 0.5 oz Harmony Extra® and 0.75 pt 2,4-D March 31, 2005. Harvest occurred on June 21, 2005.

**Warsaw** - Planted October 27, 2004. Preplant fertilizer was 30-80-80-5 applied October 9, 2004. Site was sprayed with 0.4 oz Finesse® on February 9, 2005. Fertilization at 40 lb N using 24-0-0-3 was applied February 9, 2005 and again on March 31, 2005. Harvest occurred June 12-13, 2005.

**Orange** - Planted October 7, 2004. Preplant fertilization was 25-118-40 on October 5, 2004. Sixty lb N and Harmony Extra® at 0.4 oz were applied March 11, 2005. Harvest occurred on June 14, 2005.
Table 1. Summary of performance of hulless entries in the Virginia Tech Barley Test over locations (Blacksburg, Painter and Warsaw, VA), 2005 harvest.

<table>
<thead>
<tr>
<th>Hulless Lines</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Leaf Blotch (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging Blotch (0-2-10)</th>
<th>Leaf Rust (0.2-10)</th>
<th>Leaf Spot (0-9)</th>
<th>Septoria (1)</th>
<th>Winter Survival %</th>
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<td>VA01H-44</td>
<td>87 + 55.3</td>
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<td>33 - 1.8 +</td>
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<td>22 -</td>
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<td>VA00H-10</td>
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Average 80 56.1 25 34 1.1 6 1 0 0 50
C.V. 6 1
LSD (0.05) 4 0.5 1 1 0.5 1 1 1 0 20

Released cultivars are shown in bold print. Varieties are ordered by descending statewide yield averages. Yields from Blackstone and Orange were not included in the over-location averages. A plus or minus sign indicates a performance significantly above or below the test average, where hulled and hulless lines have been statistically analyzed separately. The number in parentheses below column headings indicates the number of locations on which data are based.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is barley unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is barley standing upright and 5 is barley totally flat.

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Hulless barley is similar to hulled barley except the glumes thrash free of the seed when combined. Since the hulls make up about 15% of the dry grain weight, yields of hulless barley are expected to be about 15% lower than hulled barley.

<table>
<thead>
<tr>
<th>Hulless Lines</th>
<th>Yield (Bu/a)</th>
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<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Net Blotch (0-9)</th>
<th>Leaf Rust (0-9)</th>
<th>Leaf Spot (0-9)</th>
<th>Septoria (0-9)</th>
<th>Winter Survival %</th>
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Average 75 55.7 24 33 0.8 6 2 0 0 0 57
C.V. 8 2
LSD (0.05) 3 0.5 0.4 1 0.3 1 1 1 1 0 22

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<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
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C.V. 9
LSD (0.05) 3

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<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
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<td>-</td>
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</table>

Released cultivars are shown in bold print.
Varieties are ordered by descending yield averages.
A plus or minus sign indicates a performance significantly above or below the test average, where hulled and hulless lines have been statistically analyzed separately.
Belgian Lodging Scale = Area x Intensity x 0.2. Area = 1-10, where 1 is barley unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is barley standing upright and 5 is barley totally flat.
Hulless barley is similar to hulled barley except the glumes thrash free of the seed when combined.
Since the hulls make up about 15% of the dry grain weight, yields of hulless barley are expected to be about 15% lower than hulled barley.

<table>
<thead>
<tr>
<th>Hulless Lines</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Lodging (0.2-10)</th>
<th>Leaf Rust</th>
<th>Leaf Spot</th>
<th>Septoria (0-9)</th>
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</thead>
<tbody>
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<tr>
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<td>- 0.6</td>
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<td>0</td>
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<tr>
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<tr>
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<tr>
<td>VA03H-217</td>
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<tr>
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<td>+ 0</td>
</tr>
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<td>0</td>
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</tr>
<tr>
<td>H-585</td>
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<td>- 57.4</td>
<td>1.5</td>
<td>0</td>
<td>1</td>
<td>+ 0</td>
</tr>
<tr>
<td>VA01H-122</td>
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<td>+ 1.4</td>
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<tr>
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<td><strong>LSD (0.05)</strong></td>
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<td>0</td>
</tr>
</tbody>
</table>

Released cultivars are shown in bold print.

Varieties are ordered by descending yield averages.

A plus or minus sign indicates a performance significantly above or below the test average, where hulled and hulless lines have been statistically analyzed separately.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is barley unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is barley standing upright and 5 is barley totally flat.

The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.

Hulless barley is similar to hulled barley except the glumes thrash free of the seed when combined. Since the hulls make up about 15% of the dry grain weight, yields of hulless barley are expected to be about 15% lower than hulled barley.

<table>
<thead>
<tr>
<th>Hulless Lines</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Winter Survival %</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA00H-72</td>
<td>106 +</td>
<td>55.2</td>
<td>24 -</td>
<td>39 +</td>
<td>92 +</td>
</tr>
<tr>
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<td>103 +</td>
<td>57.1</td>
<td>25</td>
<td>39 +</td>
<td>74 +</td>
</tr>
<tr>
<td>VA03H-259</td>
<td>101 +</td>
<td>54.3</td>
<td>25</td>
<td>38</td>
<td>99</td>
</tr>
<tr>
<td>VA00H-10</td>
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<td>55.3</td>
<td>25</td>
<td>39 +</td>
<td>56</td>
</tr>
<tr>
<td>VA00H-99</td>
<td>99</td>
<td>56.3</td>
<td>25</td>
<td>38</td>
<td>91 +</td>
</tr>
<tr>
<td>VA00H-70</td>
<td>99</td>
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<td>25</td>
<td>38</td>
<td>90 +</td>
</tr>
<tr>
<td>VA01H-3</td>
<td>94</td>
<td>57.1</td>
<td>25</td>
<td>38</td>
<td>76 +</td>
</tr>
<tr>
<td>VA00H-74</td>
<td>92</td>
<td>56.1</td>
<td>24 -</td>
<td>38</td>
<td>70 +</td>
</tr>
<tr>
<td>VA01H-1</td>
<td>90</td>
<td>56.1</td>
<td>25</td>
<td>37</td>
<td>86 +</td>
</tr>
<tr>
<td>H-585</td>
<td>90</td>
<td>55.6</td>
<td>23 -</td>
<td>40 +</td>
<td>89 +</td>
</tr>
<tr>
<td>VA01H-68</td>
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<td>57.2</td>
<td>22 -</td>
<td>36</td>
<td>64</td>
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<tr>
<td>VA01H-125</td>
<td>84</td>
<td>55.9</td>
<td>22 -</td>
<td>31 -</td>
<td>91 +</td>
</tr>
<tr>
<td>VA01H-122</td>
<td>81</td>
<td>56.3</td>
<td>25</td>
<td>42 +</td>
<td>83 +</td>
</tr>
<tr>
<td><strong>DOYCE</strong></td>
<td>65 -</td>
<td>55.4</td>
<td>25</td>
<td>34</td>
<td>16 -</td>
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<td>53.7</td>
<td>25</td>
<td>35</td>
<td>22 -</td>
</tr>
<tr>
<td>VA03H-217</td>
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<td>25</td>
<td>34</td>
<td>11 -</td>
</tr>
<tr>
<td>VA03H-244</td>
<td>44 -</td>
<td>55.2</td>
<td>26 +</td>
<td>33 -</td>
<td>17 -</td>
</tr>
<tr>
<td>VA03H-239</td>
<td>NA*</td>
<td>55.4</td>
<td>26 +</td>
<td>31 -</td>
<td>5 -</td>
</tr>
<tr>
<td>VA01H-37</td>
<td>NA*</td>
<td>53.9</td>
<td>25</td>
<td>33 -</td>
<td>9 -</td>
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<td>VA01H-26</td>
<td>NA*</td>
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<td>33 -</td>
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<td>26 +</td>
<td>32 -</td>
<td>5 -</td>
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<td>NA*</td>
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<td>25</td>
<td>34</td>
<td>4 -</td>
</tr>
<tr>
<td>VA03H-235</td>
<td>NA*</td>
<td>51.8</td>
<td>27 +</td>
<td>32 -</td>
<td>3 -</td>
</tr>
<tr>
<td><strong>Average</strong></td>
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<td><strong>55.1</strong></td>
<td><strong>25</strong></td>
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<tr>
<td><strong>LSD (0.05)</strong></td>
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<td><strong>3</strong></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

* Yields are not being reported for these lines; yields were compromised by extremely low winter survival.

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Table 7. Summary of performance of hulless entries in the Virginia Tech Barley Test, Kentland Farm, Blacksburg, VA, 2005 harvest.

<table>
<thead>
<tr>
<th>Hulless Lines</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Net Blotch</th>
<th>Leaf Rust</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA01H-44</td>
<td>87</td>
<td>+</td>
<td>54.4</td>
<td>27</td>
<td>30</td>
<td>4.1</td>
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<tr>
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<td>27</td>
<td>33</td>
<td>1.9</td>
<td>-</td>
</tr>
<tr>
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<td>56.0</td>
<td>26</td>
<td>32</td>
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<td>-</td>
</tr>
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<td>54.4</td>
<td>27</td>
<td>29</td>
<td>2.8</td>
<td>1</td>
</tr>
<tr>
<td>VA03H-228</td>
<td>83</td>
<td>+</td>
<td>55.4</td>
<td>29</td>
<td>29</td>
<td>1.7</td>
<td>-</td>
</tr>
<tr>
<td>VA01H-68</td>
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<td>23</td>
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<td>6</td>
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<td>32</td>
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<tr>
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<td>1.7</td>
<td>6</td>
<td>1</td>
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<tr>
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<td>28</td>
<td>1.3</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>VA01H-122</td>
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<td>-</td>
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<td>27</td>
<td>33</td>
<td>1.8</td>
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</tr>
<tr>
<td>Average</td>
<td>77</td>
<td>55.3</td>
<td>27</td>
<td>30</td>
<td>2.1</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>C.V.</td>
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<td>1</td>
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</tr>
<tr>
<td>LSD (0.05)</td>
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<td>1.6</td>
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<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Hulless Lines</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Lodging (0.2-10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA01H-44</td>
<td>74</td>
<td>+ 55.6</td>
<td>0.2</td>
</tr>
<tr>
<td>VA01H-68</td>
<td>67</td>
<td>+ 58.5 + 0.7</td>
<td>+</td>
</tr>
<tr>
<td><strong>DOYCE</strong></td>
<td>66</td>
<td>55.7</td>
<td>0.2</td>
</tr>
<tr>
<td>VA03H-235</td>
<td>65</td>
<td>56.4</td>
<td>0.2</td>
</tr>
<tr>
<td>VA00H-72</td>
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<td>56.7 + 0.2</td>
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Released cultivars are shown in bold print.
Varieties are ordered by descending yield averages.
A plus or minus sign indicates a performance significantly above or below the test average, where hulled and hulless lines have been statistically analyzed separately.
Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is barley unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is barley standing upright and 5 is barley totally flat. Hulless barley is similar to hulled barley except the glumes thresh free of the seed when combined. Since the hulls make up about 15% of the dry grain weight, yields of hulless barley are expected to be about 15% lower than hulled barley.

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<th>Hulled Lines</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
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<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
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Average 117 46.3 25 36 1.9 4 3 92
C.V. 7 2
LSD (0.05) 6 0.6 1 1 0.8 1 1 17

Released cultivars are shown in bold print.

Varieties are ordered by descending statewide yield averages. Yields from Blackstone were not included in over-location averages. A plus or minus sign indicates a performance significantly above or below the test average, where hulled and hulless lines have been statistically analyzed separately.

The number in parentheses below column headings indicates the number of locations on which data are based. Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is barley unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is barley standing upright and 5 is barley totally flat.

The 0-9 ratings indicate a genotype’s response to disease, where 0 = highly resistant and 9 = highly susceptible.

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<thead>
<tr>
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Released cultivars are shown in bold print.

Varieties are ordered by descending statewide yield averages.

A plus or minus sign indicates a performance significantly above or below the test average, where hulled and hulless lines have been statistically analyzed separately.

The number in parentheses below column headings indicates the number of location-years on which data are based.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is barley unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is barley standing upright and 5 is barley totally flat.

The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.

<table>
<thead>
<tr>
<th>Hull Lines</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
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<td></td>
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</table>

| Average          | 111          | 46.8                | 23 - 36              |             | 1.4              |
| C.V.             | 7            | 2                   |                      |             |                  |
| LSD (0.05)       | 10           | 1.2                 | 1 - 3                |             | 0.8              |

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Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is barley unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is barley standing upright and 5 is barley totally flat.

<table>
<thead>
<tr>
<th>Hulled Lines</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Lodging (0.2-10)</th>
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<td>- 0.7</td>
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<td>+ 4.2</td>
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Average 106 46.8 2.7
C.V. 6 2
LSD (0.05) 10 1.4 1.3

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Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is barley unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is barley standing upright and 5 is barley totally flat.

<table>
<thead>
<tr>
<th>Hulled Lines</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
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The 0-9 ratings indicate a genotype’s response to disease, where 0 = highly resistant and 9 = highly susceptible.
Table 15. Summary of performance of hulled entries in the Virginia Tech Barley Test, Kentland Farm, Blacksburg, VA, 2005 harvest.

<table>
<thead>
<tr>
<th>Hull Lines</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/BU)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (ln)</th>
<th>Lodging (0.2-10)</th>
<th>Net Blotch</th>
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<td>+ 25</td>
<td>- 33</td>
<td>2.7</td>
<td>5 + 3</td>
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<tr>
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<td>34 +</td>
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<td>32 +</td>
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<td>- 6 +</td>
</tr>
<tr>
<td>WYSOR</td>
<td>114</td>
<td>44.4</td>
<td>- 30</td>
<td>+ 38 +</td>
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<td>113</td>
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<td>24</td>
<td>- 30 -</td>
<td>2.6</td>
<td>6</td>
<td>+ 5 +</td>
</tr>
<tr>
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<td>112</td>
<td>43.8</td>
<td>- 24</td>
<td>- 30</td>
<td>4.6</td>
<td>+</td>
<td>6 + 2 -</td>
</tr>
<tr>
<td>VA92-42-46</td>
<td>109</td>
<td>46.7</td>
<td>28</td>
<td>39 +</td>
<td>2.9</td>
<td>9</td>
<td>+ 0 -</td>
</tr>
<tr>
<td>BARSOY</td>
<td>86</td>
<td>- 44.1</td>
<td>- 24</td>
<td>- 33</td>
<td>1.0</td>
<td>3</td>
<td>- 9 +</td>
</tr>
<tr>
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<td>33</td>
<td>2.5</td>
<td>4</td>
<td>3</td>
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<tr>
<td>C.V.</td>
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<td>2</td>
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<td>1</td>
<td>2.0</td>
<td>1</td>
<td>1</td>
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</tbody>
</table>

Released cultivars are shown in bold print.
Varieties are ordered by descending yield averages.
A plus or minus sign indicates a performance significantly above or below the test average, where hulled and hulless lines have been statistically analyzed separately.
Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is barley unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is barley standing upright and 5 is barley totally flat.
The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.

<table>
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<tr>
<th>Hulled Lines</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Lodging (0.2-10)</th>
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<td>4.0 +</td>
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<tr>
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<td>0.2</td>
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<td>+ 1.2</td>
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<td>+ 2.1</td>
</tr>
<tr>
<td>VA03B-55</td>
<td>109</td>
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<td>+ 0.6</td>
</tr>
<tr>
<td>MD 931046-38</td>
<td>109**</td>
<td>43.3</td>
<td>- 0.6</td>
</tr>
<tr>
<td>PRICE</td>
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<td>+ 0.5</td>
</tr>
<tr>
<td>VA97B-175</td>
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<td>+ 0.6</td>
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<td>102</td>
<td>48.8</td>
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<td>THOROUGHBRED</td>
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<td>0.2</td>
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<td>- 0.3</td>
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<td>4.9 +</td>
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<tr>
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<td>+ 1.6</td>
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<tr>
<td>VA03B-5</td>
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<td>48.7</td>
<td>+ 0.2</td>
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<tr>
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<td>6.8 +</td>
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<td>MD 931048-38</td>
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<td>- 0.5</td>
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<td>NA*</td>
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<td>0.7</td>
</tr>
<tr>
<td>VA92-42-46</td>
<td>NA*</td>
<td>46.3</td>
<td>0.2</td>
</tr>
<tr>
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<td>NA*</td>
<td>45.3</td>
<td>- 0.4</td>
</tr>
<tr>
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<td>NA*</td>
<td>43.4</td>
<td>- 0.9</td>
</tr>
<tr>
<td>BARSOY</td>
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<td>- 0.7</td>
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<tr>
<td>** Average **</td>
<td>** 101</td>
<td>** 46.7</td>
<td>** 1.5</td>
</tr>
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<td>C.V.</td>
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<td></td>
</tr>
<tr>
<td>LSD (0.05)</td>
<td>17</td>
<td>1.4</td>
<td>2.0</td>
</tr>
</tbody>
</table>

* Yields are not being reported for these lines due to deer damage.
** Yields may have been affected by deer damage.

Released cultivars are shown in bold print.
Varieties are ordered by descending yield averages.
A plus or minus sign indicates a performance significantly above or below the test average, where hulled and hulless lines have been statistically analyzed separately.
Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is barley unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is barley standing upright and 5 is barley totally flat.
SECTION 2 - WHEAT VARIETIES

When evaluating wheat variety performance as presented in this report, one should consider the use of seed treatment. Certain entries in this test have different seed treatments that may greatly impact performance. Seed treatments are indicated by an acronym in parentheses following the name. "B" is Baytan®, "D" is Dividend®, "R" is raxil, and "T" is thiram. For example, USG3209 (RT) indicates that this entry was treated with raxil and thiram. Virginia Tech experimental lines and some public varieties such as Massey were treated with raxil and thiram.

Selecting the best wheat varieties is challenging but becomes easier with adequate information on performance over multiple environments. Past seasons across Virginia have provided the opportunity to evaluate daylength sensitivity, spring freeze damage, glume blotch, scab (Fusarium head blight), and general plant health. Many newer wheat varieties and lines performed well in all environments tested.

The future for wheat varieties adapted to Virginia conditions is very positive. Dr. Carl Griffey, Virginia Tech's small grains breeder, has many lines starting with "VA" shown in the by-location tables that are in the top-yielding group and that display good disease resistance.

The released varieties that yielded significantly higher than the statewide mean in 2005 were SS MPV 57, SS 560 treated with Raxil, Renwood 3260, USG 3209 treated with Raxil and Thiram, SS 8404, 3706, Featherstone 176, Pioneer 26R24 treated with Dividend, SS 520 treated with Raxil, and Vigoro 9412 treated with Dividend. These varieties excelled in all geographic regions of the Commonwealth. It should be noted that disease pressure, especially from powdery mildew, was slight at most testing locations for the 2004-05 growing season. The fact that varieties with a wide maturity range and other characteristics did well this year is promising in that producers have the opportunity to select good varieties to fit different management schemes. Test weights overall were very high due to favorable environmental conditions during grain fill. This lack of stress resulted in little difference among varieties tested and thus only a few were shown to have test weights significantly above or below the trial mean.

Varieties with three year average yields higher than the statewide average include SS MPV 57, Featherstone 176, USG 3209 treated with Raxil and Thiram, SS 560 treated with Raxil, SS 520 treated with Raxil, Tribute, Pioneer 26R24 treated with Dividend, and SS 550 treated with Baytan. Of these, only Tribute also had above average test weight.

Other varieties with above average yields but only two years of data are Renwood 3260, Vigoro 9412 treated with Dividend, and Pioneer 26R15 treated with Dividend. Renwood 3260 and Vigoro 9412 also have above average grain test weight based on data from 2004 and 2005 harvests.
Summary of wheat management practices for the 2005 harvest season (All rates are given on a per acre basis.)

Blacksburg - Planted November 11, 2004. Preplant fertilizer was 25-80-120 applied September 23, 2004. Harmony Extra® was applied at 0.6 oz on April 6 2005 with 80-0-0. Harvest occurred on July 12, 2005.

Warsaw - Planted October 27, 2004. Preplant fertilizer was 30-80-80-5 applied October 9, 2004. Site was sprayed with 0.4 oz Finesse® on February 9, 2005. Fertilization at 40 lb N using 24-0-0-3 was applied February 9, 2005 and at 60 lb N on March 31, 2005. Harvest occurred June 25, 2005.

Blackstone - Planted October 19, 2004. Preplant fertilizer was 300 lb 10-20-20 on October 6, 2004. Site was fertilized with 40 lb N using 30%UAN and sprayed with 0.5 oz Harmony Extra® on January 25, 2005. Site was sprayed with 4.75 oz Osprey® on February 17, 2005. Site was fertilized with 60 lb N using 30%UAN March 15, 2005. Site was sprayed with 2.5 oz Warrior® May 4, 2005. Harvest occurred on June 28, 2005.

Painter - Planted November 2, 2004. Preplant fertilizer was 500 lb 5-10-10 on November 1, 2004. Site was fertilized with 90 lb N and sprayed with 0.5 oz Harmony Extra® and 0.75 pt 2,4-D March 31, 2005. Harvest occurred on July 6, 2005.


Orange - Planted October 7, 2004. Preplant fertilization was 25-118-40 on October 5, 2004. Sixty lb N and Harmony Extra® at 0.4 oz were applied March 11, 2005. Harvest occurred on June 23, 2005.

Shenandoah Valley - Planted October 11, 2004. Preplant fertilizer was 40-90-100-10 plus 2 tons lime. Seventy-five lb N and 0.5 oz Harmony Extra® were applied March 17, 2005. Harvest occurred July 11, 2005.

<table>
<thead>
<tr>
<th>Line</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Yellow Dwarf Virus</th>
<th>Stripe Rust</th>
<th>Stripe Rust Reaction Type</th>
<th>Winter Survival</th>
<th>Hessian Fly Resistance</th>
</tr>
</thead>
<tbody>
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<td>VA01W-205</td>
<td>80 + 59.6</td>
<td>39</td>
<td>31 -</td>
<td>0.2</td>
<td>0</td>
<td>0</td>
<td>3 -</td>
<td>2</td>
<td>MR</td>
<td>100</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>SS MPV 57</td>
<td>80 + 58.4</td>
<td>41 + 37</td>
<td>0.2</td>
<td>1 +</td>
<td>3</td>
<td>5 +</td>
<td>7 +</td>
<td>S</td>
<td>94 BCE</td>
<td>100</td>
<td>---</td>
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</tr>
<tr>
<td>VA03W-415</td>
<td>79 + 57.5</td>
<td>37 - 34</td>
<td>0.2</td>
<td>0</td>
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<td>3</td>
<td>7 +</td>
<td>S</td>
<td>98</td>
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<tr>
<td>SS 560(R)</td>
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<td>3 + 3</td>
<td>5 +</td>
<td>94 BCE</td>
<td>100</td>
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</tr>
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<td>78 + 58.8</td>
<td>40 + 36 + 1.0</td>
<td>0</td>
<td>1 - 2</td>
<td>6 +</td>
<td>96 C</td>
<td>100</td>
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</tr>
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<td>VA03W-409</td>
<td>78 + 58.3</td>
<td>42 + 33</td>
<td>0.2</td>
<td>1 - 2</td>
<td>6 +</td>
<td>96 C</td>
<td>100</td>
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<td>VA03W-412</td>
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<td>0.2</td>
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<td>3 -</td>
<td>96 C</td>
<td>100</td>
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<td>MR</td>
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<td>78 + 59.1</td>
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<td>1 - 4 +</td>
<td>98 BCE</td>
<td>100</td>
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<td>2 -</td>
<td>96 BCE</td>
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<td>77 + 58.7</td>
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<td>3 + 2</td>
<td>1 -</td>
<td>94 E</td>
<td>100</td>
<td>BCDE</td>
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<td>94 E</td>
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<td>3706</td>
<td>77 + 59.1</td>
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<td>76 + 58.9</td>
<td>40 + 31</td>
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<td>5 + 3</td>
<td>7 +</td>
<td>96 BCE</td>
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<td>3 -</td>
<td>S</td>
<td>96 BCE</td>
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<td>2 - 5 +</td>
<td>99 CE</td>
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<tr>
<td>SS 520(R)</td>
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<td>3 + 6 +</td>
<td>98 BCE</td>
<td>100</td>
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<td>2 - 2</td>
<td>1 -</td>
<td>96 BCE</td>
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<td>BCDE</td>
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<td>2</td>
<td>3 + 4</td>
<td>98 BCE</td>
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<td>1 - 3</td>
<td>3 - S</td>
<td>98 BCE</td>
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<td>42 + 33 - 0.2</td>
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<td>2</td>
<td>3 + 4 + S</td>
<td>98 BCE</td>
<td>100</td>
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<td>39 - 36 + 0.2</td>
<td>0</td>
<td>3 + 3</td>
<td>2 - MS</td>
<td>99 BCE</td>
<td>100</td>
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<td>SISSON</td>
<td>74 + 58.8</td>
<td>38 - 33 - 0.5</td>
<td>0</td>
<td>6 + 4 + 6 + S</td>
<td>98 BCE</td>
<td>100</td>
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<td>3 - 1 - MR</td>
<td>96 BCE</td>
<td>100</td>
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<tr>
<td>VA01W-21</td>
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<td>39 + 34</td>
<td>0.3</td>
<td>0</td>
<td>3 + 2 - 7 + MS</td>
<td>96 BCE</td>
<td>100</td>
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Table 17, continued. Summary of performance of entries in the Virginia Tech Wheat Test, 2005 harvest.

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<tr>
<th>Line</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Barley Yellow Dwarf Virus</th>
<th>Stripe Rust</th>
<th>Stripe Rust Reaction Type</th>
<th>Winter Survival</th>
<th>Hessian Fly Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA02W-513</td>
<td>74</td>
<td>59.3</td>
<td>39</td>
<td>32</td>
<td>-</td>
<td>0.2</td>
<td>0</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>I</td>
<td>100</td>
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### Table 17, continued. Summary of performance of entries in the Virginia Tech Wheat Test, 2005 harvest.

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<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Barley Yellow Dwarf Virus</th>
<th>Stripe Rust</th>
<th>Stripe Rust Reaction Type</th>
<th>Winter Survival %</th>
<th>Hessian Fly Resistance</th>
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Released cultivars are shown in bold print.

Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the average.

The number in parentheses below column headings indicates the number of locations on which data are based.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.

The 0-9 ratings indicate a genotype’s response to disease, where 0 = highly resistant and 9 = highly susceptible.

Stripe rust reaction type indicators are as follows: R = resistant, MR = moderately resistant, I = intermediate, S = susceptible, and MS = moderately susceptible.

Seedlings of all lines were tested for resistance to five biotypes of Hessian Fly, including B, C, D, E, and L. None showed good resistance to L.

Letters in column indicate varietal resistance to specified biotype(s). Lines lacking letters were susceptible to all biotypes.

<table>
<thead>
<tr>
<th>Line Type</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (in)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Barley Yellow Dwarf Virus</th>
<th>White Spindle Streak Virus</th>
<th>Stripe Rust Type</th>
<th>Stripe Rust Reaction</th>
<th>Winter Survival %</th>
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(1) % Survival
(2) Winter Survival
Table 18, continued. Two year average summary of performance of all entries in the Virginia Tech Wheat Tests, 2004 and 2005 harvests.

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<th>Line</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
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<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Barley Yellow Dwarf Virus</th>
<th>White Spindle Streak Virus</th>
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Released cultivars are shown in bold print.

Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the average.
The number in parentheses below column headings indicates the number of location-years on which data are based.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.
The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.

Stripe rust reaction type indicators are as follows: R=resistant, MR=moderately resistant, I=intermediate, S=susceptible, and MS=moderately susceptible.

<table>
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<tr>
<th>Line</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar 31+)</th>
<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew (0-9)</th>
<th>Leaf Rust (0-9)</th>
<th>Barley Yellow Dwarf Virus (0-9)</th>
<th>White Spindle Streak Virus (0-9)</th>
<th>Glume Blast (0-9)</th>
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**Table 19, continued. Three year average summary of performance of all entries in the Virginia Tech Wheat Tests, 2003, 2004, and 2005 harvests.**

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<tr>
<th>Line</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Barley Yellow Dwarf Virus</th>
<th>White Spindle Streak Virus</th>
<th>Glume Blotch</th>
<th>Stripe Rust</th>
<th>Stripe Rust Reaction Type</th>
<th>Winter Survival %</th>
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Released cultivars are shown in bold print.

Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the average.

The number in parentheses below column headings indicates the number of location-years on which data are based.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.

The 0-9 ratings indicate a genotype’s response to disease, where 0 = highly resistant and 9 = highly susceptible.

Stripe rust reaction type indicators are as follows: R=resistant, MR=moderately resistant, I=intermediate, S=susceptible, and MS=moderately susceptible.
<table>
<thead>
<tr>
<th>Line</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
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<th>Leaf Rust</th>
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<td>38 +</td>
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<td>2.2</td>
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<td>38 +</td>
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<td>42 +</td>
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Average 88 62.7 37 34 0.6 1 1
C.V. 5
LSD (0.05) 6 1.4 1 1 1.1 1 1

Released cultivars are shown in bold print.

Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the test average.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.

The 0-9 ratings indicate a genotype’s response to disease, where 0 = highly resistant and 9 = highly susceptible.

<table>
<thead>
<tr>
<th>Line</th>
<th>Yield (Bu/a)</th>
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<th>Stripe Rust</th>
<th>Stripe Rust Reaction</th>
<th>Type</th>
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Average 77 54.5 0 3

C.V. 8 1.8

LSD (0.05) 8 1.4 1 1

Released cultivars are shown in bold print.

Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the test average.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat. The 0-9 ratings indicate a genotype’s response to disease, where 0 = highly resistant and 9 = highly susceptible.

Stripe rust reaction type indicators are as follows: R=resistant, MR=moderately resistant, I=intermediate, S=susceptible, and MS=moderately susceptible.
Table 22. Summary of performance of entries in the Virginia Tech Wheat Test, Tidewater AREC, Holland, VA, 2005 harvest.

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<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
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## Table 22, continued. Summary of performance of entries in the Virginia Tech Wheat Test, Tidewater AREC, Holland, VA, 2005 harvest.

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Average 60 56.3  
C.V. 10 2.7  
LSD (0.05) 9 2.1

Released cultivars are shown in bold print. Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the test average.

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<th>Line</th>
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<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew</th>
<th>Barley Yellow Dwarf Virus</th>
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Table 23, continued. Summary of performance of entries in the Virginia Tech Wheat Test, Northern Piedmont AREC, Orange, VA, 2005 harvest.

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Average | 90 | 60.7 | 38 | 37 | 0.3 | 0 | 3 | 99 |
C.V. | 9 | 1.9 |
LSD (0.05) | 13 | 1.7 | 2 | 2 | 0.7 | 1 | 1 | 6 |

Released cultivars are shown in bold print.
Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the test average.
Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat. The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.

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Released cultivars are shown in bold print.
Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the test average.
Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.
The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.
Table 25. Summary of performance of entries in the Virginia Tech Wheat Test, Shenandoah Valley (Smith Farms in Rockbridge County), VA, 2005 harvest.

<table>
<thead>
<tr>
<th>Line</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Barley Yellow Dwarf (0-9)</th>
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<td>VA03W-412</td>
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Table 25, continued. Summary of performance of entries in the Virginia Tech Wheat Test, Shenandoah Valley (Smith Fams in Rockbridge County), VA, 2005 harvest.

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Average 54 60.1 3
C.V. 11 0.7
LSD (0.05) 9 0.6 2

Released cultivars are shown in bold print.
Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.

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<th>Test Weight (Lb/bu)</th>
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<th>Height (In)</th>
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<th>Leaf Rust (0-9)</th>
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### Table 26, continued. Summary of performance of entries in the Virginia Tech Wheat Test, Kentland farm, Blacksburg, VA, 2005 harvest.

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<td>C.V.</td>
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<td>1</td>
<td>0.35</td>
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Released cultivars are shown in bold print. Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the test average.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.

The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.
SECTION 3 - WHEAT PLANTED NO-TILL INTO CORN STUBBLE

Wheat was planted no-till into corn stubble at the Eastern Virginia AREC near Warsaw, Virginia. Cooperator Charles Sanford harvested the corn and shredded the stalks. Two quarts per acre Roundup Weathermax® were applied on September 13, 2004. Plots were planted using a Great Plains No-Till plot drill at 28 seeds per row foot in 7.5 inch rows on October 18, 2004 and preplant fertilizer of 30-80-80-5 was applied October 22, 2004. Nitrogen was applied at 40 and 80 pounds per acre as 24-0-0-3 on February 7, 2005 and April 8, 2005, respectively. Harmony Extra was applied at 0.6 ounces per acre on April 19, 2005. Plots were harvested on June 24, 2005.

A good stand was obtained by late fall. Due to a period of very cold nights in mid-winter, some winter injury was experienced and tillering was slightly less than normal going into early spring. The mean yield for the test was 90 bushels per acre reflecting the favorable growing conditions in late spring. Top yielding varieties of wheat when planted into corn residue without tillage were SS MPV 57, 3706, SS 560, and SS 520. All of these varieties yielded significantly more than the mean for the test. Most also did well in the conventional tillage tests. Long term, it will be beneficial in no tillage and conventional tillage when Fusarium resistance is increased in more varieties. Tribute, McCormick, Roane, and Neuse have a degree of resistance to scab spread in the head.

Table 27. Summary of performance of entries in the Virginia Tech No-tillage Wheat Test at Warsaw, 2005 harvest.

<table>
<thead>
<tr>
<th>Line</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Stripe Rust</th>
<th>Stripe Rust Reaction Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS MPV 57</td>
<td>104 +</td>
<td>62.0</td>
<td>37 + 37 + 0.2</td>
<td>1 + 4 + 4 + 4</td>
<td>S</td>
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<td></td>
<td></td>
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<tr>
<td>3706</td>
<td>103 +</td>
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<td>31 - 33 + 0.3</td>
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<td>1 - 4</td>
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<td>0 + 0 - 4 + 4</td>
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<td>3 + 6</td>
<td>+</td>
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<td>+</td>
<td>+</td>
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<td>3 + 5</td>
<td>+</td>
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<tr>
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<td>0</td>
<td>0 - 8</td>
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Table 27, continued. Summary of performance of entries in the Virginia Tech No-tillage Wheat Test at Warsaw, 2005 harvest.

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<th>Line</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
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Table 27, continued. Summary of performance of entries in the Virginia Tech No-tillage Wheat Test at Warsaw, 2005 harvest.

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<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Stripe Rust</th>
<th>Stripe Rust Reaction Type</th>
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Released cultivars are shown in bold print.
Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the test average.
The number in parentheses below column headings indicates the number of locations on which data are based.
Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.
The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.
Stripe rust reaction type indicators are as follows: R=resistant, MR=moderately resistant, I=intermediate, S=susceptible, and MS=moderately susceptible.

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<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0-2-10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Barley Yellow Dwarf Virus</th>
<th>Stripe Rust</th>
<th>Reaction</th>
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<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
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<tr>
<td>Pioneer 26R12(D)</td>
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<tr>
<td>Coker 9312(D)</td>
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<td>30</td>
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<td>0</td>
<td>1</td>
<td>2 S</td>
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<tr>
<td>Massey</td>
<td>64</td>
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<td>0</td>
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<td>5 + S</td>
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<tr>
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<td>0</td>
<td>2</td>
<td>1</td>
<td>4 MS</td>
</tr>
<tr>
<td>Neuse(R)</td>
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<td>C.V.</td>
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</tr>
<tr>
<td>LSD (0.05)</td>
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<td>0.1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1 2</td>
</tr>
</tbody>
</table>

Released cultivars are shown in bold print.
Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the average.
The number in parentheses below column headings indicates the number of years on which data are based.
Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat.
The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.
Stripe rust reaction type indicators are as follows: R=resistant, MR=moderately resistant, I=intermediate, S=susceptible, and MS=moderately susceptible.

<table>
<thead>
<tr>
<th>Line</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0-2.10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust (0-9)</th>
<th>Barley Yellow Dwarf Virus</th>
<th>Stripe Rust</th>
<th>Stripe Rust Reaction Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS MPV 57</td>
<td>84 +</td>
<td>58.2 +</td>
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<td>0.4</td>
<td>1 + 2</td>
<td>1</td>
<td>4</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>3706</td>
<td>83 +</td>
<td>58.8 +</td>
<td>33 -</td>
<td>30 -</td>
<td>0.2</td>
<td>0</td>
<td>0 - 2</td>
<td>1 - 4 + S</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>SS 560(R)</td>
<td>82 +</td>
<td>58.0 +</td>
<td>35 +</td>
<td>31 -</td>
<td>0.2</td>
<td>1 + 2</td>
<td>2 + 4</td>
<td>S</td>
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</tr>
<tr>
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<td>33 -</td>
<td>34 +</td>
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<td>1 + 1</td>
<td>5</td>
<td>S</td>
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<tr>
<td>FEATHERSTONE 176</td>
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<td>0</td>
<td>2 - 1</td>
<td>0 - R</td>
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<td></td>
</tr>
<tr>
<td>SS 520(R)</td>
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<td>57.5 -</td>
<td>31 -</td>
<td>34 + 1.0</td>
<td>1 + 0 - 2 + 8 +  S</td>
<td>4</td>
<td>1 - R</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>VA098W-342</td>
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<td>58.2 +</td>
<td>32 -</td>
<td>29 -</td>
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<td>0</td>
<td>0 - 1</td>
<td>4 - S</td>
<td></td>
<td></td>
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<tr>
<td>MV5-46</td>
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<td>59.5 +</td>
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<td>32 -</td>
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<td>0</td>
<td>2 - 1</td>
<td>5 - S</td>
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<td>79 +</td>
<td>58.6 +</td>
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<td>30 - 0.3</td>
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<td>4</td>
<td>1 - S</td>
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<td></td>
<td></td>
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<tr>
<td>PIONEER 26R58(D)</td>
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<td>32 -</td>
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<td>2 + 3</td>
<td>MS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS 550(B)</td>
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<td>57.9 +</td>
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<td>0 + 3 + 2 + 8 +  S</td>
<td>4 - S</td>
<td>1 - S</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRIBUTE</td>
<td>77 +</td>
<td>59.6 +</td>
<td>34</td>
<td>31 -</td>
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<td>0</td>
<td>0 - 1</td>
<td>4 - S</td>
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<td></td>
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<tr>
<td>McCORMICK</td>
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<td>59.7 +</td>
<td>34</td>
<td>31 -</td>
<td>0.2</td>
<td>0 + 3 + 1 - 1  S</td>
<td>4 + 1 - MS</td>
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<td>33 -</td>
<td>31 -</td>
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<td>4 + 1</td>
<td>2 - MS</td>
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<tr>
<td>VA01W-18</td>
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<td>32 -</td>
<td>0.2</td>
<td>0 + 1 - 3 + 3  S</td>
<td>4 - S</td>
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<td></td>
<td></td>
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<td>CHOPTANK(R)</td>
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<td>58.1 +</td>
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<td>29 -</td>
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<td>0</td>
<td>1 + 3 - 3 + 3  S</td>
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<tr>
<td>SISSON</td>
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<td>32 -</td>
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<td>5 + 1</td>
<td>7 + S</td>
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<tr>
<td>VA01W-353</td>
<td>74 +</td>
<td>57.6 -</td>
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<td>30 -</td>
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<td>2 - 1</td>
<td>3 - I</td>
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<td></td>
</tr>
<tr>
<td>VA00W-526</td>
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<td>58.9 +</td>
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<td>30 - 0.2</td>
<td>0 + 1 - 2 + 1 -  S</td>
<td>4 + 1 - MR</td>
<td>2 - MS</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>FEATHERSTONE 520(RT)</td>
<td>73 +</td>
<td>59.0 +</td>
<td>34</td>
<td>33 + 1.2</td>
<td>1 + 2 + 1 - 2 +  S</td>
<td>4 + 1 - MR</td>
<td>2 + 1 - S</td>
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<tr>
<td>CRAWFORD</td>
<td>72 -</td>
<td>58.5 +</td>
<td>31</td>
<td>33 + 1.0</td>
<td>1 + 0 - 1 - 1  S</td>
<td>4 + 1 - MS</td>
<td>2 + 1 - S</td>
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<tr>
<td>COKER 9184(D)</td>
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<td>60.3 +</td>
<td>37 +</td>
<td>32 -</td>
<td>0.2</td>
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<td>3 - S</td>
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<td>2 + 1 - S</td>
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<tr>
<td>NEUSE(R)</td>
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<td>33 + 0.4</td>
<td>0 + 0 - 2 + 6 +  S</td>
<td>4 + 1 - MR</td>
<td>2 + 1 - S</td>
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<td>37 + 0.9</td>
<td>1 + 5 + 2 + 5 - S</td>
<td>4 + 1 - S</td>
<td>2 + 1 - S</td>
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<tr>
<td>Average</td>
<td>76 +</td>
<td>58.5 +</td>
<td>34</td>
<td>32 + 0.4</td>
<td>0 + 2 - 1 + 4 -  S</td>
<td>4 + 1 - S</td>
<td>2 + 1 - S</td>
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<tr>
<td>C.V.</td>
<td>6</td>
<td>1</td>
<td>1</td>
<td>0.5</td>
<td>1 + 1 - 1 - 2</td>
<td>4 + 1 - S</td>
<td>2 + 1 - S</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Released cultivars are shown in bold print. Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the average. The number in parentheses below column headings indicates the number of years on which data are based.

Belgian Lodging Scale: Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat. The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.

Stripe rust reaction type indicators are as follows: R = resistant, MR = moderately resistant, I = intermediate, S = susceptible, and MS = moderately susceptible.

<table>
<thead>
<tr>
<th>One-year average 2005</th>
<th>Yield (Bu/acre)</th>
<th>Test Weight (Lb/bu)</th>
<th>Heading Date (Mar31+)</th>
<th>Height (Inches)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew</th>
<th>Barley Yellow Dwarf Virus</th>
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<tbody>
<tr>
<td></td>
<td>(7)</td>
<td>(7)</td>
<td>(3)</td>
<td>(2)</td>
<td>(1)</td>
<td>(0)</td>
<td>(0)</td>
</tr>
<tr>
<td>Trical 2115</td>
<td>72</td>
<td>+ 52.1</td>
<td>- 29</td>
<td>- 39</td>
<td>0.2</td>
<td>-</td>
<td>---</td>
</tr>
<tr>
<td>Arcia</td>
<td>67</td>
<td>53.5</td>
<td>- 30</td>
<td>47</td>
<td>+ 0.5</td>
<td>+</td>
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<tr>
<td>McCormick (wheat)</td>
<td>62</td>
<td>- 60.7</td>
<td>+ 41</td>
<td>+ 34</td>
<td>0.2</td>
<td>-</td>
<td>---</td>
</tr>
<tr>
<td>Average</td>
<td>67</td>
<td>55.4</td>
<td>33</td>
<td>40</td>
<td>0.3</td>
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</tr>
<tr>
<td>C.V.</td>
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<td>1</td>
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<td></td>
</tr>
<tr>
<td>LSD (0.05)</td>
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<th>Two-year average 2004 - 2005</th>
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<th>(6)</th>
<th>(5)</th>
<th>(2)</th>
<th>(1)</th>
<th>(1)</th>
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<tr>
<td>TRICAL 2115</td>
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<td>51.7</td>
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<td>39</td>
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<table>
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<tr>
<th>Three-year average 2003 - 2005</th>
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<th>(19)</th>
<th>(9)</th>
<th>(7)</th>
<th>(5)</th>
<th>(2)</th>
<th>(1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRICAL 2115</td>
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<td>29</td>
<td>38</td>
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<table>
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<tr>
<th>One-year average No till 2005</th>
<th>Arcia</th>
<th>Trical 2115</th>
<th>McCormick</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield (Bu/acre)</td>
<td>97</td>
<td>94</td>
<td>91</td>
</tr>
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<td>Test Weight (Lb/bu)</td>
<td>55.7</td>
<td>54.5</td>
<td>64.1</td>
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<tr>
<td>Heading Date (Mar31+)</td>
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<td>37</td>
</tr>
<tr>
<td>Height (Inches)</td>
<td>44</td>
<td>37</td>
<td>33</td>
</tr>
<tr>
<td>Lodging (0.2-10)</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Powdery Mildew</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Barley Yellow Dwarf Virus</td>
<td>---</td>
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<table>
<thead>
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<th>Average</th>
<th>Arcia</th>
<th>Trical 2115</th>
<th>McCormick</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield (Bu/acre)</td>
<td>94</td>
<td>58.1</td>
<td>29</td>
</tr>
<tr>
<td>Test Weight (Lb/bu)</td>
<td>5</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Heading Date (Mar31+)</td>
<td>1</td>
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<td>1</td>
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</tbody>
</table>

Yields were calculated using 60 lb/bu.

Varieties are ordered by descending statewide yield averages.

A plus or minus sign indicates a performance significantly above or below the test average.

The number in parentheses below column headings indicates the number of locations or location-years on which data are based.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is triticale unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is triticale standing upright and 5 is triticale totally flat.

The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.
SECTION 5 - MILLING AND BAKING QUALITY

Milling and baking quality of wheat lines grown in the 2003-2004 Virginia State Wheat Test were assessed by the USDA-ARS Soft Wheat Quality Laboratory (SWQL) in Wooster, Ohio (Table 31). Quality evaluations were conducted using 3000 gram seed samples from wheat lines grown at the Blacksburg, VA test site. The data presented here are for a single location and, therefore, are not a definitive measure of a given wheat line’s milling and baking quality. Quality varies from location to location and from year to year; therefore, data from multiple years and locations are needed to accurately define quality of a given wheat line. While wheat lines are listed in the table from highest to lowest “Millability Score”, this parameter alone is not indicative of end use quality, which relates to a cultivar’s suitability for use in manufacturing a vast array of products requiring flour with specific and diverse quality characteristics.

Milling and baking quality of wheat lines were compared to that of the check cultivar Massey. On the basis of 12 independent Allis-Chalmers milling quality evaluations conducted by the SWQL, Massey ranked 452 out of 734 cultivars for milling quality and has average milling qualities. In comparison, Sisson ranked 232 for milling quality and has better than average milling qualities on the basis of six independent evaluations. Neuse has excellent milling and pastry baking quality and ranks 4th out of 734 cultivars on the basis of three independent evaluations. Massey has moderately strong protein gluten strength while Sisson has weak protein gluten strength. Pastry baking quality of both cultivars is below average but acceptable. Lines receiving milling and baking quality scores of “A” have similar (numeric score = 100) or better (scores > 100) quality than Massey. Wheat lines receiving milling or baking quality scores below “D” may have questionable milling quality and/or baking quality for pastry products, such as cookies.

Milling quality scores of released cultivars ranged from 109 for Neuse to 78.5 for USG 3209 with seven cultivars and two experimental lines having similar or better milling quality than Massey (score ≥ 100). Flour yields ranged from a high of 79% for Neuse to a low of 75.7% for Choptank, compared to 77.7% for Massey. Pastry baking quality scores of released cultivars ranged from a high of 106.6 for USG 3592 to a low of 66.8 for Crawford. Three released cultivars and two experimental lines had similar or better baking quality than Massey (score of 100). Cookie diameters of released cultivars ranged from a low of 16.8 cm for Crawford to a high of 17.8 cm for USG 3592, compared to 17.5 cm for Massey.

Flour protein concentration varied from 8.56% for USG 3209 to 10.09% for Pioneer Brand 26R15, compared with 9.83% for Massey. Protein quality, specifically gluten strength, based on Lactic Acid Solvent Retention Capacity varied from a high of 118.2 for Pioneer 26R15 to a low of 80.5 for VAN98W-342, compared to 106.2 for the check cultivar Massey. Four released cultivars and one experimental line had scores of 115 or higher indicating that their protein gluten strength is stronger than average. Lines having lower Lactic Acid scores would produce a dough having weak gluten strength and more suitable for pastry products, while lines having higher Lactic Acid scores such as Pioneer 26R15 would produce a dough having stronger gluten strength and more suitable for cracker or certain bread products.
Table 31. Milling and baking quality of entries in the Virginia Tech Wheat Test based on evaluations of the 2004 harvest.

<table>
<thead>
<tr>
<th>LINE</th>
<th>No.</th>
<th>MILLING INDEX</th>
<th>BAKING INDEX</th>
<th>MILLING YIELD</th>
<th>BAKING YIELD</th>
<th>MILLABILITY</th>
<th>SCORE</th>
<th>SCORE</th>
<th>YIELD</th>
<th>INDEX</th>
<th>% CM</th>
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<td>Standard=Massey</td>
<td>452</td>
<td>12</td>
<td>109.42</td>
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<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>77.66</td>
<td>9.50</td>
<td>9.83</td>
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A major focus of Dr. Carl Griffey’s wheat breeding program is the development of adapted varieties with resistance to scab, Fusarium head blight (FHB), having reduced disease incidence and severity. Extensive past and ongoing effort by several members of Dr. Carl Griffey's staff including Jianli Chen, Julie Wilson, Daryoosh Nabati, Tom Pridgen, Pat O'Boyle, and Jason Kenner is paying off with the identification and development of new lines with increased scab resistance as well as good agronomic traits. Elite wheat lines and varieties having a FHB index \[(\text{incidence} \times \text{severity}) \times 100\] of $<$ 11 in 2003-04 were VA01W-99, Neuse, Massey, Coker B970051, VA01W-310, VA02W-519, Tribute, Pat, Coker 9295, and Vigoro 9412 (Table 43). Fusarium head blight index results from 2002-2004 demonstrate that released varieties such as McCormick, Tribute, Neuse, and Roane have reduced scab infection. Twenty-six SRW wheat lines possessing both high yield potential and scab resistance were selected among 268 lines evaluated in Virginia’s 2004 Scab Observation tests. One elite scab resistant SRW wheat line VA02W-713 ranked 1st in grain yield (77 Bu/Ac) among 54 entries in Virginia’s Advance Wheat Test over three locations, and will be entered in Virginia’s Official Variety Trials in 2005. In addition, a set of near isogenic lines incorporating resistance QTLs from W14 and Futai 8944 into Roane and Ernie backgrounds have been developed using molecular-marker assisted backcross breeding.

### Table 32. Summary of Reaction of Entries in the 2004-05 Virginia Tech State Wheat Test to Fusarium Head Blight, 2005 harvest.

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Table 32, continued. Summary of Reaction of Entries in the 2004-05 Virginia Tech State Wheat Test to Fusarium Head Blight, 2005 harvest.

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Table 32, continued. Summary of Reaction of Entries in the 2004-05 Virginia Tech State Wheat Test to Fusarium Head Blight, 2005 harvest.

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GRAND MEAN 78 19.4 15.3
CV (%) 10 21.6 26.1
LSD (0.05) 13 7.0 6.7
SED 8 4.2 4.0

Released cultivars are shown in bold print.
Varieties are ordered by descending index averages. A plus or minus sign indicates a performance significantly above or below the average.
Entries were planted in 2-row plots, 4 ft in length at Blacksburg, VA and were inoculated at 50% and 100% heading stages with Fusarium graminearum spore suspension (5 \times 10^4 spores/ml).
Scab Incidence (%): Percentage of infected spikes among 10 randomly selected spikes.
Scab Severity (%): Percentage of infected spikelets divided by total number of spikelets among 10 infected spikes.
Scab Index = Incidence X Severity/100; it is an overall indicator of scab resistance/susceptibility level.

Table 33. Two year average summary of Fusarium head blight (scab) and glume blotch resistance of entries in Virginia Tech Wheat Tests, 2004 and 2005 harvests.

<table>
<thead>
<tr>
<th>LINE</th>
<th>Incidence (%)</th>
<th>Severity (%)</th>
<th>INDEX</th>
<th>S.nordorum (0-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASSEY</td>
<td>60.0</td>
<td>13.7</td>
<td>8.2</td>
<td>4</td>
</tr>
<tr>
<td>PIONEER 26R15(D)</td>
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<td>9.1</td>
<td>6</td>
</tr>
<tr>
<td>COKER 9436(D)</td>
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<td>14.4</td>
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</tr>
<tr>
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<td>15.4</td>
<td>10.6</td>
<td>4</td>
</tr>
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<td>V9412(D)</td>
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<td>14.8</td>
<td>11.6</td>
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</tr>
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<td>VA01W-99</td>
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<td>3</td>
</tr>
<tr>
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<td>19.5</td>
<td>12.1</td>
<td>3</td>
</tr>
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<tr>
<td>MV5-46</td>
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<td>19.6</td>
<td>15.2</td>
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<tr>
<td>PIONEER 26R12(D)</td>
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<td>USG 3209(RT)</td>
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<td>15.4</td>
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Table 33, continued. Two year average summary of Fusarium head blight (scab) and glume blotch resistance of entries in Virginia Tech Wheat Tests, 2004 and 2005 harvests.

<table>
<thead>
<tr>
<th>LINE</th>
<th>Incidence (%)</th>
<th>Severity (%)</th>
<th>INDEX</th>
<th>S. nordorum (0-9)</th>
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</tr>
<tr>
<td>SS MPV 57</td>
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<td>20.3</td>
<td>17.5</td>
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<td>VAN98W-342</td>
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</tr>
<tr>
<td>SS 550(B)</td>
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<td>22.0</td>
<td>18.9</td>
<td>4</td>
</tr>
<tr>
<td>McCORMICK</td>
<td>82.5</td>
<td>22.8</td>
<td>19.0</td>
<td>3</td>
</tr>
<tr>
<td>SS 560(R)</td>
<td>72.5</td>
<td>27.6</td>
<td>19.4</td>
<td>3</td>
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<tr>
<td>FEATHERSTONE 520(RT)</td>
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<td>19.9</td>
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<td>3706</td>
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<td><strong>24.0</strong></td>
<td><strong>19.0</strong></td>
<td><strong>4</strong></td>
</tr>
</tbody>
</table>

Released cultivars are shown in bold print.
Varieties are ordered by descending index averages.
Entries were planted in 2-row plots, 4 ft in length at Blacksburg, VA and were inoculated at 50% and 100% heading stages with Fusarium graminearum spore suspension (5 x 10^4 spores/ml).

Scab Incidence (%): Percentage of infected spikes among 10 randomly selected spikes.
Scab Severity (%): Percentage of infected spikelets divided by total number of spikelets among 10 infected spikes.
Scab Index = Incidence X Severity/100; it is an overall indicator of scab resistance/susceptibility level.
The 0-9 ratings indicate a genotype’s response to disease, where 0 = highly resistant and 9 = highly susceptible. Ratings were taken in 2004.
Table 34. Three year average summary of Fusarium head blight (scab) and glume blotch resistance of entries in Virginia Tech Wheat Tests, 2003-2005 harvests.

<table>
<thead>
<tr>
<th>LINE</th>
<th>Incidence (%)</th>
<th>Severity (%)</th>
<th>INDEX</th>
<th>S.nordorum (0-9)</th>
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</thead>
<tbody>
<tr>
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<td>TRIBUTE</td>
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<td>McCORMICK</td>
<td>65.8</td>
<td>19.6</td>
<td>12.9</td>
<td>3</td>
</tr>
<tr>
<td>USG 3209(RT)</td>
<td>65.0</td>
<td>17.5</td>
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<td>MV5-46</td>
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<td>19.6</td>
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<td>SS 560(R)</td>
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<td>23.9</td>
<td>15.2</td>
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<td>VAN98W-342</td>
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</tr>
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<td>PIONEER 26R58(D)</td>
<td>70.8</td>
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<tr>
<td>SS 550(B)</td>
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<td>22.3</td>
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<tr>
<td>FEATHERSTONE 520(RT)</td>
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<td>25.3</td>
<td>19.7</td>
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<tr>
<td>COKER 9184(D)</td>
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<td>19.9</td>
<td>8</td>
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<td>CHOPTANK(R)</td>
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<td>SISSON</td>
<td>78.3</td>
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<tr>
<td>3706</td>
<td>76.7</td>
<td>28.3</td>
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<td>FEATHERSTONE 176</td>
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<td>CRAWFORD</td>
<td>75.0</td>
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<td>VA01W-353</td>
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<td>40.9</td>
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</table>

GRAND MEAN 68.0 23.3 18.0 4

Released cultivars are shown in bold print. Varieties are ordered by descending index averages.
Entries were planted in 2-row plots, 4 ft in length at Blacksburg, VA and were inoculated at 50% and 100% heading stages with Fusarium graminearum spore suspension (5 x 10^4 spores/ml).
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