

*Performance  
of Small Grain  
Varieties for  
Grain in  
Alabama,  
2012-13*

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# THE 2013 ALABAMA PERFORMANCE COMPARISON OF SMALL GRAIN VARIETIES

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## INTRODUCTION

The large number of commercially available varieties of wheat, oat, barley, and triticale makes it difficult for growers to select varieties most suited for their particular area of the State. Making this decision requires up-to-date, unbiased, reliable information on varietal yields and characteristics. This report is published annually to provide Alabama growers with this information.

Entries in each experiment are determined by the companies or institutes which control each variety or line, not by experiment station personnel. Data from tests conducted at eight locations were used to compile this report and they represent the varied growing conditions farmers experience around the State.

## PROCEDURE

The experimental design for the tests was a split plot design with species as the main plot and varieties as subplots. Plots were 5 feet by 20 feet with rows spaced 7 inches apart. A cone drill was used to plant all tests in the State. Each variety was replicated three times in each test.

**Grain only:** These tests are normally planted during late October to early November, which is approximately one month later than the forage tests. Planting dates for all tests in 2012 are shown in Table 1. All tests were fertilized with P and K according to soil test, plus 20 pounds N per acre at planting. A top dressing of 60 pounds N per acre was made in late February or early March, just prior to jointing. The plots were not sprayed to control disease, so that the varieties could be rated for their inherent disease resistance. The grain was allowed to mature and was harvested with a plot combine, then cleaned and weighed. Moisture and bushel test weight were measured.

**Forage only:** A forage test was not conducted during the 2012-2013 crop year.

## DATA EXPLANATION

Grain yields were calculated by weighing air-dried grain and using 60 pounds per bushel for wheat, 32 pounds per bushel for oat, 48 pounds per bushel for barley, 50 pounds per bushel for triticale. Lodging was measured as the percent of plants in the stand broken or leaning that would likely be missed by a combine. Height was measured from the ground to the top of the grain head. The 1/10 headed date is the date when approximately 10 percent of a plot showed fully emerged heads.

Disease ratings for the 2012-2013 variety trials for wheat, oats, and barley are summarized by region in Tables \_\_\_\_. Diseases were rated by members of the Dept. of Entomology and Plant Pathology; specifically, R. Trey Prevatt, Graduate Assistant, rated diseases at Headland, and helped at other sites. At all other sites in the south (Fairhope and Brewton), central (Tallasse, Marion Junction, and Prattville) and northern (Belle Mina and Crossville) regions, diseases were rated by Dr. K. L. Bowen, Professor of Plant Pathology, with additional assistance from Andrea Nelson. Rust diseases are rated on a severity scale ranging from 0 to 100, indicating the proportion of the flag leaves that are affected across the plot. All other diseases are rated on a scale of 0 to 9, where 0 indicates no disease, 4-5 reflects about half of the plants are moderately affected, and 9 = severe disease affecting all plants in plot. Diseases were rated as close to soft dough as could be scheduled.

### DISCUSSION

Growing conditions and variety performance often vary among locations and years. Growing season conditions in the 2012-13 were good for small grain production at almost all locations.

Disease pressure across Alabama was variable in the spring of 2013, with generally highest disease levels noted at Fairhope. This report does not include observations on wheat at Marion Junction. Leaf and glume blotch, caused by the same pathogen, were rated separately this year and were the most common and consistently found disease. Taken together, leaf and glume blotch occurred at slightly lower intensities at central and northern locations in 2013 than in 2012; however, these blotches were slightly higher at southern locations, especially at Fairhope. Powdery mildew is generally an early season disease, but was found in 2013 during grain fill at sometimes heavy intensities, especially at Crossville. This occurrence of powdery mildew is likely attributable to lower than normal temperatures throughout the region. Powdery mildew was not noticed at southern locations. Leaf rust was found at all locations, and was generally noted at lower intensities than in 2012. However, leaf rust was becoming problematic at Fairhope on five cultivars. Stripe rust was more prevalent than leaf rust and was more severe at northern and central locations than in 2012. No stripe rust was noted at Fairhope or Brewton. Intensity of barley yellow dwarf was lower than in the previous year, while Fusarium head blight (=scab) averaged greater intensity in 2013 than in 2012, especially at northern locations. Fusarium head blight was also found at Fairhope. Fusarium head blight occurrence is related to rain events at the time of wheat flowering.

Disease ratings on oats are not reported from Fairhope due to overmaturity of plants at the time of our visit. Crown rust was not found at northern locations, while at central and southern locations, this disease was more severe in 2013 than in 2012, particularly at Brewton. Low levels of *Helminthosporium* leaf spot, lower than in 2012, were found at northern and central locations, while higher levels were found at southern locations. Barley yellow dwarf, which affects most small grain species, was minimal across the state with only a few oats plots having disease intensities of 1 or 2. Loose smut was noted fairly consistently at Belle Mina, with trace amounts found at Tallassee and Headland.

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**TABLE 1. LOCATION, PLANTING AND HARVESTING DATES FOR THE 2012-13 SMALL GRAIN TESTS.**


---

| Location   | Date planted | Date harvested |
|--|--------------|----------------|
| <b><u>Northern Alabama</u></b>                               |              |                |
| <b>Tennessee Valley Res. &amp; Ext. Ctr. (Belle Mina)</b>    |              |                |
| Small grain - grain only                                     | November 9   | June 26        |
| <b>Sand Mountain Res. &amp; Ext. Ctr. (Crossville)</b>       |              |                |
| Small grain - grain only                                     | October 25   | June 20        |
| <b><u>Central Alabama</u></b>                                |              |                |
| <b>Black Belt Res. &amp; Ext. Ctr. (Marion Junction)</b>     |              |                |
| Small grain - grain only                                     | November 19  | Not harvested  |
| <b>E.V. Smith Res. Ctr., Plant Breeding Unit (Tallassee)</b> |              |                |
| Small grain - grain only                                     | November 12  | June 13        |
| <b>Prattville Research Field (Prattville)</b>                |              |                |
| Small grain - grain only                                     | November 9   | June 4         |
| <b><u>Southern Alabama</u></b>                               |              |                |
| <b>Wiregrass Res. &amp; Ext. Ctr. (Headland)</b>             |              |                |
| Small grain - grain only                                     | November 30  | May 31         |
| <b>Brewton Research Field (Brewton)</b>                      |              |                |
| Small grain - grain only                                     | November 16  | June 14        |
| <b>Gulf Coast Res. &amp; Ext. Ctr. (Fairhope)</b>            |              |                |
| Small grain - grain only                                     | November 14  | May 28         |

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TABLE 2. NORTH ALABAMA REGIONAL AVERAGES OF WHEAT VARIETY PERFORMANCE.

| Brand-Variety  | 2013    |                     | 2012-2013 | 2011-2013 |
|----------------|---------|---------------------|-----------|-----------|
|                | Test wt | Avg.                | Avg.      | Avg.      |
|                | lbs/bu  | ----- bu/acre ----- |           |           |
| Terral TV 8848 | 55.6    | 104                 | 91        | 99        |
| Terral TV 8861 | 55.5    | 103                 | 91        | 95        |
| Dyna Gro 9053  | 51.7    | 99                  | 86        | 93        |
| Terral TV 8525 | 55.0    | 103                 | 87        | 92        |
| USG 3438       | 52.9    | 101                 | 86        | 91        |
| SS 8500        | 54.4    | 96                  | 86        | 90        |
| SS 8340        | 56.5    | 101                 | 88        | 90        |
| SS 8308        | 55.5    | 92                  | 86        | 90        |
| Terral TV 8535 | 52.9    | 95                  | 82        | 90        |
| Oakes          | 57.3    | 100                 | 87        | 89        |
| AGS 2035       | 53.5    | 85                  | 84        | 89        |
| Baldwin        | 52.1    | 88                  | 83        | 89        |
| Jamestown      | 57.1    | 91                  | 82        | 88        |
| Progeny 117    | 55.0    | 91                  | 83        | 88        |
| Oglethorpe     | 53.8    | 93                  | 79        | 86        |
| USG 3555       | 53.9    | 93                  | 82        | 86        |
| SS 8404        | 56.4    | 85                  | 80        | 86        |
| SS 8641        | 54.3    | 96                  | 84        | 86        |
| Progeny 125    | 53.7    | 88                  | 79        | 85        |
| SS 520         | 53.1    | 86                  | 76        | 81        |
| Terral LA 841  | 50.2    | 77                  | 73        | 78        |
| Progeny 185    | 55.1    | 88                  | 76        | 77        |
| SY Harrison    | 53.5    | 105                 | 94        |           |
| Progeny 357    | 52.5    | 99                  | 87        |           |
| Progeny 870    | 53.3    | 94                  | 87        |           |
| LA 01110D-150  | 53.6    | 92                  | 85        |           |
| Progeny 308    | 55.6    | 96                  | 84        |           |
| LA 02015E201   | 54.9    | 90                  | 75        |           |

*continued*

TABLE 2. CONTINUED.

| Brand-Variety     | 2013    |                     | 2012-2013 | 2011-2013 |
|-------------------|---------|---------------------|-----------|-----------|
|                   | Test wt | Avg.                | Avg.      | Avg.      |
|                   | lbs/bu  | ----- bu/acre ----- |           |           |
| Progeny PGX 12-10 | 52.9    | 106                 |           |           |
| USG 3251          | 55.4    | 106                 |           |           |
| USG 3833          | 54.4    | 98                  |           |           |
| GA 04570-10E46    | 55.2    | 92                  |           |           |
| USG 3120          | 55.3    | 92                  |           |           |
| Progeny PGX 12-3  | 53.0    | 89                  |           |           |
| VA10W-119         | 54.1    | 89                  |           |           |
| USG 3209          | 53.8    | 89                  |           |           |
| AGS 2038          | 53.3    | 88                  |           |           |
| GA 031086-10E29   | 54.5    | 88                  |           |           |
| GA 031257-10LE34  | 55.2    | 87                  |           |           |
| <b>Test Mean</b>  |         | 94                  | 84        | 88        |
| <b>C.V.(%)</b>    |         | 8                   | 12        | 12        |
| <b>LSD(0.10)</b>  |         | 6                   | 5         | 4         |



TABLE 3. TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER WHEAT VARIETY TRIAL, BELLE MINA.

| Brand-Variety  | 2013    |                     | 2012-2013 | 2011-2013 |
|----------------|---------|---------------------|-----------|-----------|
|                | Test wt | Avg.                | Avg.      | Avg.      |
|                | lbs/bu  | ----- bu/acre ----- |           |           |
| USG 3438       | 55.2    | 106                 | 80        | 81        |
| Terral TV 8861 | 56.8    | 109                 | 86        | 81        |
| Terral TV 8848 | 56.8    | 104                 | 82        | 80        |
| Terral TV 8535 | 54.5    | 99                  | 80        | 80        |
| SS 8340        | 58.4    | 101                 | 79        | 79        |
| Baldwin        | 56.8    | 96                  | 78        | 77        |
| Terral TV 8525 | 57.3    | 103                 | 80        | 77        |
| Dyna Gro 9053  | 53.9    | 97                  | 79        | 77        |
| Jamestown      | 57.5    | 92                  | 77        | 77        |
| SS 8308        | 57.2    | 95                  | 78        | 75        |
| AGS 2035       | 56.2    | 89                  | 75        | 74        |
| Progeny 125    | 55.5    | 99                  | 78        | 73        |
| Oglethorpe     | 55.1    | 103                 | 77        | 73        |
| SS 8641        | 54.9    | 97                  | 80        | 72        |
| USG 3555       | 55.6    | 92                  | 74        | 72        |
| SS 8500        | 56.1    | 95                  | 77        | 70        |
| Terral LA 841  | 52.4    | 88                  | 74        | 68        |
| Oakes          | 57.9    | 94                  | 75        | 68        |
| Progeny 117    | 55.6    | 92                  | 73        | 68        |
| SS 8404        | 56.9    | 80                  | 68        | 67        |
| SS 520         | 53.1    | 80                  | 67        | 63        |
| Progeny 185    | 55.7    | 88                  | 70        | 63        |
| SY Harrison    | 55.3    | 104                 | 85        |           |
| LA 01110D-150  | 55.0    | 97                  | 80        |           |
| Progeny 357    | 54.4    | 99                  | 80        |           |
| Progeny 308    | 57.5    | 99                  | 79        |           |
| Progeny 870    | 54.5    | 97                  | 78        |           |
| LA 02015E201   | 57.2    | 99                  | 76        |           |

*continued*

TABLE 3. CONTINUED.

| Brand-Variety     | 2013    |                     | 2012-2013 | 2011-2013 |
|-------------------|---------|---------------------|-----------|-----------|
|                   | Test wt | Avg.                | Avg.      | Avg.      |
|                   | lbs/bu  | ----- bu/acre ----- |           |           |
| Progeny PGX 12-10 | 54.8    | 105                 |           |           |
| USG 3833          | 55.9    | 102                 |           |           |
| GA 04570-10E46    | 57.2    | 101                 |           |           |
| USG 3251          | 57.4    | 98                  |           |           |
| AGS 2038          | 57.1    | 94                  |           |           |
| GA 031257-10LE34  | 56.2    | 92                  |           |           |
| Progeny PGX 12-3  | 55.1    | 92                  |           |           |
| USG 3120          | 56.1    | 91                  |           |           |
| VA10W-119         | 56.6    | 91                  |           |           |
| USG 3209          | 55.3    | 87                  |           |           |
| GA 031086-10E29   | 54.8    | 87                  |           |           |
| <b>Test Mean</b>  |         | 96                  | 77        | 73        |
| <b>C.V.(%)</b>    |         | 7                   | 7         | 9         |
| <b>LSD(0.10)</b>  |         | 7                   | 4         | 4         |

TABLE 4. SAND MOUNTAIN RESEARCH AND EXTENSION CENTER WHEAT VARIETY TRIAL, CROSSVILLE.

| Brand-Variety  | 2013    |                     | 2012-2013 | 2011-2013 |
|----------------|---------|---------------------|-----------|-----------|
|                | Test wt | Avg.                | Avg.      | Avg.      |
|                | lbs/bu  | ----- bu/acre ----- |           |           |
| Terral TV 8848 | 55.6    | 105                 | 99        | 117       |
| SS 8500        | 54.4    | 97                  | 95        | 110       |
| Oakes          | 57.3    | 105                 | 99        | 110       |
| Terral TV 8861 | 55.5    | 97                  | 95        | 109       |
| Progeny 117    | 55.0    | 89                  | 92        | 108       |
| Dyna Gro 9053  | 51.7    | 102                 | 92        | 108       |
| Terral TV 8525 | 55.0    | 103                 | 94        | 106       |
| SS 8404        | 56.4    | 90                  | 92        | 105       |
| AGS 2035       | 53.5    | 81                  | 92        | 105       |
| SS 8308        | 55.5    | 89                  | 93        | 104       |
| USG 3438       | 52.9    | 97                  | 91        | 102       |
| SS 8340        | 56.5    | 101                 | 96        | 101       |
| USG 3555       | 53.9    | 93                  | 90        | 101       |
| Baldwin        | 52.1    | 80                  | 87        | 100       |
| Oglethorpe     | 53.8    | 82                  | 81        | 100       |
| Jamestown      | 57.1    | 90                  | 87        | 99        |
| SS 8641        | 54.3    | 94                  | 88        | 99        |
| Terral TV 8535 | 52.9    | 91                  | 84        | 99        |
| SS 520         | 54.0    | 93                  | 85        | 98        |
| Progeny 125    | 53.7    | 77                  | 79        | 97        |
| Progeny 185    | 55.1    | 89                  | 82        | 91        |
| Terral LA 841  | 50.2    | 66                  | 71        | 87        |
| SY Harrison    | 53.5    | 106                 | 102       |           |
| Progeny 870    | 53.3    | 91                  | 96        |           |
| Progeny 357    | 52.5    | 99                  | 94        |           |
| LA 01110D-150  | 53.6    | 87                  | 91        |           |
| Progeny 308    | 55.6    | 93                  | 89        |           |
| LA 02015E201   | 54.9    | 81                  | 73        |           |

*continued*

TABLE 4. CONTINUED.

| Brand-Variety     | 2013    |                     | 2012-2013 | 2011-2013 |
|-------------------|---------|---------------------|-----------|-----------|
|                   | Test wt | Avg.                | Avg.      | Avg.      |
|                   | lbs/bu  | ----- bu/acre ----- |           |           |
| USG 3251          | 55.4    | 114                 |           |           |
| Progeny PGX 12-10 | 52.9    | 107                 |           |           |
| USG 3833          | 54.4    | 94                  |           |           |
| USG 3120          | 55.3    | 92                  |           |           |
| USG 3209          | 53.8    | 91                  |           |           |
| GA 031086-10E29   | 54.5    | 89                  |           |           |
| VA10W-119         | 54.1    | 87                  |           |           |
| Progeny PGX 12-3  | 53.0    | 86                  |           |           |
| GA 04570-10E46    | 55.2    | 83                  |           |           |
| AGS 2038          | 53.3    | 82                  |           |           |
| GA 031257-10LE34  | 55.2    | 81                  |           |           |
| <b>Test Mean</b>  |         | 92                  | 90        | 103       |
| <b>C.V.(%)</b>    |         | 7                   | 15        | 13        |
| <b>LSD(0.10)</b>  |         | 7                   | 10        | 8         |

TABLE 5. CENTRAL ALABAMA REGIONAL AVERAGES OF WHEAT VARIETY PERFORMANCE.

| Brand-Variety     | 2013              |                          | 2012-2013 <sup>†</sup> | 2011-2013 <sup>†</sup> |
|-------------------|-------------------|--------------------------|------------------------|------------------------|
|                   | Test wt<br>lbs/bu | Avg.<br>-----<br>bu/acre | Avg.                   | Avg.                   |
| Baldwin           | 56.4              | 104                      | 85                     | 89                     |
| AGS 2035          | 58.0              | 101                      | 84                     | 89                     |
| Jamestown         | 58.0              | 105                      | 82                     | 87                     |
| Oglethorpe        | 56.4              | 106                      | 82                     | 86                     |
| Terral LA 841     | 54.9              | 101                      | 81                     | 82                     |
| Progeny 125       | 53.8              | 100                      | 75                     | 81                     |
| Terral TV 8525    | 54.5              | 99                       | 69                     | 77                     |
| Progeny 117       | 54.5              | 89                       | 68                     | 74                     |
| Progeny 185       | 54.0              | 78                       | 57                     | 67                     |
| Terral TV 8535    | 52.8              | 79                       | 51                     | 64                     |
| LA 01110D-150     | 56.4              | 110                      | 89                     |                        |
| LA 02015E201      | 56.8              | 93                       | 76                     |                        |
| Progeny 308       | 54.8              | 98                       | 71                     |                        |
| Progeny 357       | 56.3              | 85                       | 60                     |                        |
| Progeny 870       | 53.0              | 80                       | 57                     |                        |
| AGS 2038          | 56.9              | 111                      |                        |                        |
| GA 031257-10LE34  | 57.6              | 109                      |                        |                        |
| VA10W-119         | 56.5              | 104                      |                        |                        |
| GA 031086-10E29   | 55.2              | 97                       |                        |                        |
| USG 3120          | 57.2              | 93                       |                        |                        |
| Progeny PGX 12-10 | 51.5              | 92                       |                        |                        |
| GA 04570-10E46    | 56.6              | 91                       |                        |                        |
| USG 3833          | 54.4              | 89                       |                        |                        |
| Progeny PGX 12-3  | 52.1              | 87                       |                        |                        |
| <b>Test Mean</b>  |                   | 96                       | 73                     | 80                     |
| <b>C.V.(%)</b>    |                   | 12                       | 17                     | 14                     |
| <b>LSD(0.10)</b>  |                   | 9                        | 6                      | 5                      |

<sup>†</sup> Multi-year averages based on Prattville and Tallassee data only

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**TABLE 6. AVERAGES OF WHEAT VARIETY PERFORMANCE BLACK BELT RESEARCH AND EXTENSION CENTER.**

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† This trial was infested with annual ryegrass and not harvested.

TABLE 7. AVERAGES OF WHEAT VARIETY PERFORMANCE PRATTVILLE EXPERIMENT FIELD.

| Brand-Variety     | 2013    |                     | 2012-2013 | 2011-2013 |
|-------------------|---------|---------------------|-----------|-----------|
|                   | Test wt | Avg.                | Avg.      | Avg.      |
|                   | lbs/bu  | ----- bu/acre ----- |           |           |
| Oglethorpe        | 62.1    | 110                 | 83        | 90        |
| Baldwin           | 60.8    | 100                 | 81        | 87        |
| AGS 2035          | 61.6    | 89                  | 81        | 87        |
| Jamestown         | 63.6    | 99                  | 78        | 87        |
| Terral LA 841     | 60.5    | 93                  | 80        | 83        |
| Progeny 125       | 61.1    | 101                 | 76        | 83        |
| Progeny 117       | 59.4    | 86                  | 62        | 72        |
| Terral TV 8525    | 59.0    | 95                  | 59        | 72        |
| Progeny 185       | 58.1    | 77                  | 46        | 61        |
| Terral TV 8535    | 56.6    | 73                  | 39        | 57        |
| LA 01110D-150     | 61.4    | 102                 | 85        |           |
| LA 02015E201      | 63.1    | 98                  | 80        |           |
| Progeny 308       | 58.7    | 92                  | 63        |           |
| Progeny 357       | 56.3    | 90                  | 51        |           |
| Progeny 870       | 56.9    | 73                  | 43        |           |
| GA 031257-10LE34  | 62.3    | 110                 |           |           |
| AGS 2038          | 61.3    | 101                 |           |           |
| VA10W-119         | 61.2    | 100                 |           |           |
| GA 031086-10E29   | 59.1    | 100                 |           |           |
| USG 3120          | 62.2    | 97                  |           |           |
| GA 04570-10E46    | 62.6    | 96                  |           |           |
| Progeny PGX 12-10 | 56.2    | 94                  |           |           |
| Progeny PGX 12-3  | 57.9    | 92                  |           |           |
| USG 3833          | 56.5    | 89                  |           |           |
| <b>Test Mean</b>  |         | 94                  | 67        | 78        |
| <b>C.V.(%)</b>    |         | 12                  | 15        | 12        |
| <b>LSD(0.10)</b>  |         | 12                  | 8         | 6         |

TABLE 8. AVERAGES OF WHEAT VARIETY PERFORMANCE PLANT BREEDING UNIT, TALLASSEE.

| Brand-Variety     | 2013    |                     | 2012-2013 | 2011-2013 |
|-------------------|---------|---------------------|-----------|-----------|
|                   | Test wt | Avg.                | Avg.      | Avg.      |
|                   | lbs/bu  | ----- bu/acre ----- |           |           |
| AGS 2035          | 58.0    | 113                 | 88        | 92        |
| Baldwin           | 56.4    | 109                 | 89        | 91        |
| Jamestown         | 58.0    | 112                 | 86        | 86        |
| Terral TV 8525    | 54.5    | 103                 | 78        | 82        |
| Progeny 125       | 53.8    | 100                 | 74        | 80        |
| Terral LA 841     | 54.9    | 108                 | 82        | 80        |
| Oglethorpe        | 56.4    | 102                 | 82        | 79        |
| Progeny 117       | 54.5    | 91                  | 73        | 76        |
| Progeny 185       | 54.0    | 79                  | 68        | 75        |
| Terral TV 8535    | 52.8    | 86                  | 62        | 73        |
| LA 01110D-150     | 56.4    | 117                 | 93        |           |
| Progeny 308       | 54.8    | 103                 | 80        |           |
| LA 02015E201      | 56.8    | 89                  | 72        |           |
| Progeny 357       | 59.4    | 81                  | 69        |           |
| Progeny 870       | 53.0    | 87                  | 69        |           |
| AGS 2038          | 56.9    | 121                 |           |           |
| VA10W-119         | 56.5    | 108                 |           |           |
| GA 031257-10LE34  | 57.6    | 107                 |           |           |
| GA 031086-10E29   | 55.2    | 94                  |           |           |
| Progeny PGX 12-10 | 51.5    | 90                  |           |           |
| USG 3833          | 54.4    | 88                  |           |           |
| USG 3120          | 57.2    | 88                  |           |           |
| GA 04570-10E46    | 56.6    | 87                  |           |           |
| Progeny PGX 12-3  | 52.1    | 82                  |           |           |
| <b>Test Mean</b>  |         | 98                  | 78        | 81        |
| <b>C.V.(%)</b>    |         | 14                  | 13        | 8         |
| <b>LSD(0.10)</b>  |         | 14                  | 7         | 5         |



TABLE 9. SOUTH ALABAMA REGIONAL AVERAGES OF WHEAT VARIETY PERFORMANCE.

| Brand-Variety     | 2013    |                     | 2012-2013 | 2011-2013 |
|-------------------|---------|---------------------|-----------|-----------|
|                   | Test wt | Avg.                | Avg.      | Avg.      |
|                   | lbs/bu  | ----- bu/acre ----- |           |           |
| AGS 2035          | 57.1    | 84                  | 70        | 78        |
| Baldwin           | 57.3    | 76                  | 62        | 69        |
| Jamestown         | 57.3    | 75                  | 57        | 66        |
| AGS 2026          | 57.2    | 72                  | 54        | 65        |
| Terral LA 841     | 57.8    | 70                  | 54        | 63        |
| Progeny 117       | 56.5    | 54                  | 42        | 54        |
| Progeny 125       | 55.1    | 54                  | 38        | 54        |
| Terral TV 8525    | 52.8    | 25                  | 17        | 40        |
| Progeny 185       | 53.1    | 22                  | 17        | 38        |
| Terral TV 8535    | 48.1    | 13                  | 9         | 35        |
| LA 01110D-150     | 57.3    | 78                  | 61        |           |
| LA 02015E201      | 58.0    | 69                  | 55        |           |
| Progeny 308       | 52.3    | 26                  | 20        |           |
| Progeny 357       | 48.1    | 17                  | 9         |           |
| Progeny 870       | 48.3    | 15                  | 9         |           |
| AGS 2038          | 57.6    | 87                  |           |           |
| GA 04570-10E46    | 56.7    | 82                  |           |           |
| USG 3120          | 57.2    | 78                  |           |           |
| Oglethorpe        | 57.3    | 76                  |           |           |
| VA10W-119         | 57.4    | 74                  |           |           |
| GA 031086-10E29   | 56.4    | 70                  |           |           |
| GA 031257-10LE34  | 57.5    | 60                  |           |           |
| Progeny PGX 12-3  | 49.9    | 33                  |           |           |
| Progeny PGX 12-10 | 48.9    | 18                  |           |           |
| <b>Test Mean</b>  |         | 55                  | 38        | 56        |
| <b>C.V.(%)</b>    |         | 16                  | 26        | 23        |
| <b>LSD(0.10)</b>  |         | 5                   | 4         | 4         |

TABLE 10. AVERAGES OF WHEAT VARIETY PERFORMANCE AT BREWTON EXPERIMENT FIELD.

| Brand-Variety     | 2013    |                     | 2012-2013 | 2011-2013 |
|-------------------|---------|---------------------|-----------|-----------|
|                   | Test wt | Avg.                | Avg.      | Avg.      |
|                   | lbs/bu  | ----- bu/acre ----- |           |           |
| AGS 2035          | 57.1    | 76                  | 60        | 64        |
| AGS 2026          | 57.2    | 71                  | 53        | 60        |
| Baldwin           | 57.3    | 67                  | 52        | 59        |
| Terral LA 841     | 58.4    | 64                  | 50        | 55        |
| Jamestown         | 57.3    | 64                  | 44        | 53        |
| Progeny 125       | 58.3    | 56                  | 32        | 44        |
| Progeny 117       | 57.2    | 48                  | 32        | 44        |
| Progeny 185       | 57.5    | 28                  | 16        | 32        |
| Terral TV 8525    | 56.6    | 29                  | 15        | 32        |
| Terral TV 8535    |         | 12                  | 7         | 29        |
| LA 01110D-150     | 57.3    | 71                  | 48        |           |
| LA 02015E201      | 58.0    | 57                  | 45        |           |
| Progeny 308       | 57.4    | 28                  | 15        |           |
| Progeny 357       | 60.0    | 23                  | 12        |           |
| Progeny 870       | 54.1    | 18                  | 10        |           |
| AGS 2038          | 57.6    | 84                  |           |           |
| Oglethorpe        | 57.8    | 77                  |           |           |
| VA10W-119         | 57.4    | 72                  |           |           |
| GA 04570-10E46    | 56.7    | 70                  |           |           |
| USG 3120          | 57.2    | 68                  |           |           |
| GA 031086-10E29   | 58.2    | 68                  |           |           |
| GA 031257-10LE34  | 57.5    | 54                  |           |           |
| Progeny PGX 12-3  | 57.2    | 34                  |           |           |
| Progeny PGX 12-10 | 59.1    | 22                  |           |           |
| <b>Test Mean</b>  |         | 52                  | 33        | 47        |
| <b>C.V.(%)</b>    |         | 12                  | 19        | 12        |
| <b>LSD(0.10)</b>  |         | 7                   | 5         | 4         |

TABLE 11. AVERAGES OF WHEAT VARIETY PERFORMANCE AT WIREGRASS RESEARCH AND EXTENSION CENTER, HEADLAND.

| Brand-Variety     | 2013    |                     | 2012-2013 | 2011-2013 |
|-------------------|---------|---------------------|-----------|-----------|
|                   | Test wt | Avg.                | Avg.      | Avg.      |
|                   | lbs/bu  | ----- bu/acre ----- |           |           |
| AGS 2035          | 59.1    | 83                  | 78        | 87        |
| Jamestown         | 60.5    | 81                  | 66        | 78        |
| Baldwin           | 58.8    | 78                  | 72        | 77        |
| AGS 2026          | 57.4    | 73                  | 59        | 70        |
| Terral LA 841     | 57.8    | 74                  | 59        | 69        |
| Progeny 117       | 56.5    | 47                  | 42        | 57        |
| Progeny 125       | 55.1    | 42                  | 36        | 56        |
| Terral TV 8525    | 52.8    | 24                  | 19        | 45        |
| Progeny 185       | 53.1    | 17                  | 17        | 42        |
| Terral TV 8535    | 48.1    | 9                   | 8         | 34        |
| LA 01110D-150     | 59.3    | 85                  | 68        |           |
| LA 02015E201      | 60.5    | 62                  | 56        |           |
| Progeny 308       | 52.3    | 25                  | 19        |           |
| Progeny 357       | 48.1    | 15                  | 11        |           |
| Progeny 870       | 48.3    | 9                   | 8         |           |
| GA 04570-10E46    | 60.9    | 85                  |           |           |
| AGS 2038          | 61.0    | 82                  |           |           |
| VA10W-119         | 59.2    | 76                  |           |           |
| USG 3120          | 60.3    | 74                  |           |           |
| Oglethorpe        | 57.3    | 67                  |           |           |
| GA 031086-10E29   | 56.4    | 66                  |           |           |
| GA 031257-10LE34  | 60.8    | 62                  |           |           |
| Progeny PGX 12-3  | 49.9    | 29                  |           |           |
| Progeny PGX 12-10 | 48.9    | 14                  |           |           |
| <b>Test Mean</b>  |         | 53                  | 41        | 61        |
| <b>C.V.(%)</b>    |         | 21                  | 22        | 15        |
| <b>LSD(0.10)</b>  |         | 12                  | 7         | 6         |

**TABLE 12. AVERAGES OF WHEAT VARIETY PERFORMANCE AT GULF COAST RESEARCH AND EXTENSION CENTER, FAIRHOPE.**

| Brand-Variety     | 2013    |       | 2012-2013 | 2011-2013 |
|-------------------|---------|-------|-----------|-----------|
|                   | Test wt | Avg.  | Avg.      | Avg.      |
|                   | lbs/bu  | ----- | bu/acre   | -----     |
| AGS 2035          | 59.2    | 93    | 73        | 82        |
| Baldwin           | 59.3    | 83    | 62        | 72        |
| Jamestown         | 59.7    | 81    | 61        | 68        |
| AGS 2026          | 58.2    | 71    | 50        | 65        |
| Terral LA 841     | 59.0    | 73    | 53        | 64        |
| Progeny 117       | 58.8    | 68    | 52        | 63        |
| Progeny 125       | 59.4    | 63    | 45        | 62        |
| Terral TV 8525    | 59.5    | 23    | 17        | 42        |
| Terral TV 8535    | 59.3    | 18    | 13        | 41        |
| Progeny 185       | 59.2    | 21    | 17        | 41        |
| LA 01110D-150     | 58.2    | 79    | 67        |           |
| LA 02015E201      | 59.0    | 89    | 65        |           |
| Progeny 308       | 59.4    | 25    | 26        |           |
| Progeny 870       | 59.7    | 19    | 12        |           |
| Progeny 357       | 60.1    | 14    | 10        |           |
| AGS 2038          | 60.2    | 94    |           |           |
| GA 04570-10E46    | 61.6    | 92    |           |           |
| USG 3120          | 59.1    | 91    |           |           |
| Oglethorpe        | 59.6    | 84    |           |           |
| GA 031086-10E29   | 59.3    | 76    |           |           |
| VA10W-119         | 58.4    | 74    |           |           |
| GA 031257-10LE34  | 59.6    | 65    |           |           |
| Progeny PGX 12-3  | 57.5    | 36    |           |           |
| Progeny PGX 12-10 | 59.9    | 19    |           |           |
| <b>Test Mean</b>  |         | 60    | 42        | 60        |
| <b>C.V.(%)</b>    |         | 10    | 16        | 10        |
| <b>LSD(0.10)</b>  |         | 6     | 5         | 4         |

TABLE 13. NORTH ALABAMA REGIONAL AND LOCATION AVERAGES OF OAT VARIETY PERFORMANCE.

| Brand-Variety  | 2013              |               | 2012-2013             | 2011-2013 |
|--|-------------------|---------------|-----------------------|-----------|
|  | Test wt<br>lbs/bu | Avg.<br>----- | Avg.<br>bu/acre ----- | Avg.      |
| <b><u>Regional Averages</u></b>  |                   |               |                       |           |
| LA 05006-65-S1   | 30.3              | 143           | 130                   | 130       |
| Florida 501  | 34.7              | 124           | 106                   | 104       |
| Soil Saver   | 27.9              | 75            | 67                    | 63        |
| LA 04004-7-S1  | 36.3              | 150           |                       |           |
| <b>Test Mean</b>   |                   | 123           | 101                   | 99        |
| <b>C.V.(%)</b>   |                   | 11            | 12                    | 12        |
| <b>LSD(0.10)</b>   |                   | 10            | 6                     | 5         |
| <b><u>Tennessee Valley Research and Extension Center, Belle Mina, AL</u></b> |                   |               |                       |           |
| LA 05006-65-S1   | 35.3              | 142           | 126                   | 126       |
| Florida 501  | 34.7              | 133           | 110                   | 108       |
| Soil Saver   | 27.9              | 77            | 66                    | 60        |
| LA 04004-7-S1  | 36.3              | 159           |                       |           |
| <b>Test Mean</b>   |                   | 128           | 100                   | 98        |
| <b>C.V.(%)</b>   |                   | 21            | 22                    | 20        |
| <b>LSD(0.10)</b>   |                   | 31            | 18                    | 12        |
| <b><u>Sand Mountain Research and Extension Center, Crossville, AL.</u></b>   |                   |               |                       |           |
| LA 05006-65-S1   | 30.3              | 144           | 134                   | 134       |
| Florida 501  | 35.5              | 115           | 102                   | 101       |
| Soil Saver   | 36.4              | 73            | 67                    | 67        |
| LA 04004-7-S1  | 36.8              | 141           |                       |           |
| <b>Test Mean</b>   |                   | 118           | 101                   | 100       |
| <b>C.V.(%)</b>   |                   | 15            | 15                    | 14        |
| <b>LSD(0.10)</b>   |                   | 20            | 12                    | 9         |

TABLE 14. CENTRAL ALABAMA REGIONAL AND LOCATION AVERAGES OF OAT VARIETY PERFORMANCE.

| Brand-Variety   | 2013              |               | 2012-2013             | 2011-2013 |
|---|-------------------|---------------|-----------------------|-----------|
|   | Test wt<br>lbs/bu | Avg.<br>----- | Avg.<br>bu/acre ----- | Avg.      |
| <b><u>Regional Averages</u></b>   |                   |               |                       |           |
| LA 05006-65-S1  | 35.3              | 144           | 125                   | 118       |
| Florida 501   | 30.4              | 64            | 76                    | 80        |
| Soil Saver  | 25.0              | 60            | 46                    | 44        |
| LA 04004-7-S1   | 35.1              | 90            |                       |           |
| <b>Test Mean</b>  |                   | 90            | 82                    | 81        |
| <b>C.V.(%)</b>  |                   | 19            | 25                    | 28        |
| <b>LSD(0.10)</b>  |                   | 13            | 11                    | 10        |
| <b><u>Prattville Research Field, Prattville, AL.</u></b>                                    |                   |               |                       |           |
| LA 05006-65-S1  | 35.4              | 160           | 121                   | 133       |
| Florida 501   | 37.8              | 103           | 89                    | 109       |
| Soil Saver  | 25.7              | 81            | 49                    | 56        |
| LA 04004-7-S1   | 36.6              | 134           |                       |           |
| <b>Test Mean</b>  |                   | 120           | 86                    | 99        |
| <b>C.V.(%)</b>  |                   | 11            | 17                    | 14        |
| <b>LSD(0.10)</b>  |                   | 15            | 12                    | 9         |
| <b><u>E.V. Smith Research and Extension Center, Plant Breeding Unit, Tallassee, AL.</u></b> |                   |               |                       |           |
| LA 05006-65-S1  | 35.3              | 127           | 128                   | 103       |
| Florida 501   | 30.4              | 25            | 64                    | 51        |
| Soil Saver  | 25.0              | 40            | 44                    | 32        |
| LA 04004-7-S1   | 35.1              | 46            |                       |           |
| <b>Test Mean</b>  |                   | 59            | 79                    | 62        |
| <b>C.V.(%)</b>  |                   | 21            | 13                    | 30        |
| <b>LSD(0.10)</b>  |                   | 14            | 8                     | 12        |

TABLE 15. SOUTH ALABAMA REGIONAL AND LOCATION AVERAGES OF OAT VARIETY PERFORMANCE .

| Brand-Variety   | 2013              |               | 2012-2013             | 2011-2013 |
|---|-------------------|---------------|-----------------------|-----------|
|   | Test wt<br>lbs/bu | Avg.<br>----- | Avg.<br>bu/acre ----- | Avg.      |
| <b><u>Regional Averages</u></b>                                       |                   |               |                       |           |
| LA 05006-65-S1  | 24.9              | 80            | 78                    | 103       |
| Florida 501   | 23.6              | 83            | 68                    | 81        |
| Soil Saver  | 24.2              | 67            | 56                    | 62        |
| LA 04004-7-S1   | 32.4              | 90            |                       |           |
| <b>Test Mean</b>  |                   | 80            | 67                    | 82        |
| <b>C.V.(%)</b>  |                   | 20            | 25                    | 24        |
| <b>LSD(0.10)</b>  |                   | 10            | 7                     | 7         |
| <b><u>Brewton Research Field, Brewton, AL.</u></b>                    |                   |               |                       |           |
| LA 05006-65-S1  |                   | 124           | 91                    | 109       |
| Florida 501   |                   | 100           | 68                    | 77        |
| Soil Saver  |                   | 78            | 63                    | 67        |
| LA 04004-7-S1   |                   | 106           |                       |           |
| <b>Test Mean</b>  |                   | 102           | 74                    | 85        |
| <b>C.V.(%)</b>  |                   | 16            | 19                    | 15        |
| <b>LSD(0.10)</b>  |                   | 19            | 11                    | 8         |
| <b><u>Gulf Coast Research and Extension Center, Fairhope, AL.</u></b> |                   |               |                       |           |
| LA 05006-65-S1  | 24.9              | 59            | 82                    | 110       |
| Florida 501   | 23.6              | 83            | 87                    | 101       |
| Soil Saver  | 24.2              | 64            | 56                    | 70        |
| LA 04004-7-S1   | 39.9              | 91            |                       |           |
| <b>Test Mean</b>  |                   | 74            | 75                    | 94        |
| <b>C.V.(%)</b>  |                   | 19            | 16                    | 12        |
| <b>LSD(0.10)</b>  |                   | 16            | 10                    | 7         |
| <b><u>Wiregrass Research and Extension Center, Headland, AL.</u></b>  |                   |               |                       |           |
| LA 05006-65-S1  | 28.0              | 58            | 61                    | 89        |
| Florida 501   | 29.8              | 65            | 48                    | 64        |
| Soil Saver  | 25.4              | 59            | 47                    | 48        |
| LA 04004-7-S1   | 32.4              | 73            |                       |           |
| <b>Test Mean</b>  |                   | 64            | 52                    | 67        |
| <b>C.V.(%)</b>  |                   | 26            | 21                    | 24        |
| <b>LSD(0.10)</b>  |                   | 19            | 8                     | 10        |

TABLE 16. LEVELS OF DISEASES ON WHEAT VARIETIES AVERAGED ACROSS NORTHERN ALABAMA SITES (BELLE MINA AND CROSSVILLE), 2012-2013.

| Brand-Variety      | Powdery<br>Mildew <sup>1</sup> | Leaf<br>Rust <sup>2</sup> | Stripe<br>Rust <sup>2</sup> | Leaf Blotch <sup>1</sup> | Glume<br>Blotch <sup>1</sup> | Barley<br>yellow<br>dwarf <sup>1</sup> | Fusarium<br>Head<br>Blight <sup>1</sup> |
|--------------------|--------------------------------|---------------------------|-----------------------------|--------------------------|------------------------------|--|---|
| AGS 2035           | 0.2                            | 0                         | 1.5                         | 1.1                      | 0.4                          | 0                                      | 0                                       |
| AGS 2038           | 0                              | 0                         | 0                           | 0.8                      | 0                            | 0                                      | 0                                       |
| Baldwin            | 0.2                            | 0                         | 1.0                         | 1.4                      | 0                            | 0                                      | 0                                       |
| Dyna Gro 9053      | 1.2                            | 0                         | 0                           | 0.9                      | 0                            | 0                                      | 0                                       |
| GA 031086-10E29    | 0                              | 0                         | 0                           | 1.5                      | 1.5                          | 0                                      | 0                                       |
| GA 031257-10LE34   | 0.2                            | 0                         | 0                           | 1.8                      | 0.2                          | 0                                      | 1.0                                     |
| GA 04570-10E46     | 0                              | 0                         | 0                           | 0.9                      | 0.1                          | 0                                      | 0                                       |
| Jamestown          | 0                              | 0                         | 0.2                         | 1.6                      | 0.1                          | 0                                      | 0                                       |
| LA 01110D-150      | 1.0                            | 0.2                       | 0.2                         | 1.8                      | 0                            | 0                                      | 0                                       |
| LA 02015E201       | 0                              | 0                         | 0                           | 1.8                      | 0                            | 0                                      | 0.8                                     |
| Oakes              | 1.2                            | 0                         | 0.1                         | 1.4                      | 0.8                          | 0                                      | 0                                       |
| Oglethorpe         | 1.0                            | 0                         | 0                           | 1.8                      | 0.5                          | 0                                      | 0.5                                     |
| Progeny 117        | 0.1                            | 0.2                       | 11.2                        | 1.8                      | 0.2                          | 0                                      | 0                                       |
| Progeny 125        | 0                              | 0                         | 0                           | 2.6                      | 2.1                          | 0                                      | 0                                       |
| Progeny 185        | 1.2                            | 0                         | 7.5                         | 1.0                      | 0                            | 0.5                                    | 0                                       |
| Progeny 308        | 0                              | 0                         | 0                           | 0.9                      | 0.3                          | 0                                      | 0                                       |
| Progeny 357        | 1.8                            | 0                         | 0.3                         | 0.6                      | 0                            | 0.2                                    | 0                                       |
| Progeny 870        | 0                              | 0                         | 0                           | 0.9                      | 0                            | 1.2                                    | 0                                       |
| Progeny PGX 12-10  | 0.2                            | 0                         | 0                           | 0.4                      | 0.1                          | 0.1                                    | 0                                       |
| Progeny PGX 12-3   | 0.5                            | 0                         | 0                           | 0.8                      | 0.5                          | 0                                      | 0                                       |
| SS 520             | 0.1                            | 0                         | 36.5                        | 2.0                      | 0.8                          | 0.6                                    | 0.4                                     |
| SS 8308            | 0                              | 0                         | 0.2                         | 1.1                      | 0                            | 0.2                                    | 0                                       |
| SS 8340            | 0.2                            | 0                         | 0                           | 1.5                      | 0                            | 0                                      | 0                                       |
| SS 8404            | 0.1                            | 0                         | 9.2                         | 2.0                      | 0.2                          | 0                                      | 0.2                                     |
| SS 8500            | 0                              | 0                         | 1.2                         | 1.2                      | 0                            | 0.6                                    | 0                                       |
| SS 8641            | 0                              | 0                         | 0                           | 1.8                      | 0.8                          | 0                                      | 0.2                                     |
| SY Harrison        | 0.5                            | 0                         | 0.1                         | 0.1                      | 0                            | 0                                      | 0                                       |
| Terral LA 841      | 0.5                            | 0                         | 0                           | 1.2                      | 0                            | 0                                      | 1.0                                     |
| Terral TV 8525     | 0                              | 0                         | 0                           | 0.9                      | 0.1                          | 0.5                                    | 0                                       |
| Terral TV 8535     | 0                              | 0                         | 0                           | 1.1                      | 0.2                          | 0.4                                    | 0                                       |
| Terral TV 8848     | 0.2                            | 0                         | 0                           | 0.8                      | 0                            | 0                                      | 0                                       |
| Terral TV 8861     | 0.5                            | 0                         | 0                           | 1.1                      | 0                            | 0                                      | 0                                       |
| USG 3120           | 0                              | 0                         | 0.2                         | 2.0                      | 0                            | 0                                      | 0.2                                     |
| USG 3209           | 0                              | 0                         | 0.5                         | 1.6                      | 0.8                          | 0                                      | 0.2                                     |
| USG 3251           | 0.2                            | 0                         | 0                           | 0.5                      | 0                            | 0                                      | 0                                       |
| USG 3438           | 0                              | 0                         | 0                           | 0.5                      | 0                            | 0.3                                    | 0                                       |
| USG 3555           | 0                              | 0                         | 0                           | 1.5                      | 0.2                          | 0                                      | 0                                       |
| USG 3833           | 2.5                            | 0                         | 0                           | 0.5                      | 0                            | 0.4                                    | 0                                       |
| VA10W-119          | 0.2                            | 0                         | 3.5                         | 2.1                      | 0                            | 0.4                                    | 0.2                                     |
| LSD ( $P = 0.05$ ) | 1.1                            | 0.2                       | 9.4                         | 1.1                      | 0.6                          | 0.5                                    | 0.6                                     |

<sup>1</sup>Disease rated on a scale of 0 to 9 where 0 = no disease, 9 = severe disease throughout plot.

<sup>2</sup>Rust diseases are rated on the flag leaves as a proportion of affected leaf, 0 to 100%.



TABLE 17. LEVELS OF DISEASES ON WHEAT VARIETIES AVERAGED ACROSS CENTRAL ALABAMA SITES (PRATTVILLE AND TALLASSEE), 2012-2013.

| Brand-Variety      | Powdery<br>Mildew <sup>1</sup> | Leaf Rust <sup>2</sup> | Stripe<br>Rust <sup>2</sup> | Leaf<br>Blotch <sup>1</sup> | Glume<br>Blotch <sup>2</sup> | Barley Yel-<br>low Dwarf <sup>2</sup> |
|--------------------|--------------------------------|------------------------|-----------------------------|-----------------------------|------------------------------|---------------------------------------|
| AGS 2035           | 0                              | 0.1                    | 6.7                         | 0.5                         | 0.6                          | 0                                     |
| AGS 2038           | 0                              | 0                      | 0.1                         | 0.5                         | 0.2                          | 1.1                                   |
| Baldwin            | 0                              | 0                      | 11.9                        | 0.3                         | 0                            | 0                                     |
| GA 031086-10E29    | 0                              | 0                      | 0                           | 1                           | 0.7                          | 0.1                                   |
| GA 031257-10LE34   | 0                              | 0                      | 0.9                         | 0.4                         | 0.6                          | 0                                     |
| GA 04570-10E46     | 0                              | 0                      | 0                           | 0.9                         | 0.2                          | 0                                     |
| Jamestown          | 0                              | 2.5                    | 0                           | 0.7                         | 0.6                          | 0                                     |
| LA 01110D-150      | 0                              | 0.2                    | 3                           | 1                           | 0.6                          | 0                                     |
| LA 02015E201       | 0                              | 0                      | 0                           | 2                           | 0.2                          | 0                                     |
| Oglethorpe         | 0                              | 0                      | 0                           | 0.6                         | 0.4                          | 0.1                                   |
| Progeny 117        | 0                              | 5.2                    | 15.1                        | 0.5                         | 0.4                          | 0                                     |
| Progeny 125        | 0                              | 6.5                    | 0                           | 2.1                         | 2.2                          | 0                                     |
| Progeny 185        | 0                              | 0.3                    | 11.2                        | 0.6                         | 0                            | 0.1                                   |
| Progeny 308        | 0                              | 0.7                    | 0.3                         | 0.2                         | 0.2                          | 0.3                                   |
| Progeny 357        | 0.3                            | 0.1                    | 1.3                         | 0                           | 0                            | 0.3                                   |
| Progeny 870        | 0                              | 0.5                    | 0                           | 0.3                         | 0                            | 0.2                                   |
| Progeny PGX 12-10  | 0                              | 9.8                    | 0                           | 0.2                         | 0.1                          | 0.4                                   |
| Progeny PGX 12-3   | 0.1                            | 0                      | 0.1                         | 0                           | 0.3                          | 0                                     |
| Terral LA 841      | 0                              | 0                      | 0.2                         | 0.6                         | 1.1                          | 0.1                                   |
| Terral TV 8525     | 0                              | 0.4                    | 0                           | 0.4                         | 0.2                          | 0.2                                   |
| Terral TV 8535     | 0                              | 1                      | 0                           | 0                           | 0                            | 1                                     |
| USG 3120           | 0                              | 0.2                    | 3.4                         | 0.8                         | 0.2                          | 0                                     |
| USG 3833           | 0.3                            | 0.1                    | 0.2                         | 0                           | 0                            | 0                                     |
| VA10W-119          | 0                              | 0                      | 10.2                        | 0.3                         | 0                            | 0.1                                   |
| LSD ( $P = 0.05$ ) | 0.2                            | 5.6                    | 6.4                         | 0.75                        | 0.57                         | 0.57                                  |

<sup>1</sup>Disease rated on a scale of 0 to 9 where 0 = no disease, 9 = severe disease throughout plot.

<sup>2</sup>Rust diseases are rated on the flag leaves as a proportion of affected leaf, 0 to 100%.

TABLE 18. LEVELS OF DISEASES ON WHEAT VARIETIES AVERAGED ACROSS SOUTHERN ALABAMA SITES (FAIRHOPE AND HEADLAND), 2012-2013.

| Brand-Variety      | Leaf Rust <sup>2</sup> | Stripe Rust <sup>2,3</sup> | Leaf Blotch <sup>1</sup> | Glume Blotch <sup>1</sup> | Fusarium                   |                                  |
|--------------------|------------------------|----------------------------|--------------------------|---------------------------|----------------------------|----------------------------------|
|                    |                        |                            |                          |                           | Head Blight <sup>1,4</sup> | Barley Yellow Dwarf <sup>2</sup> |
| AGS 2026           | 0                      | 0.3                        | 0.7                      | 0.9                       | 0                          | 0.6                              |
| AGS 2035           | 0                      | 0.7                        | 1                        | 0.9                       | 0.1                        | 0.1                              |
| AGS 2038           | 0                      | 0.3                        | 0.9                      | 1                         | 0.1                        | 0.1                              |
| Baldwin            | 0                      | 1                          | 1.4                      | 0.4                       | 0                          | 0                                |
| GA 031086-10E29    | 0.3                    | 0.7                        | 0.8                      | 0.9                       | 0                          | 0                                |
| GA 031257-10LE34   | 0                      | 0.01                       | 1.1                      | 0.3                       | 0                          | 0.6                              |
| GA 04570-10E46     | 0                      | 0.3                        | 1                        | 0.5                       | 0.3                        | 0                                |
| Jamestown          | 7.5                    | 1.7                        | 1.3                      | 0.7                       | 0                          | 0                                |
| LA 01110D-150      | 1.1                    | 0.7                        | 1.2                      | 0.5                       | 0.1                        | 0.2                              |
| LA 02015E201       | 0                      | 1                          | 2.3                      | 1.5                       | 0.2                        | 0                                |
| Oglethorpe         | 0                      | 0                          | 0.7                      | 1.2                       | 0                          | 0.1                              |
| Progeny 117        | 21.7                   | 3                          | 1                        | 0.9                       | 0                          | 0                                |
| Progeny 125        | 9.5                    | 2.3                        | 1.3                      | 1.5                       | 0                          | 0.4                              |
| Progeny 185        | 12.2                   | 1.3                        | 0.5                      | 0                         | 0                          | 0.2                              |
| Progeny 308        | 1                      | 1                          | 0.2                      | 0.3                       | 0                          | 0.4                              |
| Progeny 357        | 24.4                   | 2.3                        | 0.1                      | 0.1                       | 0                          | 0                                |
| Progeny 870        | 2.3                    | 0.3                        | 0.1                      | 0.1                       | 0                          | 0.4                              |
| Progeny PGX 12-10  | 20.9                   | 0                          | 0.3                      | 0.2                       | 0                          | 0.1                              |
| Progeny PGX 12-3   | 0                      | 0                          | 0.2                      | 0.6                       | 0                          | 0                                |
| Terral LA 841      | 0                      | 0                          | 1.1                      | 1.7                       | 0.4                        | 0.4                              |
| Terral TV 8525     | 1.9                    | 2                          | 0.1                      | 0.1                       | 0                          | 0.3                              |
| Terral TV 8535     | 2.1                    | 0.3                        | 0.2                      | 0                         | 0                          | 0.7                              |
| USG 3120           | 0.1                    | 0.7                        | 1.4                      | 0.7                       | 0.3                        | 0                                |
| VA10W-119          | 0.8                    | 0.3                        | 0.8                      | 0.7                       | 0                          | 0.4                              |
| LSD ( $P = 0.05$ ) | 10.6                   | 1.8                        | 0.7                      | 0.7                       | 0.3                        | 0.6                              |

<sup>1</sup>Disease rated on a scale of 0 to 9 where 0 = no disease, 9 = severe disease throughout plot.

<sup>2</sup>Rust diseases are rated on the flag leaves as a proportion of affected leaf, 0 to 100%.

<sup>3</sup>Stripe rust was seen only at Headland in 2013; cultivar ratings from this single location.

<sup>4</sup>Fusarium head blight (=scab) was seen only at Fairhope; scab ratings from this location only.

**TABLE 19. LEVELS OF DISEASES ON OAT VARIETIES AVERAGED ACROSS TWO SITES PER REGION (SEE WHEAT TABLES FOR SITES), 2012-2013.**

| Brand-variety  | Northern Alabama <sup>1</sup> |                                  | Central Alabama <sup>1</sup> |                         |                                  | Southern Alabama <sup>1</sup> |                         |                                  |
|----------------|-------------------------------|----------------------------------|------------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------|----------------------------------|
|                | Leaf spot <sup>2</sup>        | Barley Yellow Dwarf <sup>3</sup> | Leaf spot <sup>2</sup>       | Crown Rust <sup>3</sup> | Barley Yellow Dwarf <sup>2</sup> | Leaf spot <sup>2</sup>        | Crown Rust <sup>3</sup> | Barley Yellow Dwarf <sup>2</sup> |
| Florida 501    | 0.1                           | 0.8                              | 1.4                          | 0.4                     | 0.4                              | 1.8                           | 9.0                     | 0.2                              |
| LA 04004-7-S1  | 0                             | 0                                | 1.2                          | 0.5                     | 0.2                              | 1.4                           | 3.8                     | 0                                |
| LA 05006-65-S1 | 0.7                           | 0                                | 1.2                          | 0.9                     | 0                                | 2.0                           | 10.0                    | 0                                |
| Soil Saver     | 0.2                           | 0.2                              | 0.6                          | 2.9                     | 0.2                              | 1.2                           | 1.0                     | 0.6                              |

<sup>1</sup>Northern locations were Belle Mina and Crossville; Central locations were Marion Junction, Tallassee, and Prattville; Southern locations were Brewton and Headland.

<sup>2</sup> Disease rated on a scale of 0 to 9 where 0 = no disease, 9 = severe disease throughout plot.

<sup>3</sup> Rust diseases are rated on the flag leaves as a proportion of affected leaf, 0 to 100%.

## SOURCES OF SEED

| Cultivar  | Source   |
|---|--|
| <b>Wheat</b>  |  |
| AGS 2026, AGS 2035,<br>AGS 2038   | AGSouth Genetics<br>Albany, Georgia                  |
| DynaGro 9053  | Crop Production Services                             |
| DynaGro Baldwin   | Dublin, Ohio   |
| DynaGro Oglethorpe  |  |
| LA 01110D-150*  | Louisiana State University                           |
| LA 02015E201*   | Baton Rouge, Louisiana                               |
| Progeny 117, Progeny 125, Progeny 185,<br>Progeny 357, Progeny 870, Progeny 308,<br>PGX 12-10*, PGX 12-3* | Progeny Ag Products<br>Wynne, Arkansas               |
| SS 520, SS 8308, SS 8340,<br>SS 8404, SS 8500, SS 8641  | Southern States Coop.<br>Richmond, Virginia          |
| Oakes,<br>SY Harrison (formerly B050154)  | Syngenta Seeds, Inc.<br>Bay, Arkansas                |
| Terral LA 841,<br>Terral TV 8525, Terral TV 8535,<br>Terral TV 8848, Terral TV 8861                       | Terral Seed Co.<br>Lake Providence, Louisiana        |
| USG 3209, USG 3438, USG 3555,<br>USG 3251, USG 3120, USG 3833   | UniSouth Genetics, Inc.<br>Nashville, Tennessee      |
| GA 04570-10E46*,<br>GA 031257-10LE34*,<br>GA 031086-10E29*  | University of Georgia<br>Griffin, Georgia            |
| Jamestown,<br>VA 10W-119*   | Virginia Crop Improvement, Assn.<br>Warsaw, Virginia |

\* Experimental line; not yet commercially available.

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*continued*

| Cultivar               | Source  |
|------------------------|---|
| <b>Oat</b>             |   |
| Florida 501, SoilSaver | Alabama Crop Improvement Assn.<br>Headland, Alabama |
| LA 05006-65-S1*        | Louisiana State University                          |
| LA 04004-7-S1*         | Baton Rouge, Louisiana                              |

\* Experimental line; not yet commercially available.