

# *2012 SMALL GRAIN PERFORMANCE TRIALS*



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# Performance of Small Grain Varieties in Louisiana, 2011-12

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## INTRODUCTION

Small grain variety trials are conducted annually by scientists of the Louisiana Agricultural Experiment Station (LAES) to evaluate grain yield, agronomic performance, and disease reaction of varieties and advanced lines. The trials are conducted at seven LAES research stations representative of the major soil and climate regions of the state. Entries are included in the trials based upon previous performance or at the request of the originating agency. Inclusion of an entry in the trials does not constitute an endorsement by the LAES. The 2012 statewide wheat performance trials included 69 varieties (bold font) and experimental lines (normal font).

New entries in the statewide trials are tested at all locations, but may be dropped from a region if they show little potential in that area. South Louisiana consists of the Baton Rouge, Crowley, and Jeanerette locations; whereas North Louisiana consists of locations at Alexandria, Bossier City, St. Joseph, and Winnsboro. Wheat and oat data were not collected from the Alexandria, Bossier City, Crowley and Jeanerette locations. Wheat data were not collected in Baton Rouge. When choosing varieties, growers should consult their local LCES agents and choose varieties based on two year data within a region, not based on a single year or location. Growers should also consider specific data from the LAES variety trial location that most closely matches the weather and soil conditions of their farm and should avoid growing a single variety on a large acreage. Growing several varieties will help ensure that the entire crop is not severely damaged by chance occurrences in weather or by shifts in pathogen or pest races or virulence patterns. Yield, test weight, maturity, and disease resistance are important traits to consider when selecting varieties. If a grower plans to plant wheat early, he should avoid varieties that have a very early heading date in order to reduce the danger of freeze damage.

Specific management and cultural practices for a location are presented at the bottom of the tables, along with unusual or key observations about that test. Rainfall and temperature information for each location is presented in Figure 1. All plots were seeded at the recommended rate with seed provided by the originating agency or company (Appendix A).

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2 Research Farm Assistant, and Professor, respectively, Northeast Research Station, St. Joseph.

3 Research Associate, Professor, Associate Professor, and Research Associates, respectively. Rice Research Station, Crowley.

4 Professor, and Research Associate, respectively. Red River Research Station, Bossier City.

5 Assistant Professor and Research Associates, respectively, Dean Lee Research Station, Alexandria.

6 Regional Director, Central Region and Research Associate, Macon Ridge Research Station, Winnsboro.

7 Professor and Research Associate. Iberia Research Station, Jeanerette.

### Characters Evaluated and Statistics Reported:

Data are collected on grain yield, test weight, heading and maturity dates, plant height, lodging, and disease reaction, as appropriate at each location. Grain yield was adjusted to 13% moisture. **Least significant differences (LSD's)** are reported at the 10% probability level. An LSD of 10% probability ( $\alpha=0.10$ ) is the level of difference in a trait that occurs between two varieties once in every 10 comparisons as a result of random chance due to greater soil fertility, better drainage, slightly greater harvest length, or any other "uncontrollable or unmeasurable factors," even if the varieties had the same genetic yield potential. If the LSD (0.10) for yield in a trial is 7.0 bu/a, there is a 10% chance that two varieties with a reported yield difference of 7.0 bu/acre are genetically equal and a 90% probability they have differences in genetic potential in that particular environment. LSD values are influenced by the degree of precision that soil fertility, stand establishment, plot length, harvest efficiency, and other variables of the trials are controlled, and by the number of replications of each variety or treatment. The letters '**ns**' are used in the text and tables to indicate lack of significance (**not significantly different**) at the 10% probability level. Correlations are sometimes given to indicate the degree to which two traits, such as rust rating and yield, are related. A correlation between rust rating and yield of  $r = -1.0$  would indicate that for every unit increase in rust there was a proportional decrease in yield.

Wheat leaf rust (*Puccinia triticina*), stripe rust (*Puccinia striiformis*), and oat crown rust (*Puccinia coronata*) are reported as percentage of the upper two leaves affected by the disease. Two replications are evaluated for leaf rust, between flowering and the early dough stage of kernel development. Wheat and oat stem rust (*Puccinia graminis*) are reported on a scale of 0-9, where a 0 indicates no disease and a 9 indicates that the plant was killed by the disease. Stem rust is normally rated somewhat later than leaf rust.

Bacterial streak (*Xanthomonas campestris* pv. *translucens*), Septoria leaf (*Mycosphaerella graminicola*) and glume blotch (*Leptosphaeria nodorum*) are rated on a scale of 0 to 9 during the dough stage of development. A rating of 0 indicates that no disease was present, while a 9 indicates very severe disease. The upper few leaves, heads, and stems below the head are the portions rated for these two diseases. Since bacterial streak (black chaff) is not controlled by fungicides, it is important that this disease be distinguished from septoria blotch. Heading day is given as calendar day (day of year). Lodging is rated on a 0-9 scale, where a 0 indicates that all plants were completely upright.

<b>Traits and Rating Scales for LAES Wheat and Oat Performance Trials.</b>		
<b>Trait</b>	<b>Abbreviation</b>	<b>Description</b>
Yield	Yield	Grain yield in bushels per acre adjusted to 13% moisture.
Test weight	Test wt	Volume weight of grain in pounds per bushel
Heading day	Head day	Day of calendar year (days after December 31) until 50% heading.
Plant height	Ht	Plant height in inches.
Lodging rating	Lod	Lodging rated on a scale of 0 - 9, where a 0 indicates no lodging and a 9 indicates complete lodging (all plants flat).
Leaf rust	Leaf rust	Percent of upper two leaves affected by leaf rust, rated during grain fill. This rating is generally taken during soft to mid-dough, but varies somewhat by location and variety.
Stripe rust	Stripe rust	Percent of upper two leaves affected by leaf rust, rated between flag leaf and mid grain fill.
Septoria	Sept	Septoria leaf & glume blotch rated on a scale of 0 - 9, where 0 indicates no disease and 9 indicates severe disease on the flag leaf and head.
Bacterial Streak	Bact	Bacterial streak (black chaff) rated on a scale of 0 - 9, where 0 indicates no disease and 9 indicates severe disease on the flag leaf and head.
Powdery mildew	Powd mild	Powdery mildew rating on a scale of 0 - 9, where 0 indicates no disease and 9 indicates severe disease present on the foliage. Rated in early to mid spring.
Phenotype	Phe	Phenotypic rating, an overall visual rating prior to harvest. 0=excellent, 9=poor. This rating is a visual rating of 'eye-appeal'.

### **Growing Conditions and General Comments for 2011-2012**

Overall, the 2012 growing season was an extremely difficult one. The winter and spring were very warm with temperatures averaging 6 to 7 degrees above normal January through March. As a result, many varieties in the southern locations only partially vernalized, producing about half the normal number of heads which were late and variable in timing. Long vernalization varieties did not vernalize and thus did not head out at all. Multiple strong storms lead to high rainfall totals and poor stands, particularly in Crowley. The warm temperatures also triggered accelerated growth which resulted in freeze damage followed by several storms prior to harvest causing widespread lodging. In addition, bird damage was extremely high at Baton Rouge and Jeanerette possibly as a result of altered migration patterns of blackbirds. No usable wheat or oat data were collected at Alexandria, Bossier City, Crowley or Jeanerette. Useable data were collected at Winnsboro and St. Joseph. No wheat data were collected at Baton Rouge.

## **Results and Discussion**

### **Performance of Wheat Varieties Across North Louisiana**

#### **North Region Means:**

In 2012, the variety Pioneer 26R41 (71.6 bu/acre) had the highest mean yield of 69 entries across North Louisiana, which included St. Joseph and Winnsboro (Table 1). The varieties Pioneer 26R87 and USG 3120, as well as the experimental lines LA04041D-85 and ARX1133 had yields greater above 68.8 bu/acre, compared to the mean of 59.0 bu/acre. Jamestown (59.6 lbs/bu) led in test weight followed by Pioneer 26R87 (59.3 lbs/bu) and AGS 2060 (58.9 lbs/bu) compared to the mean of 55.7 lbs/bu. Stripe rust data were collected only at the Winnsboro location. Leaf rust pressure was high with an incidence mean of 13% and a high of 76%. The top four yielding entries all had leaf rust ratings of 0%. Leaf blotch, necrosis caused by a combination of bacterial streak and septoria exacerbated by frost damage and physical damage during severe rain storms, was significant. Ratings ranged from 1.0 to 6.5 (1 to 9 scale) with a mean of 2.3.

USG 3120 (76.7 bu/acre) led in two year mean yield across north Louisiana (Table 2). 2011 data includes Alexandria, St. Joseph and Winnsboro while only St. Joseph and Winnsboro are represented for 2012. Pioneer 26R87, Jamestown and Progeny 870 also had yields above 73 bu/acre. The average yield of 38 entries was 64.1 bu/acre., USG 3120, Pioneer 26R87, and Jamestown all had test weights above 59 lbs/bu compared to the mean 57.1 lbs/bu and leaf rust ratings of 0.

Of 23 entries, USG 3120 had the highest yield (69.1 bu/acre) across north Louisiana for three years (Table 3). Jamestown, Pioneer 26R87, Terral TV8861 and LA01110D-150 also had yields at or above 67 bu/acre compared to the mean of 63.8 bu/acre. USG 3120, Jamestown and Pioneer 26R87 had test weights above 58 lbs/bu compared to the mean of 57.1 lbs/bu and leaf rust ratings of 0.

#### **Alexandria**

Data collected at Alexandria were not published due to delayed harvest and high variability.

#### **Bossier City**

No data were collected at Bossier City due to lodging and incomplete vernalization.

#### **St. Joseph**

Overall, the 2012 trials at St. Joseph were good and useable data were obtained. At this location, the experimental line Pioneer 26R53 (64.4 bu/acre) had the highest yield of 69 entries (Table 4). The other top five yielding entries included two additional experimental lines,

EXP32110 (63.8 bu/acre) and ARX1133 (62.7 bu/acre) and the varieties Pioneer 26R87 (62.6 bu/acre) and Dyna-Gro Baldwin (61.8 bu/acre). The test weight mean was 51.3 bu/acre. Pioneer 26R87 (59.5 lbs/bu) had the highest test weight followed by Jamestown (59.1 lbs/bu), Pioneer 26R61 (58.7 lbs/bu) and Terral TV8626 (58.4 lbs/bu). The yield mean was 51.3 bu/acre with a range of between 87.4 bu/acre and 36.3 bu/acre. Test weights ranged from 60.8 to 55.3 lbs/bu with a mean of 55.7 lbs/bu. Leaf rust pressure was moderate with incidence ranging from 0 to 83% and a mean of 5%. Four of the five top yielding entries had a leaf rust incidence of 0%. Heading dates ranged from day 73 to day 94. The top three yielding entries had heading dates within 9 days of the mean of 83 (March 24).

Of thirty eight entries, Pioneer 26R87 had the highest two year mean yield (70.3 bu/acre). USG 3120, Jamestown, Dixie Kelsey and Delta Grow 7500 also had two year mean yields above 67 bu/acre at the St Joseph location.

### **Winnsboro**

The variety Pioneer 26R41 (82.3 bu/acre) had the highest yield of 69 entries in 2012 followed by AGS 2056 (78.5 bu/acre), USG 3120 (77.8 bu/acre), Progeny 125 (77.6 bu/acre) and Pioneer 26R87 (76.9 bu/acre) all well above the mean of 66.8 bu/acre (Table 5). Jamestown (60.0 lbs/bu) led in test weight followed by USG 3120, AGS 2060, USG 3201 and Delta Grow 7900, all with test weights above 59 lbs/bu. The test weight mean was 55.8 lbs/bu. Leaf rust pressure was moderate and incidence ratings ranged between 0 and 80% with a mean of 18%. Leaf rust developed fairly late in the season and was quite variable across reps. Thirty four of sixty nine entries had leaf rust ratings of 0% including all but one of the top five yielding entries. USG 3120 (79.5 bu/acre) had the highest two-year mean yield of 38 entries. Leaf blotch ranged from 1.0 to 6.5 (0-9 scale) with a mean of 2.3. Heading day ranged from day 71 to day 90 with a mean of 83 (March 24). The highest yielding entry headed 6 days later than the mean and the lowest yielding entry headed 7 days later than the mean.

USG 3120 (79.5 bu/acre) had the highest mean yield over two years at Winnsboro. The varieties Pioneer 26R87, Progeny 870, AGS 2035, and Jamestown all had yields over 75.5 bu/acre.

### **Statewide Performance of Wheat Varieties**

Two-year statewide variety performance data includes Baton Rouge, Jeanerette, Crowley, Alexandria, St. Joseph and Winnsboro locations for 2011 and St. Joseph and Winnsboro only for 2012 (Table 6). USG 3120 led statewide for two years with a yield of 71.1 bu/acre followed by LA01110D-150 (76.6 bu/acre), AGS 2035 (76.1), GA001138-8E36 (75.6 bu/acre) and Jamestown (75.3 bu/acre). AGS 2060 (59.9 lbs/bu) had the highest mean test weight over two years, followed by Jamestown (59.7 lbs/bu) and USG 3120 and Pioneer 26R61, both with a test weight of 59.1 lbs/bu.

USG 3120 (70.7 bu/acre) had the highest yield across the state for three years (Table 7). LA 01110D-150, Jamestown, and AGS 2035 all had three year mean yields above 69 bu/acre. All had a three year mean leaf rust rating of 0%. AGS 2060 (59.2 lbs/bu) had the highest mean three year test weight with a three year leaf rust rating of 0.



## **Performance of Oat Varieties**

### **Performance of Oat Varieties Across Louisiana:**

Horizon 270 (114.6 bu/acre) had the highest yield out of 24 entries across Louisiana (Baton Rouge and Winnsboro) for 2012 (Table 8). Two breeding lines, LA05011GSBS-30 and LA06012SBS-2 and two additional varieties, LA99016 and LA99017, also had yields above 85.7 bu/acre. All had crown rust ratings of 2% or below compared to the mean of 10%. The average crown rust rating was 10% and several entries had greater than 25% crown rust.

Horizon 270 led ten entries for two years, statewide, with a yield of 114.0 bu/acre (Table 9). The varieties Horizon 201, LA99016, TAMO 406, TAMO 411 and LA99017 also had two year yields above 81.0 bu/acre and crown rust scores of 9% or below. FL02011NUDA had the highest statewide two year test weight, well above the mean of 33.2 lbs/bu. and a crown rust rating of 1%.

Horizon 270 led eight entries statewide for three years with a yield of 85.4 bu/acre (Table 10). The varieties Horizon 201 and LA99016 also had yields above 75 bu/acre compared to the mean of 70.8 bu/acre. LA99016, LA99017 and Horizon 270 also led statewide for three years, all with test weights above 31 lbs/bu. The three year test weight mean was 30.5 lbs/bu. These four varieties all had crown rust ratings of 2% or less.

### **Baton Rouge:**

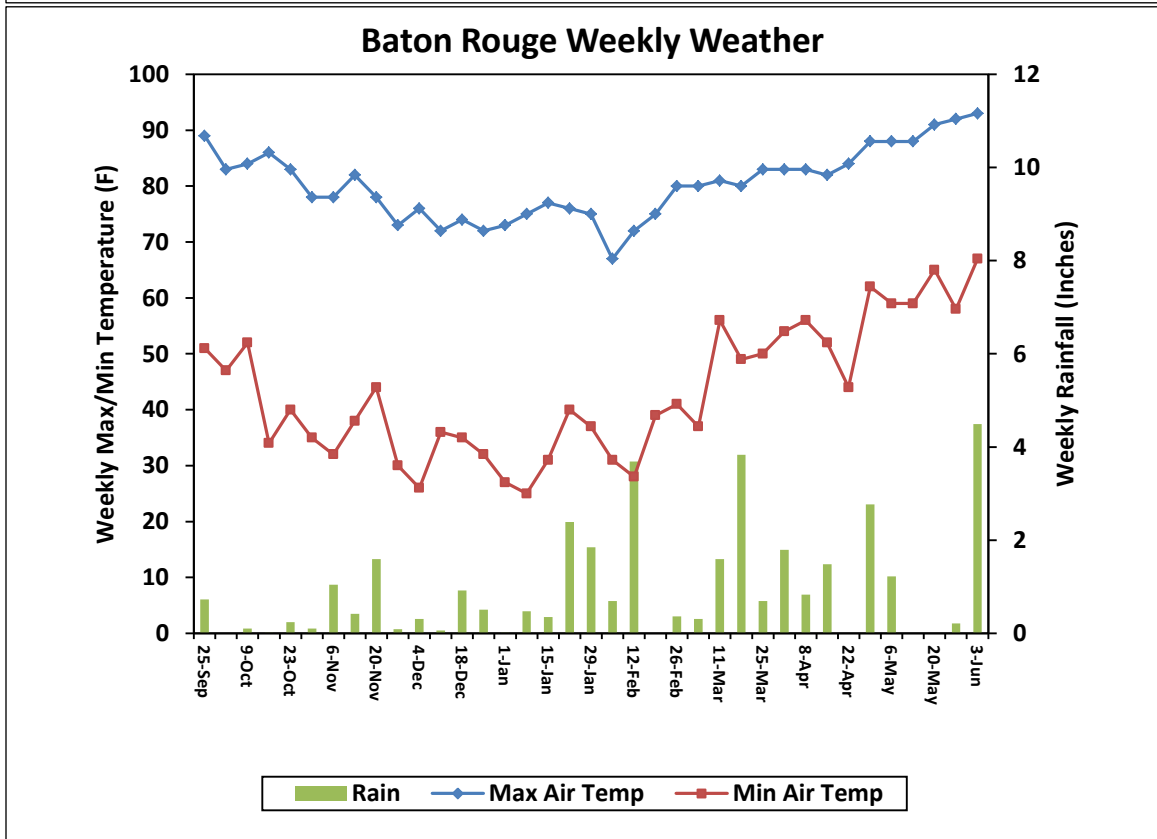
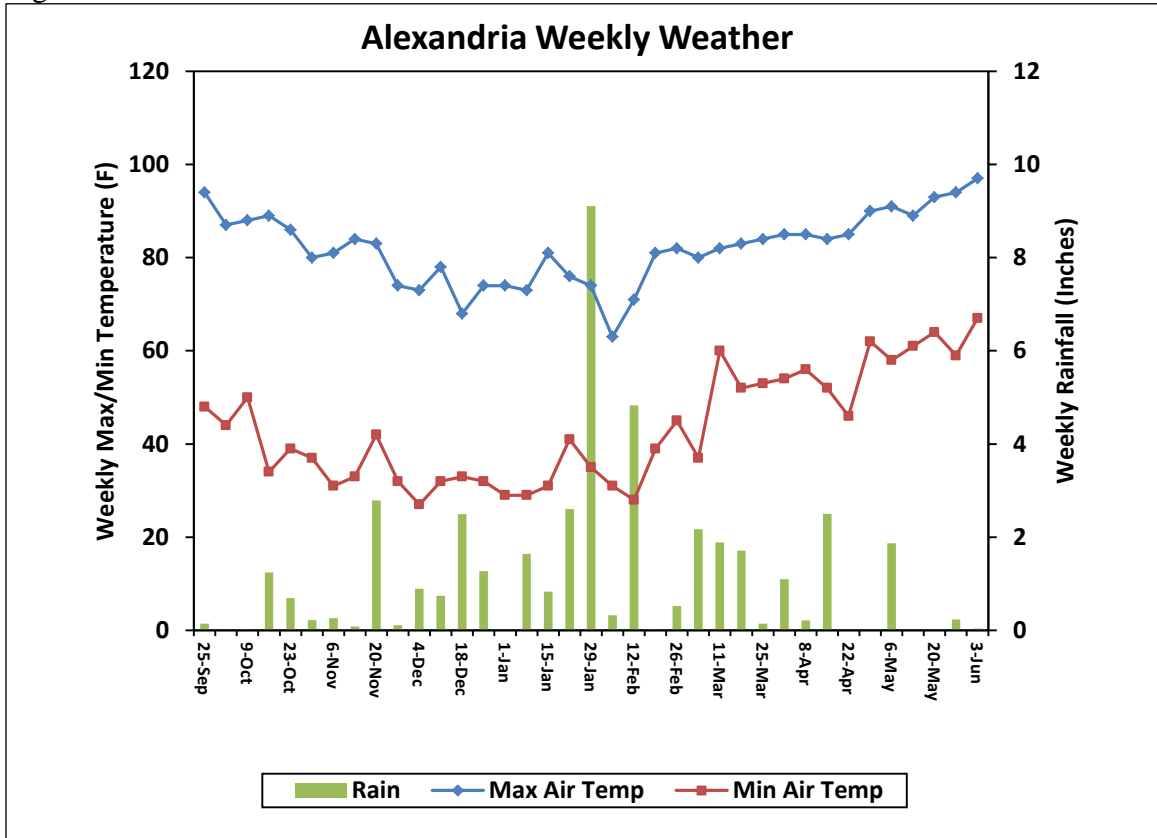
Oat yields and test weights were poor at Baton Rouge in 2012 due to weather, severe lodging, and high crown rust pressure, with an average of only 46.8 bu/acre. Horizon 270 (82.8 bu/acre) was the highest yielding of twenty four entries tested at Baton Rouge in 2012 (Table 11). LA06012SBS-2 and TX05CS542 also had yields of 70 bu/acre or above compared to the mean of 46.8 bu/acre. FL02011NUDA (38.7 lbs/bu) had the highest test weight, well above the mean of 28.8 lbs/bu. Crown rust was severe with a mean incidence of 15% and contributed to reduced yields. The top two yielding entries had crown rust ratings of 0%. Winter stress was significant at Baton Rouge ranging from 2.5 to 6.5 with a mean of 3.6 (0-9 scale). Several strong storms prior to harvest contributed to lodging which averaged 4.0 (0-9 scale) and poor seed quality which averaged 6.5 (0-9 scale). By harvest, lodging was worse than the ratings would indicate and it was very difficult to combine plots uniformly, which contributed to high variability in yields. Heading day averaged between 75 and 95 with a mean of 87 (March 28). The two highest yielding entries both headed within three days of the mean.

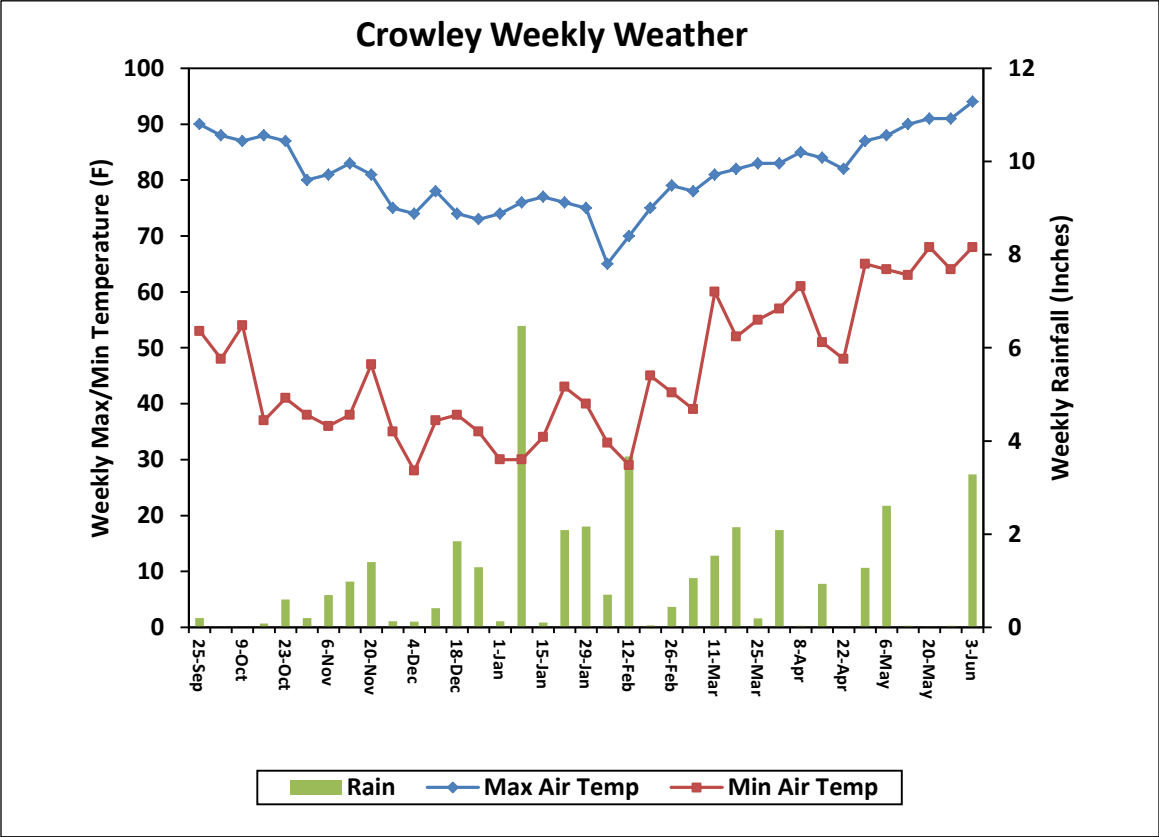
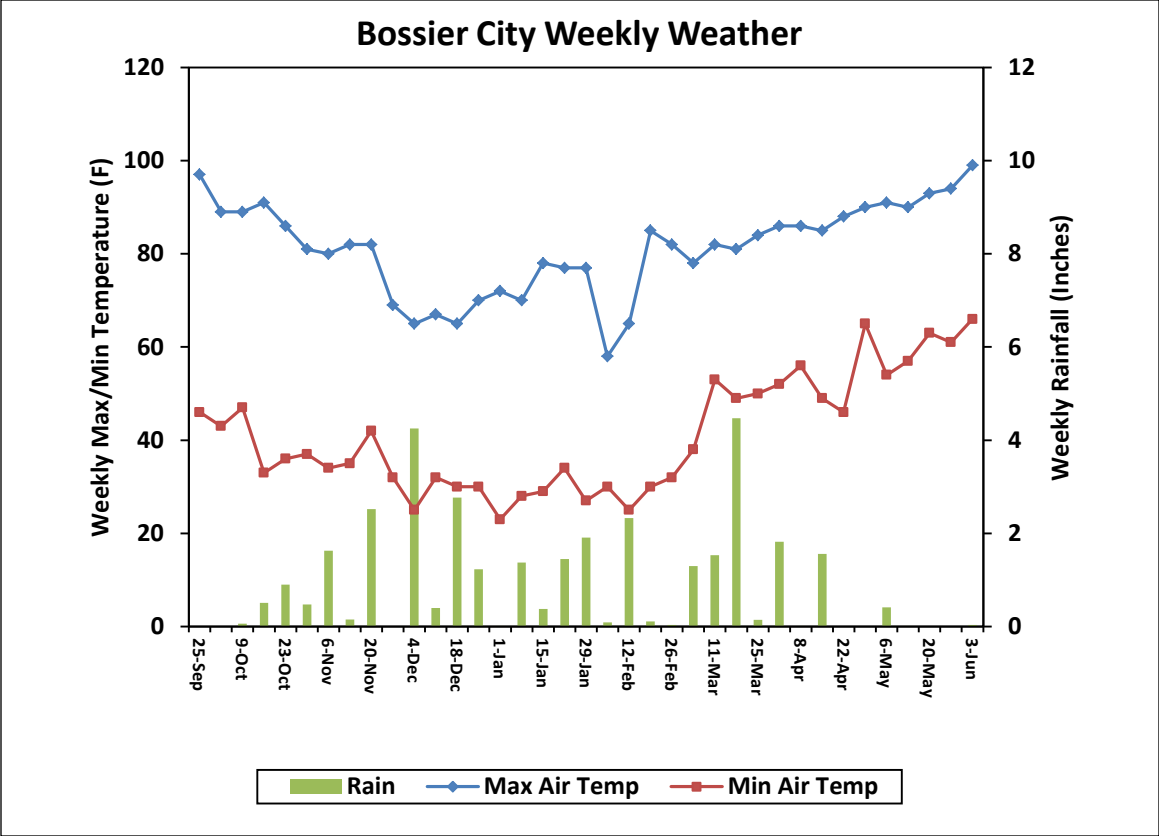
### **Winnsboro:**

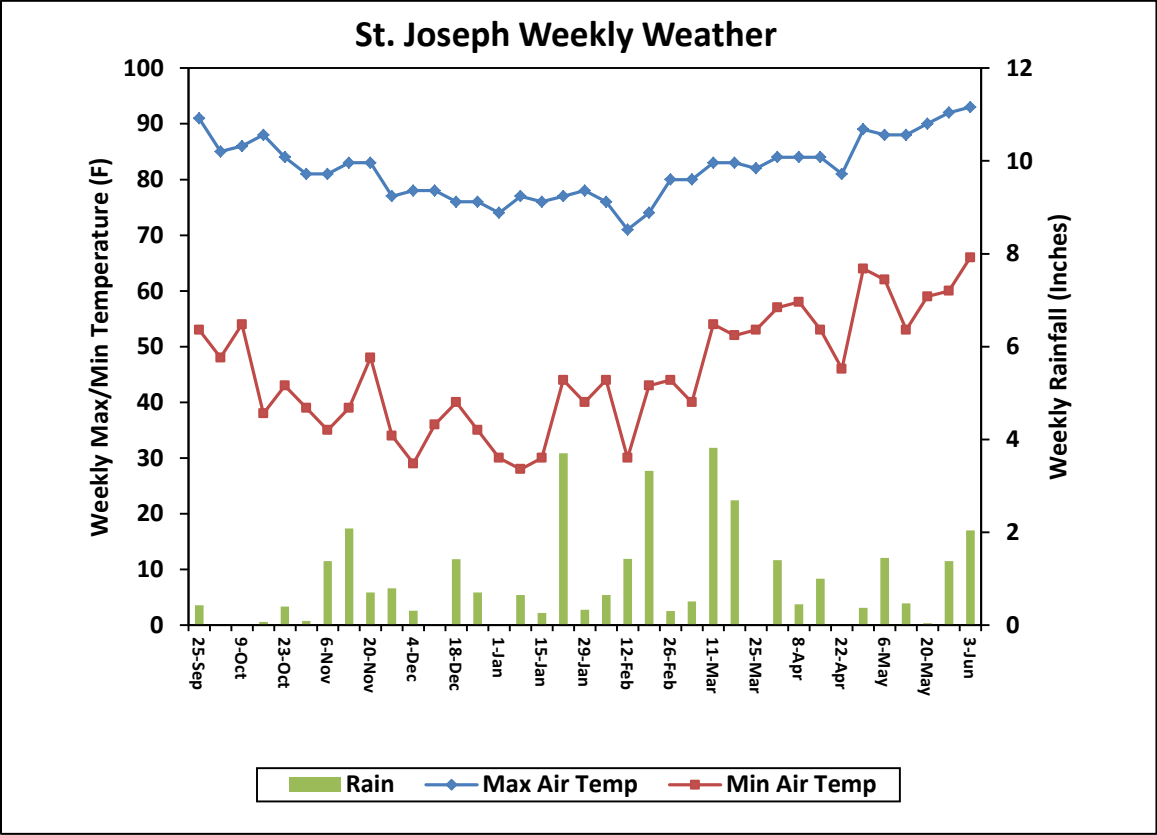
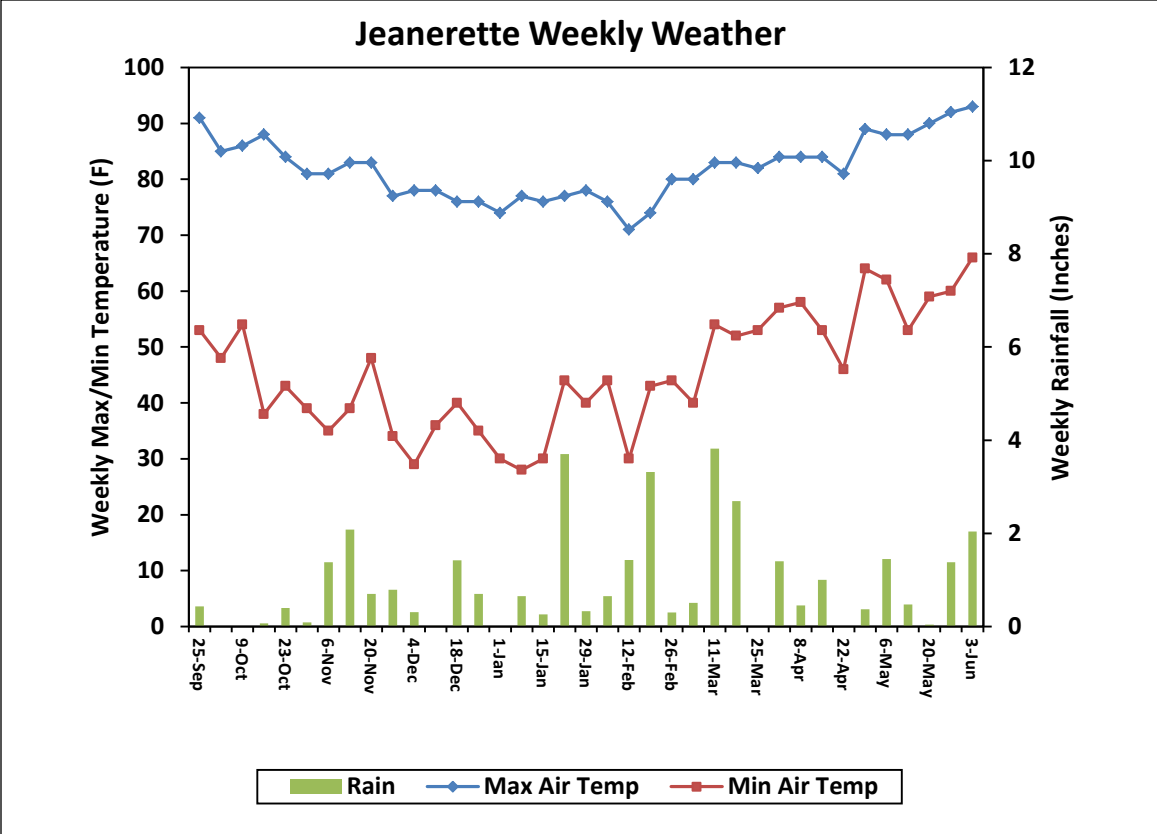
Oat performance at Winnsboro was far superior to that of Baton Rouge due to cooler temperatures, lower rainfall, and less severe spring storms. Horizon 270 (146.4 bu/acre) had the highest yield of twenty four entries at Winnsboro in 2012 (Table 12), far exceeding the mean of 94.9 bu/acre. The breeding lines FL06050-N2 and LA05011GSBS-30 also had yields above 130 bu/acre. The hull-less variety FL02011NUDA (44.8 lbs/bu) had the highest test weight followed

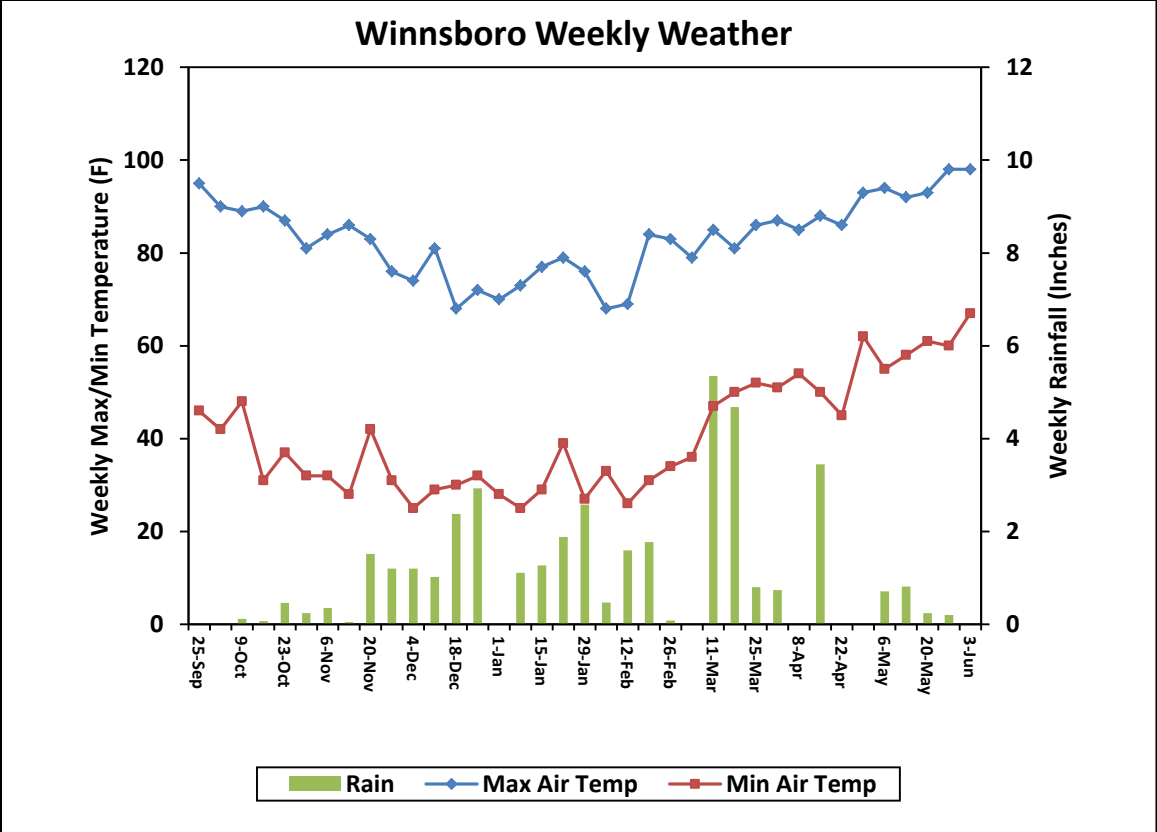
by LA99016 (37.1 bu/acre) and Horizon 270 (36.7 bu/acre). The test weight mean was 34.7 lbs/bu. Heading day ranged from 77 to 95 with a mean of 88 (March 29). The two highest yielding entries, Horizon 270 and FL06050-N2, both headed within three days of the mean. Crown rust pressure was low at Winnsboro with a mean rating of 3.4%. Twenty of the twenty four entries had crown rust ratings of 0%.

Figure 1.











**Table 1. Wheat performance trial across North Louisiana (St. Joseph and Winnsboro) 2012.**

Brand / variety	Grain	Test	Head	Plant	Lod	Leaf	Leaf <sup>#1</sup>	Pheno
	Yield	Wt	day	Ht	score	Rust	Blotch	type
	bu/a	lbs/bu	of yr	in	0-9	%	0-9	0-9
<b>PIIONEER 26R41</b>	<b>71.6</b>	<b>57.2</b>	<b>86</b>	<b>37</b>	<b>0.1</b>	<b>0</b>	<b>1.0</b>	<b>4.1</b>
<b>PIIONEER 26R87</b>	<b>69.8</b>	<b>59.3</b>	<b>79</b>	<b>36</b>	<b>0.5</b>	<b>0</b>	<b>2.5</b>	<b>4.4</b>
<b>US G 3120</b>	<b>69.3</b>	<b>58.7</b>	<b>76</b>	<b>37</b>	<b>1.5</b>	<b>0</b>	<b>1.5</b>	<b>3.4</b>
LA04041D-85	68.9	57.1	76	32	0.3	0	3.0	3.6
ARX1133	68.9	55.8	90	36	0.5	2	1.0	5.3
<b>AGS 2056</b>	<b>68.5</b>	<b>55.2</b>	<b>91</b>	<b>36</b>	<b>0.1</b>	<b>7</b>	<b>1.0</b>	<b>4.5</b>
EXP32110	68.0	56.0	86	37	1.0	0	1.5	4.6
<b>PROGENY 870</b>	<b>67.6</b>	<b>54.5</b>	<b>90</b>	<b>35</b>	<b>0.4</b>	<b>7</b>	<b>4.0</b>	<b>4.8</b>
<b>PIIONEER 26R53</b>	<b>67.4</b>	<b>57.6</b>	<b>89</b>	<b>35</b>	<b>0.4</b>	<b>2</b>	<b>1.5</b>	<b>4.3</b>
<b>AGS 2060</b>	<b>66.7</b>	<b>58.9</b>	<b>78</b>	<b>36</b>	<b>1.9</b>	<b>0</b>	<b>4.5</b>	<b>4.6</b>
<b>JAMES TOWN</b>	<b>65.8</b>	<b>59.6</b>	<b>77</b>	<b>35</b>	<b>0.8</b>	<b>1</b>	<b>4.5</b>	<b>4.1</b>
<b>US G 3555</b>	<b>65.7</b>	<b>56.3</b>	<b>80</b>	<b>33</b>	<b>0.4</b>	<b>0</b>	<b>1.0</b>	<b>4.5</b>
PROGENY PGX 11-8	65.5	57.0	87	37	0.5	8	2.0	4.6
<b>DIXIE KELSEY</b>	<b>65.1</b>	<b>57.5</b>	<b>88</b>	<b>37</b>	<b>0.8</b>	<b>23</b>	<b>1.0</b>	<b>5.1</b>
<b>AGS 2038</b>	<b>64.7</b>	<b>58.0</b>	<b>80</b>	<b>40</b>	<b>0.6</b>	<b>0</b>	<b>2.5</b>	<b>4.1</b>
<b>SYNGENTA ARCADIA</b>	<b>64.4</b>	<b>57.8</b>	<b>76</b>	<b>38</b>	<b>0.8</b>	<b>0</b>	<b>3.0</b>	<b>4.1</b>
DYNA-GRO 9171	64.4	54.9	89	37	0.6	9	1.0	4.8
<b>DYNA-GRO BALDWIN</b>	<b>64.3</b>	<b>57.9</b>	<b>85</b>	<b>41</b>	<b>0.0</b>	<b>0</b>	<b>3.5</b>	<b>4.5</b>
VA05W-151	64.2	56.2	84	36	3.3	1	1.5	4.4
<b>AGS 2035</b>	<b>63.5</b>	<b>57.8</b>	<b>77</b>	<b>40</b>	<b>1.0</b>	<b>0</b>	<b>4.0</b>	<b>4.0</b>
<b>TERRAL TV8535</b>	<b>63.2</b>	<b>55.0</b>	<b>90</b>	<b>34</b>	<b>0.4</b>	<b>3</b>	<b>1.0</b>	<b>4.9</b>
LA05130D-P5	63.1	58.1	80	34	1.1	0	3.0	3.9
<b>US G 3201</b>	<b>63.1</b>	<b>58.3</b>	<b>89</b>	<b>34</b>	<b>0.9</b>	<b>12</b>	<b>1.0</b>	<b>4.9</b>
<b>PROGENY 125</b>	<b>63.0</b>	<b>54.3</b>	<b>77</b>	<b>37</b>	<b>1.6</b>	<b>19</b>	<b>4.0</b>	<b>4.0</b>
<b>SYNGENTA HARRISON</b>	<b>62.8</b>	<b>53.4</b>	<b>89</b>	<b>34</b>	<b>0.3</b>	<b>29</b>	<b>1.0</b>	<b>4.4</b>
<b>DELTA GROW 7500</b>	<b>62.6</b>	<b>55.3</b>	<b>91</b>	<b>36</b>	<b>0.0</b>	<b>8</b>	<b>1.0</b>	<b>5.1</b>
<b>DIXIE MCALISTER</b>	<b>61.3</b>	<b>54.7</b>	<b>90</b>	<b>35</b>	<b>0.0</b>	<b>10</b>	<b>1.0</b>	<b>4.6</b>
<b>TERRAL TV8848</b>	<b>61.3</b>	<b>54.3</b>	<b>89</b>	<b>36</b>	<b>1.3</b>	<b>13</b>	<b>1.0</b>	<b>4.8</b>
ARX1109	61.3	54.9	89	33	0.9	10	1.0	4.8
LA01110D-150	61.0	56.5	77	37	1.3	0	3.5	3.9
<b>DELTA GROW 5000</b>	<b>60.6</b>	<b>55.4</b>	<b>77</b>	<b>38</b>	<b>1.1</b>	<b>5</b>	<b>3.5</b>	<b>5.0</b>
LA02024E12	60.1	57.5	76	41	0.8	0	3.5	3.4
<b>PIIONEER 26R10</b>	<b>60.1</b>	<b>53.2</b>	<b>90</b>	<b>36</b>	<b>0.6</b>	<b>19</b>	<b>1.5</b>	<b>4.0</b>
<b>PROGENY 117</b>	<b>59.9</b>	<b>56.5</b>	<b>78</b>	<b>42</b>	<b>2.4</b>	<b>23</b>	<b>3.5</b>	<b>4.5</b>
<b>US G 3438</b>	<b>59.6</b>	<b>54.4</b>	<b>90</b>	<b>34</b>	<b>0.3</b>	<b>2</b>	<b>1.0</b>	<b>4.6</b>
EXP32111	59.5	54.5	87	35	0.6	33	1.0	4.3
<b>TERRAL LA841</b>	<b>59.0</b>	<b>55.2</b>	<b>76</b>	<b>34</b>	<b>2.1</b>	<b>0</b>	<b>4.5</b>	<b>3.4</b>
<b>DELTA GROW 8600</b>	<b>59.0</b>	<b>56.6</b>	<b>90</b>	<b>37</b>	<b>0.9</b>	<b>22</b>	<b>1.0</b>	<b>4.9</b>
<b>TERRAL TV8861</b>	<b>58.8</b>	<b>55.4</b>	<b>91</b>	<b>37</b>	<b>2.0</b>	<b>14</b>	<b>1.0</b>	<b>4.5</b>
EXP31113	58.0	53.2	89	39	2.4	42	1.0	4.4
EPX32112	57.5	50.4	87	40	1.1	0	1.0	4.8
LA04110D-7	56.9	58.6	76	39	1.5	0	4.0	4.1
<b>TERRAL TV8525</b>	<b>56.8</b>	<b>56.2</b>	<b>86</b>	<b>41</b>	<b>1.3</b>	<b>42</b>	<b>2.0</b>	<b>4.4</b>
VA08W-294	56.7	56.3	80	35	1.0	0	3.0	4.1
LA04026D-7	56.7	58.2	77	37	3.3	0	4.0	4.9



**Table 1. Wheat performance trial across North Louisiana (St. Joseph and Winnsboro) 2012.**

<b>Brand / variety</b>	<b>Grain Yield</b> bu/a	<b>Test Wt</b> lbs/bu	<b>Head</b> day of yr	<b>Plant</b> Ht in	<b>Lod</b> score 0-9	<b>Leaf</b> Rust %	<b>Leaf<sup>#1</sup></b> Blotch 0-9	<b>Pheno</b> type 0-9
LA95135	56.4	56.4	82	38	1.8	0	2.0	4.1
<b>ARMOR RAMPAGE</b>	<b>56.3</b>	<b>51.6</b>	<b>84</b>	<b>39</b>	<b>2.1</b>	<b>21</b>	<b>1.5</b>	<b>4.3</b>
<b>SYNGENTA COKER 9553</b>	<b>56.2</b>	<b>58.3</b>	<b>79</b>	<b>37</b>	<b>1.4</b>	<b>1</b>	<b>3.0</b>	<b>3.8</b>
<b>PIONEER 26R61</b>	<b>55.9</b>	<b>58.3</b>	<b>79</b>	<b>38</b>	<b>0.0</b>	<b>0</b>	<b>4.0</b>	<b>4.4</b>
<b>US G 3251</b>	<b>54.9</b>	<b>54.4</b>	<b>91</b>	<b>44</b>	<b>0.4</b>	<b>27</b>	<b>1.0</b>	<b>4.9</b>
LA02015E58	54.6	58.1	75	40	1.0	0	5.0	3.5
<b>TERRAL LA821</b>	<b>54.5</b>	<b>57.5</b>	<b>74</b>	<b>37</b>	<b>1.9</b>	<b>0</b>	<b>4.0</b>	<b>4.0</b>
ARX1107	54.4	53.4	88	40	1.4	76	1.5	5.0
<b>PROGENY 185</b>	<b>54.0</b>	<b>55.2</b>	<b>87</b>	<b>43</b>	<b>0.3</b>	<b>8</b>	<b>1.5</b>	<b>5.0</b>
USG 3562	54.0	56.0	91	36	0.5	26	1.0	4.3
GA021245-9E16	54.0	57.1	75	38	0.8	0	5.0	4.8
<b>DIXIE EXP 1112</b>	<b>53.6</b>	<b>52.4</b>	<b>89</b>	<b>40</b>	<b>2.5</b>	<b>49</b>	<b>1.0</b>	<b>4.9</b>
<b>DYNA-GRO OGLETHORPE</b>	<b>53.3</b>	<b>54.2</b>	<b>77</b>	<b>34</b>	<b>2.4</b>	<b>0</b>	<b>2.5</b>	<b>3.5</b>
<b>AGS 2026</b>	<b>53.1</b>	<b>56.2</b>	<b>77</b>	<b>37</b>	<b>3.3</b>	<b>0</b>	<b>2.5</b>	<b>3.8</b>
LA02015E201	52.7	58.1	73	38	1.3	0	5.0	4.0
<b>DELTA GROW 7900</b>	<b>52.5</b>	<b>58.4</b>	<b>88</b>	<b>36</b>	<b>3.3</b>	<b>14</b>	<b>3.0</b>	<b>5.1</b>
<b>SYNGENTA MAGNOLIA</b>	<b>51.0</b>	<b>55.8</b>	<b>80</b>	<b>34</b>	<b>1.3</b>	<b>44</b>	<b>6.0</b>	<b>5.0</b>
<b>DELTA GROW 7300</b>	<b>48.7</b>	<b>50.2</b>	<b>91</b>	<b>34</b>	<b>1.1</b>	<b>23</b>	<b>1.0</b>	<b>4.8</b>
<b>RICOCHET</b>	<b>47.4</b>	<b>53.1</b>	<b>92</b>	<b>35</b>	<b>0.5</b>	<b>1</b>	<b>1.0</b>	<b>5.0</b>
LA03045E-4	46.9	55.6	74	37	2.1	0	6.5	4.5
<b>PROGENY PGX 11-14</b>	<b>46.5</b>	<b>52.3</b>	<b>89</b>	<b>40</b>	<b>1.8</b>	<b>64</b>	<b>1.0</b>	<b>4.5</b>
<b>TERRAL TV8626</b>	<b>44.4</b>	<b>53.8</b>	<b>92</b>	<b>34</b>	<b>1.9</b>	<b>49</b>	<b>1.0</b>	<b>4.6</b>
<b>AGS 2052</b>	<b>41.2</b>	<b>49.7</b>	<b>91</b>	<b>37</b>	<b>1.3</b>	<b>43</b>	<b>1.5</b>	<b>5.6</b>
<b>PROGENY 357</b>	<b>39.0</b>	<b>49.3</b>	<b>91</b>	<b>35</b>	<b>1.3</b>	<b>50</b>	<b>1.5</b>	<b>5.0</b>
<b>Mean</b>	<b>59.0</b>	<b>55.7</b>	<b>84</b>	<b>37</b>	<b>1</b>	<b>13</b>	<b>2.3</b>	<b>4.4</b>
<b>CV%</b>	<b>13</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>118</b>	<b>140</b>	<b>44</b>	<b>17</b>
<b>LSD (0.10)</b>	<b>9.2</b>	<b>1.8</b>	<b>2</b>	<b>4</b>	<b>1.4</b>	<b>26</b>	<b>1.7</b>	<b>0.8</b>

Purvis.

\*1 Leaf blotch is a combination of bacterial streak and septoria with saprophytes thrown in. Frost damage, severe rain storms and wind-whipping caused significant leaf necrosis.

**Bold** 'Brand/variety' indicates the entry is commercially available, others are non-released breeding lines.

**NS** indicates non-significant differences among varieties





Table 2. Wheat performance trial across North Louisiana for two years, 2011 and 2012.

	Grain Yield	Test Wt	Head Day	Plant Ht	Lod Score	Stripe* Rust	Leaf Rust	Pheno type
	bu/acre	lbs/bu	of yr	in	0-9	%	%	0-9
<b>USG 3120</b>	76.7	59.2	81	50	1.0	4	0	3.4
<b>PIONEER 26R87</b>	76.0	60.2	83	47	0.3	5	0	4.0
<b>JAMESTOWN</b>	74.2	60.3	81	45	0.5	0	0	3.6
<b>PROGENY 870</b>	73.2	55.4	92	46	0.3	0	3	4.2
<b>TERRAL TV8861</b>	72.6	56.7	93	49	1.3	1	6	4.1
<b>AGS 2035</b>	72.3	58.8	81	52	0.7	1	0	3.6
LA01110D-150	71.9	57.6	82	49	0.8	14	1	4.6
<b>DELTA GROW 7500</b>	71.4	55.4	92	48	0.0	0	3	4.2
<b>AGS 2060</b>	71.2	60.1	83	51	1.3	2	0	3.9
<b>USG 3438</b>	71.1	55.7	91	47	0.2	0	1	4.1
<b>AGS 2056</b>	71.0	55.1	92	47	0.1	0	3	4.1
<b>DIXIE MCALISTER</b>	70.9	55.8	92	47	0.0	0	4	3.9
<b>DIXIE KELSEY</b>	70.8	59.0	92	48	0.5	0	9	4.6
<b>AGS 2038</b>	70.7	59.4	88	53	0.4	1	0	3.6
<b>PIONEER 26R10</b>	70.0	55.9	93	48	0.4	0	8	3.7
<b>USG 3555</b>	69.6	56.6	85	43	0.3	0	1	3.7
<b>TERRAL LA841</b>	69.3	56.5	82	47	1.4	0	0	3.7
<b>PROGENY 125</b>	68.9	55.4	82	47	1.1	8	20	3.7
<b>TERRAL TV8535</b>	68.8	55.7	91	47	0.3	0	2	4.3
<b>DYNA-GRO BALDWIN</b>	68.8	58.9	90	54	0.0	4	1	4.1
<b>TERRAL TV8848</b>	68.5	56.5	92	49	0.8	0	5	4.2
<b>TERRAL TV8525</b>	68.2	57.4	90	50	0.8	3	17	4.1
<b>DYNA-GRO OGLETHORPE</b>	68.0	56.4	82	45	1.6	2	0	3.7
<b>USG 3201</b>	67.3	58.9	92	46	0.6	0	6	4.3
<b>DELTA GROW 5000</b>	67.1	56.2	82	48	0.8	0	17	4.3
<b>USG 3251</b>	66.8	55.7	93	53	0.3	1	11	4.3
<b>SYNGENTA COKER 9553</b>	66.3	59.4	84	49	0.9	0	1	3.4
<b>SYNGENTA ARCADIA</b>	65.6	57.3	81	48	0.5	63	0	5.1
<b>TERRAL LA821</b>	65.4	58.3	80	49	1.3	6	0	4.2
<b>PROGENY 117</b>	65.1	56.3	84	53	1.6	6	15	4.9
<b>AGS 2026</b>	64.0	57.7	82	47	2.2	1	1	3.7
<b>PIONEER 26R61</b>	63.2	59.3	85	50	0.0	30	0	4.3
<b>PROGENY 357</b>	62.6	53.0	94	48	0.8	1	20	4.3
<b>PROGENY 185</b>	62.6	56.7	90	54	0.2	13	4	5.1
<b>SYNGENTA MAGNOLIA</b>	62.2	57.0	85	49	0.8	1	18	4.3
<b>TERRAL TV8626</b>	61.8	55.0	94	47	1.3	4	20	4.3
<b>DELTA GROW 7900</b>	60.9	58.2	90	49	2.2	12	9	4.7
<b>AGS 2052</b>	57.7	53.1	94	49	0.8	2	17	4.6
<b>MEAN</b>	68.2	57.1	87	49	0.7	5	6	4.2
<b>CV%</b>	10	4	1	5	146.0		19	14
<b>LSD (0.10)</b>	6.1	1.5	2	4	1.1		13	0.7
<b>Data from 2011 at Dean Lee (Alexandria), Northeast (St. Joseph) and Macon Ridge (Winnsboro); and 2012 NERS and</b>								
<b>* Stripe rust from 2011 Winnsboro only.</b>								
<b>Bold 'Brand/variety' indicates the entry is commercially available, others are non-released breeding lines.</b>								



**Table 3. Wheat performance trial across North Louisiana for three years, 2010, 2011 and 2012.**

	Grain Yield	Test Wt	Head Day	Plant Ht	Lod Score	Stripe* Rust	Leaf Rust	Leaf Blotch	Pheno type
	bu/acre	lbs/bu	of yr	in	0-9	%	%	0-9	0-9
USG 3120	69.1	58.1	87	37	0.9	2	0	1.5	3.7
JAMES TOWN	68.5	59.1	87	33	0.4	0	0	4.5	3.5
PIONEER 26R87	68.3	59.4	89	35	0.3	8	0	2.5	4.1
TERRAL TV8861	67.8	56.5	97	35	1.1	0	6	1.0	3.9
LA01110D-150	67.0	57.0	87	36	0.7	5	1	3.5	4.5
AGS 2035	66.7	57.9	87	38	0.6	0	0	4.0	3.6
US G 3438	66.1	55.5	95	35	0.1	0	1	1.0	4.2
TERRAL LA841	64.8	56.0	87	35	1.2	0	0	4.5	3.7
DYNA-GRO BALDWIN	64.4	58.0	95	40	0.0	1	1	3.5	4.0
AGS 2060	64.3	59.5	89	39	1.1	4	0	4.5	3.9
DYNA-GRO OGLETHORPE	64.2	56.0	87	34	1.4	1	0	2.5	3.7
US G 3555	64.0	56.2	90	32	0.2	0	1	1.0	3.8
US G 3201	63.9	58.1	96	34	0.5	0	6	1.0	4.3
SYNGENTA COKER 9553	63.4	58.5	89	37	0.8	0	1	3.0	3.5
PROGENY 125	63.1	55.1	87	35	0.9	3	20	4.0	3.8
DELTA GROW 5000	62.5	55.4	88	35	0.6	0	17	3.5	4.2
PROGENY 117	61.3	55.8	89	38	1.4	6	15	3.5	5.0
SYNGENTA MAGNOLIA	60.5	56.6	91	38	0.7	1	18	6.0	4.1
TERRAL LA821	60.5	57.2	86	36	1.1	5	0	4.0	4.0
SYNGENTA ARCADIA	60.1	57.3	87	35	0.4	21	0	3.0	4.9
AGS 2026	59.3	56.8	87	35	1.9	1	1	2.5	3.8
PIONEER 26R61	59.0	58.4	90	37	0.0	10	0	4.0	4.3
PROGENY 185	58.4	56.2	94	38	0.1	16	4	1.5	5.2
MEAN	63.8	57.1	90	36	0.7	4	4	3	3.0
CV%	11	3	1	5	164	100	135		37
LSD (0.10)	4.0	0.8	2	1	1.0	10.7	12		0.6

Data from 2010 Alexandria (Dean Lee), Bossier City (Red River), St. Joseph (Northeast) and Winnsboro (Macon Ridge) Research Stations; 2011 at Dean Lee, Northeast, and Macon Ridge; and 2012 Northeast and Macon Ridge Research Stations.

**Bold** 'Brand/variety' indicates the entry is commercially available, others are non-released breeding lines.



**Table 4. Wheat performance trial at St. Joseph, LA for 2012.**

Brand / variety	Grain Yield		Test	Head	Plant	Lod	Leaf	Pheno	
	2012	rnk	2-Yr	Wt	Day	Ht	score	Rust	type
	bu/a			lbs/bu	of yr	in	0-9	%	
<b>PIONEER 26R87</b>	<b>62.6</b>	<b>4</b>	<b>70.3</b>	<b>59.5</b>	<b>78.5</b>	<b>35.8</b>	<b>1.0</b>	<b>0</b>	<b>4.5</b>
<b>US G 3120</b>	<b>57.9</b>	<b>18</b>	<b>69.9</b>	<b>57.4</b>	<b>74.5</b>	<b>37.4</b>	<b>3.0</b>	<b>0</b>	<b>3.0</b>
<b>JAMES TOWN</b>	<b>56.8</b>	<b>20</b>	<b>68.8</b>	<b>59.1</b>	<b>76.5</b>	<b>34.6</b>	<b>1.5</b>	<b>1</b>	<b>4.0</b>
<b>DIXIE KELSEY</b>	<b>60.1</b>	<b>12</b>	<b>68.6</b>	<b>56.9</b>	<b>89.0</b>	<b>37.4</b>	<b>1.5</b>	<b>2</b>	<b>5.0</b>
<b>DELTA GROW 7500</b>	<b>59.4</b>	<b>13</b>	<b>67.6</b>	<b>55.8</b>	<b>91.5</b>	<b>36.2</b>	<b>0.0</b>	<b>0</b>	<b>4.0</b>
<b>PROGENY 870</b>	<b>56.8</b>	<b>21</b>	<b>67.0</b>	<b>53.1</b>	<b>90.5</b>	<b>34.6</b>	<b>0.8</b>	<b>0</b>	<b>4.5</b>
USG 3438	51.3	35	66.9	53.6	90.0	33.9	0.5	1	4.0
<b>US G 3251</b>	<b>50.6</b>	<b>38</b>	<b>66.5</b>	<b>54.3</b>	<b>91.0</b>	<b>43.9</b>	<b>0.8</b>	<b>0</b>	<b>4.0</b>
<b>PIONEER 26R10</b>	<b>56.0</b>	<b>24</b>	<b>66.4</b>	<b>53.2</b>	<b>90.5</b>	<b>36.0</b>	<b>1.3</b>	<b>6</b>	<b>4.0</b>
<b>DIXIE MCALISTER</b>	<b>54.3</b>	<b>27</b>	<b>66.2</b>	<b>54.4</b>	<b>89.5</b>	<b>34.6</b>	<b>0.0</b>	<b>0</b>	<b>4.0</b>
<b>DYNA-GRO BALDWIN</b>	<b>61.8</b>	<b>5</b>	<b>65.7</b>	<b>58.4</b>	<b>85.0</b>	<b>40.6</b>	<b>0.0</b>	<b>0</b>	<b>4.0</b>
<b>US G 3555</b>	<b>61.1</b>	<b>7</b>	<b>65.6</b>	<b>56.8</b>	<b>79.0</b>	<b>33.1</b>	<b>0.8</b>	<b>0</b>	<b>4.0</b>
LA01110D-150	49.0	42	65.3	56.1	76.5	36.8	2.5	0	4.0
<b>AGS 2056</b>	<b>61.0</b>	<b>9</b>	<b>64.8</b>	<b>53.9</b>	<b>91.0</b>	<b>36.2</b>	<b>0.3</b>	<b>0</b>	<b>4.0</b>
<b>AGS 2035</b>	<b>55.9</b>	<b>25</b>	<b>64.2</b>	<b>57.8</b>	<b>76.0</b>	<b>40.0</b>	<b>2.0</b>	<b>0</b>	<b>4.0</b>
<b>AGS 2038</b>	<b>60.4</b>	<b>11</b>	<b>63.7</b>	<b>58.1</b>	<b>79.0</b>	<b>39.8</b>	<b>1.3</b>	<b>0</b>	<b>4.0</b>
<b>SYNGENTA COKER 9553</b>	<b>52.7</b>	<b>29</b>	<b>63.4</b>	<b>57.8</b>	<b>79.0</b>	<b>36.8</b>	<b>2.3</b>	<b>2</b>	<b>4.0</b>
<b>TERRAL TV8535</b>	<b>58.4</b>	<b>16</b>	<b>63.0</b>	<b>54.5</b>	<b>90.0</b>	<b>34.3</b>	<b>0.8</b>	<b>0</b>	<b>4.5</b>
<b>SYNGENTA ARCADIA</b>	<b>58.5</b>	<b>15</b>	<b>62.8</b>	<b>57.5</b>	<b>75.0</b>	<b>37.6</b>	<b>1.5</b>	<b>0</b>	<b>4.0</b>
<b>TERRAL TV8861</b>	<b>47.6</b>	<b>48</b>	<b>62.7</b>	<b>55.4</b>	<b>91.5</b>	<b>37.2</b>	<b>2.5</b>	<b>0</b>	<b>4.0</b>
<b>TERRAL TV8525</b>	<b>49.6</b>	<b>39</b>	<b>62.6</b>	<b>56.1</b>	<b>86.0</b>	<b>40.9</b>	<b>2.3</b>	<b>25</b>	<b>4.0</b>
<b>PIONEER 26R61</b>	<b>56.7</b>	<b>22</b>	<b>62.1</b>	<b>58.7</b>	<b>77.0</b>	<b>38.0</b>	<b>0.0</b>	<b>0</b>	<b>4.0</b>
<b>AGS 2060</b>	<b>57.9</b>	<b>17</b>	<b>61.6</b>	<b>58.4</b>	<b>78.0</b>	<b>35.8</b>	<b>2.3</b>	<b>0</b>	<b>3.5</b>
<b>US G 3201</b>	<b>50.9</b>	<b>37</b>	<b>61.1</b>	<b>57.4</b>	<b>89.0</b>	<b>34.3</b>	<b>1.8</b>	<b>2</b>	<b>4.5</b>
<b>PROGENY 117</b>	<b>52.7</b>	<b>28</b>	<b>60.7</b>	<b>56.1</b>	<b>77.5</b>	<b>41.9</b>	<b>3.8</b>	<b>28</b>	<b>4.0</b>
<b>PROGENY 125</b>	<b>48.4</b>	<b>44</b>	<b>60.0</b>	<b>53.5</b>	<b>77.0</b>	<b>36.8</b>	<b>2.3</b>	<b>28</b>	<b>4.0</b>
<b>DYNA-GRO OGLETHORPE</b>	<b>46.0</b>	<b>54</b>	<b>59.3</b>	<b>53.3</b>	<b>76.0</b>	<b>34.1</b>	<b>4.0</b>	<b>0</b>	<b>3.5</b>
<b>TERRAL LA841</b>	<b>47.0</b>	<b>50</b>	<b>59.1</b>	<b>54.1</b>	<b>75.5</b>	<b>34.1</b>	<b>3.5</b>	<b>3</b>	<b>2.5</b>
<b>DELTA GROW 5000</b>	<b>54.4</b>	<b>26</b>	<b>59.0</b>	<b>55.4</b>	<b>77.0</b>	<b>38.0</b>	<b>2.0</b>	<b>8</b>	<b>4.5</b>
<b>PROGENY 357</b>	<b>36.7</b>	<b>68</b>	<b>58.9</b>	<b>50.5</b>	<b>92.0</b>	<b>34.8</b>	<b>1.8</b>	<b>27</b>	<b>4.5</b>
<b>TERRAL TV8848</b>	<b>47.7</b>	<b>47</b>	<b>57.3</b>	<b>53.9</b>	<b>88.5</b>	<b>36.4</b>	<b>2.5</b>	<b>0</b>	<b>4.5</b>
<b>TERRAL TV8626</b>	<b>36.9</b>	<b>67</b>	<b>56.4</b>	<b>58.5</b>	<b>93.0</b>	<b>34.3</b>	<b>3.5</b>	<b>23</b>	<b>4.5</b>
<b>PROGENY 185</b>	<b>46.4</b>	<b>52</b>	<b>56.3</b>	<b>54.8</b>	<b>86.0</b>	<b>43.3</b>	<b>0.5</b>	<b>9</b>	<b>4.5</b>
<b>SYNGENTA MAGNOLIA</b>	<b>48.0</b>	<b>45</b>	<b>55.7</b>	<b>55.7</b>	<b>79.0</b>	<b>34.1</b>	<b>2.5</b>	<b>5</b>	<b>4.0</b>
<b>DELTA GROW 7900</b>	<b>42.6</b>	<b>57</b>	<b>52.9</b>	<b>57.7</b>	<b>89.0</b>	<b>35.6</b>	<b>6.0</b>	<b>0</b>	<b>4.5</b>
<b>TERRAL LA821</b>	<b>39.1</b>	<b>63</b>	<b>52.2</b>	<b>57.9</b>	<b>73.0</b>	<b>37.2</b>	<b>3.8</b>	<b>0</b>	<b>4.0</b>
<b>AGS 2052</b>	<b>37.7</b>	<b>66</b>	<b>51.9</b>	<b>51.5</b>	<b>92.5</b>	<b>36.8</b>	<b>2.0</b>	<b>8</b>	<b>6.0</b>
<b>AGS 2026</b>	<b>38.4</b>	<b>64</b>	<b>48.8</b>	<b>55.9</b>	<b>75.5</b>	<b>36.8</b>	<b>4.5</b>	<b>0</b>	<b>3.5</b>
<b>PIONEER 26R53</b>	<b>64.4</b>	<b>1</b>		<b>58.0</b>	<b>88.0</b>	<b>34.8</b>	<b>0.8</b>	<b>0</b>	<b>4.0</b>
EXP32110	63.8	2		57.0	85.5	36.8	2.0	0	4.0
ARX1133	62.7	3		54.7	90.5	35.8	1.0	2	4.5
LA04041D-85	61.6	6		56.7	76.5	32.5	0.5	0	3.5
<b>PIONEER 26R41</b>	<b>61.0</b>	<b>8</b>		<b>57.7</b>	<b>83.5</b>	<b>36.8</b>	<b>0.3</b>	<b>0</b>	<b>4.0</b>
<b>PROGENY PGX 11-8</b>	<b>60.7</b>	<b>10</b>		<b>57.0</b>	<b>87.5</b>	<b>37.4</b>	<b>1.0</b>	<b>2</b>	<b>4.0</b>
<b>DYNA-GRO 9171</b>	<b>59.0</b>	<b>14</b>		<b>54.9</b>	<b>89.5</b>	<b>36.6</b>	<b>1.3</b>	<b>0</b>	<b>4.0</b>



**Table 4. Wheat performance trial at St. Joseph, LA for 2012.**

Brand / variety	Grain Yield		Test Wt	Head Day	Plant Ht	Lod score	Leaf Rust	Pheno type
	2012	rnk						
	bu/a		lbs/bu	of yr	in	0-9	%	
LA05130D-P5	57.6	19	57.7	81.5	34.4	2.3	0	4.0
<b>SYNGENTA HARRISON</b>	<b>56.3</b>	<b>23</b>	<b>53.7</b>	<b>89.0</b>	<b>34.4</b>	<b>0.3</b>	<b>0</b>	<b>4.0</b>
<b>ARX RAMPAGE</b>	<b>52.1</b>	<b>30</b>	<b>51.4</b>	<b>85.5</b>	<b>39.2</b>	<b>4.0</b>	<b>9</b>	<b>4.5</b>
EXP32111	51.9	31	54.8	86.5	35.2	1.3	1	4.0
LA02024E12	51.8	32	57.4	75.0	41.1	1.5	0	3.5
VA05W-151	51.6	33	55.9	84.0	36.4	5.3	3	4.0
ARX1109	51.6	34	54.2	91.5	33.5	1.8	3	4.5
<b>DELTA GROW 8600</b>	<b>51.0</b>	<b>36</b>	<b>57.4</b>	<b>89.5</b>	<b>36.6</b>	<b>1.8</b>	<b>0</b>	<b>4.0</b>
GA021245-9E16	49.5	40	57.8	75.5	38.4	0.3	0	4.0
<b>RICOCHET</b>	<b>49.2</b>	<b>41</b>	<b>52.4</b>	<b>94.0</b>	<b>34.6</b>	<b>1.0</b>	<b>0</b>	<b>4.5</b>
USG 3562	49.0	43	56.1	91.0	35.8	1.0	0	4.0
VA08W-294	47.7	46	56.1	78.5	35.2	2.0	0	4.0
<b>LA95135</b>	<b>47.1</b>	<b>49</b>	<b>56.6</b>	<b>82.5</b>	<b>38.4</b>	<b>3.3</b>	<b>0</b>	<b>4.0</b>
LA04026D-7	46.5	51	57.8	76.5	37.0	4.3	0	4.0
ARX1107	46.2	53	53.7	87.5	40.0	2.8	83	4.5
EXP32114	45.8	55	53.7	90.0	39.0	4.5	31	4.0
DIXIE EXP 1112	45.5	56	53.0	90.0	39.8	3.8	29	4.5
EPX32112	42.4	58	50.8	86.5	39.6	2.3	0	4.0
LA04110D-7	41.9	59	58.3	75.0	39.4	3.0	0	3.5
PROGENY PGX 11-14	41.7	60	53.5	91.5	39.8	2.5	35	4.0
<b>DELTA GROW 7300</b>	<b>41.5</b>	<b>61</b>	<b>50.0</b>	<b>91.5</b>	<b>33.9</b>	<b>2.3</b>	<b>3</b>	<b>4.5</b>
LA02015E58	40.5	62	58.1	74.5	40.2	1.8	0	3.0
LA03045E-4	38.2	65	56.0	73.5	36.8	1.5	0	4.0
LA02015E201	36.3	69	57.9	74.5	38.2	2.0	0	4.0
<b>Mean</b>	<b>51.3</b>		<b>55.7</b>	<b>83.7</b>	<b>36.9</b>	<b>2.0</b>	<b>5</b>	<b>4.1</b>
<b>CV%</b>	<b>15</b>		<b>2</b>	<b>3</b>	<b>6</b>	<b>88</b>	<b>214</b>	<b>11</b>
<b>LSD</b>	<b>8.8</b>		<b>1.5</b>	<b>4.8</b>	<b>3.7</b>	<b>2.0</b>	<b>19</b>	<b>0.7</b>
<b>Data from Northeast Research Station, St. Joseph, LA. Rick Mascagni, Tafi Brown, Boyd Padgett, and Myra Purvis.</b>								
<b>Cultural and Site:</b> Planted 11-8-2011, harvested 5-17-2012. 0.75 oz/a Harmony Extra on 2-23-12; 16 oz/a Axial on 2-17-12. 100# N as 30-0-0-2 on 1-5-12.								
<b>Bold 'Brand/variety' indicates the entry is commercially available, others are non-released breeding lines.</b>								
<b>Lodging: 0 = none, 9 = severe.</b>								
<b>Phenotype</b> is visual appeal: 0 = excellent, 9 = poor. Rated in mid March at about heading time.								



Table 5. Wheat performance trial at Winnsboro, LA for 2012.

Brand / variety	Grain Yield		Test	Head	Lod	Leaf	Leaf <sup>*1</sup>	Pheno	
	2012	rnk	2-Yr	Wt	day	score	Rust	Blotch	type
		bu/a		lbs/bu	of yr	0-9	%	0-9	0-9
USG 3120	77.8	3	79.5	59.8	77	0.0	0	1.5	3.8
PIONEER 26R87	76.9	5	77.7	59.1	79	0.0	0	2.5	4.3
PROGENY 870	75.8	8	76.6	55.6	90	0.0	13	4.0	5.0
AGS 2035	71.1	18	76.1	57.9	78	0.0	0	4.0	4.0
JAMESTOWN	74.8	13	75.6	60.0	77	0.0	0	4.5	4.3
AGS 2060	75.5	9	75.5	59.3	78	1.5	0	4.5	5.8
TERRAL TV8861	70.0	26	75.4	55.3	90	1.5	28	1.0	5.0
AGS 2056	78.5	2	74.6	56.8	90	0.0	13	1.0	5.0
TERRAL TV8848	75.0	12	74.1	54.6	89	0.0	26	1.0	5.0
PROGENY 125	77.6	4	73.6	55.0	77	1.0	0	4.0	4.0
TERRAL LA821	69.8	28	73.4	57.1	75	0.0	0	4.0	4.0
AGS 2026	67.9	39	73.3	56.6	78	2.0	0	2.5	4.0
DELTA GROW 7500	65.8	46	73.3	54.7	90	0.0	16	1.0	6.3
DIXIE MCALISTER	68.4	35	73.3	55.1	90	0.0	19	1.0	5.3
USG 3438	67.9	38	72.7	55.3	89	0.0	4	1.0	5.3
USG 3555	70.4	21	71.6	55.8	82	0.0	0	1.0	5.0
LA01110D-150	73.0	14	71.4	56.9	77	0.0	0	3.5	3.8
DYNA-GRO OGLETHORPE	63.0	52	70.7	55.5	78	0.8	0	2.5	3.5
USG 3201	75.2	10	70.1	59.2	89	0.0	21	1.0	5.3
TERRAL TV8535	68.0	37	70.1	55.6	90	0.0	5	1.0	5.3
AGS 2038	70.4	22	69.4	58.0	81	0.0	0	2.5	4.3
TERRAL LA841	68.0	36	69.0	56.0	77	0.8	0	4.5	4.3
DELTA GROW 5000	66.9	43	68.3	55.5	77	0.3	0	3.5	5.5
PIONEER 26R10	64.2	50	68.1	53.1	89	0.0	28	1.5	4.0
DIXIE KELSEY	70.0	27	67.7	58.0	87	0.0	42	1.0	5.3
TERRAL TV8525	64.0	51	67.6	56.4	87	0.3	59	2.0	4.8
DYNA-GRO BALDWIN	66.7	45	66.0	57.6	86	0.0	0	3.5	5.0
SYNGENTA COKER 9553	59.6	57	65.4	59.0	79	0.5	0	3.0	3.5
PROGENY 117	67.2	40	64.9	56.8	78	1.0	0	3.5	5.0
USG 3251	59.3	58	63.6	54.6	90	0.0	54	1.0	5.8
PROGENY 185	61.7	55	63.3	55.7	88	0.0	4	1.5	5.5
SYNGENTA MAGNOLIA	54.1	64	63.2	55.9	81	0.0	80	6.0	6.0
SYNGENTA ARCADIA	70.3	23	63.0	58.0	77	0.0	0	3.0	4.3
DELTA GROW 7900	62.5	54	62.9	59.2	87	0.5	28	3.0	5.8
TERRAL TV8626	51.9	65	60.0	50.3	90	0.3	63	1.0	4.8
PROGENY 357	40.8	69	59.4	48.3	90	0.8	58	1.5	5.5
PIONEER 26R61	55.1	63	58.4	58.1	80	0.0	0	4.0	4.8
AGS 2052	44.8	68	54.2	47.8	90	0.5	73	1.5	5.3
PIONEER 26R41	82.3	1		56.5	89	0.0	0	1.0	4.3
VA05W-151	76.8	6		56.6	84	1.3	0	1.5	4.8
LA04041D-85	76.3	7		57.5	76	0.0	0	3.0	3.8
ARX1133	75.2	11		56.8	90	0.0	2	1.0	6.0
EPX32112	72.7	15		50.0	v late	0.0	0	1.0	5.5
EXP32110	72.2	16		55.1	87	0.0	0	1.5	5.3
LA04110D-7	71.9	17		59.0	77	0.0	0	4.0	4.8
ARX1109	71.0	19		55.4	87	0.0	18	1.0	5.0
PIONEER 26R53	70.4	20		57.3	89	0.0	3	1.5	4.5
PROGENY PGX 11-8	70.3	24		57.0	86	0.0	14	2.0	5.3
EXP32114	70.1	25		52.7	87	0.3	46	1.0	4.8
DYNA-GRO 9171	69.7	29		55.0	89	0.0	18	1.0	5.5
SYNGENTA HARRISON	69.3	30		53.2	89	0.3	58	1.0	4.8
LA02015E201	69.1	31		58.3	71	0.5	0	5.0	4.0
LA02015E58	68.6	32		58.2	76	0.3	0	5.0	4.0
LA05130D-P5	68.6	33		58.6	78	0.0	0	3.0	3.8
LA02024E12	68.4	34		57.6	78	0.0	0	3.5	3.3
EXP32111	67.1	41		54.2	87	0.0	66	1.0	4.5



**Table 5. Wheat performance trial at Winnsboro, LA for 2012.**

Brand / variety	Grain Yield		Test Wt	Head day	Lod score	Leaf Rust	Leaf <sup>*1</sup> Blotch	Pheno type
	2012	rnk 2-Yr						
	bu/a		lbs/bu	of yr	0-9	%	0-9	0-9
<b>SYNGENTA HARRISON</b>	<b>69.3</b>	<b>30</b>	<b>53.2</b>	<b>89</b>	<b>0.3</b>	<b>58</b>	<b>1.0</b>	<b>4.8</b>
LA02015E201	69.1	31	58.3	71	0.5	0	5.0	4.0
LA02015E58	68.6	32	58.2	76	0.3	0	5.0	4.0
LA05130D-P5	68.6	33	58.6	78	0.0	0	3.0	3.8
LA02024E12	68.4	34	57.6	78	0.0	0	3.5	3.3
EXP32111	67.1	41	54.2	87	0.0	66	1.0	4.5
<b>DELTA GROW 8600</b>	<b>67.0</b>	<b>42</b>	<b>55.9</b>	<b>90</b>	<b>0.0</b>	<b>44</b>	<b>1.0</b>	<b>5.8</b>
LA04026D-7	66.8	44	58.7	77	2.3	0	4.0	5.8
<b>LA95135</b>	<b>65.7</b>	<b>47</b>	<b>56.2</b>	<b>81</b>	<b>0.3</b>	<b>0</b>	<b>2.0</b>	<b>4.3</b>
VA08W-294	65.6	48	56.4	81	0.0	0	3.0	4.3
DIXIE EXP 1112	64.4	49	51.8	86	1.3	69	1.0	5.3
ARX1107	62.6	53	53.1	88	0.0	58	1.5	5.5
<b>ARX RAMPAGE</b>	<b>60.5</b>	<b>56</b>	<b>51.7</b>	<b>83</b>	<b>0.3</b>	<b>29</b>	<b>1.5</b>	<b>4.0</b>
<b>USG 3562</b>	<b>59.1</b>	<b>59</b>	<b>56.0</b>	<b>90</b>	<b>0.0</b>	<b>51</b>	<b>1.0</b>	<b>4.5</b>
GA021245-9E16	58.6	60	56.4	74	1.3	0	5.0	5.5
<b>DELTA GROW 7300</b>	<b>55.9</b>	<b>61</b>	<b>50.3</b>	<b>90</b>	<b>0.0</b>	<b>42</b>	<b>1.0</b>	<b>5.0</b>
LA03045E-4	55.6	62	55.2	74	2.8	0	6.5	5.0
PROGENY PGX 11-14	51.4	66	51.1	87	1.0	83	1.0	5.0
<b>RICOCHET</b>	<b>45.7</b>	<b>67</b>	<b>53.7</b>	<b>90</b>	<b>0.0</b>	<b>1</b>	<b>1.0</b>	<b>5.5</b>
<b>Mean</b>	<b>66.8</b>		<b>55.8</b>	<b>83</b>	<b>0.3</b>	<b>18</b>	<b>2.3</b>	<b>4.8</b>
<b>CV%</b>	<b>12</b>		<b>3</b>	<b>1</b>	<b>244</b>	<b>112</b>	<b>44</b>	<b>20</b>
<b>LSD (0.10)</b>	<b>9.7</b>		<b>1.8</b>	<b>2</b>	<b>1.0</b>	<b>34</b>	<b>1.7</b>	<b>1.6</b>
<b>Data from Macon Ridge Research Stations, Winnsboro, LA. Rick Mascagni, Tafi Brown, Boyd Padgett, and Myra Purvis.</b>								
<b>Cultural and Site:</b> Planted 11-4-11. Harvested 5-10-12. 0.9 oz/a Harmony Extra on 11-30-11. 100 # N as 30-0-0-2 on 2-13-12. Good stands, Heavy rainfall: 7.5" in December and 10.9" in March. Warm, early spring.								
<b>*1</b> Leaf blotch is a combination of bacterial streak and septoria with saprophytes thrown in. Frost damage, severe rain storms and wind-whipping made caused significant leaf necrosis.								
<b>Bold</b> 'Brand/variety' indicates the entry is commercially available, others are non-released breeding lines.								



**Table 6. Wheat performance trial across Louisiana for two years, 2011 and 2012.**

	<b>Grain Yield</b>	<b>Test Wt</b>	<b>Head Day</b>	<b>Plant Ht</b>	<b>Lod Score</b>	<b>Stripe* Rust</b>	<b>Leaf Rust</b>	<b>Pheno type</b>
	<b>bu/acre</b>	<b>lbs/bu</b>	<b>of yr</b>	<b>in</b>	<b>0-9</b>	<b>%</b>	<b>%</b>	<b>0-9</b>
<b>USG 3120</b>	<b>77.8</b>	<b>59.1</b>	<b>80</b>	<b>36</b>	<b>1.0</b>	<b>4</b>	<b>0</b>	<b>3.5</b>
LA01110D-150	76.6	57.5	81	35	0.9	14	0	3.8
<b>AGS 2035</b>	<b>76.1</b>	<b>58.6</b>	<b>80</b>	<b>37</b>	<b>0.7</b>	<b>1</b>	<b>0</b>	<b>3.4</b>
GA001138-8E36	75.6	59.0	86	38	0.6	1	0	3.5
<b>JAMESTOWN</b>	<b>75.3</b>	<b>59.7</b>	<b>80</b>	<b>32</b>	<b>0.6</b>	<b>0</b>	<b>0</b>	<b>3.4</b>
<b>AGS 2060</b>	<b>72.1</b>	<b>59.9</b>	<b>82</b>	<b>37</b>	<b>1.4</b>	<b>2</b>	<b>0</b>	<b>3.7</b>
<b>DELTA GROW 7500</b>	<b>71.4</b>	<b>55.8</b>	<b>91</b>	<b>34</b>	<b>0.1</b>	<b>0</b>	<b>2</b>	<b>4.3</b>
<b>TERRAL LA841</b>	<b>71.4</b>	<b>56.6</b>	<b>81</b>	<b>34</b>	<b>1.4</b>	<b>0</b>	<b>0</b>	<b>3.6</b>
<b>PROGENY 870</b>	<b>71.3</b>	<b>55.8</b>	<b>92</b>	<b>33</b>	<b>0.4</b>	<b>0</b>	<b>2</b>	<b>4.2</b>
<b>DYNA-GRO OGLETHORPE</b>	<b>71.1</b>	<b>56.7</b>	<b>81</b>	<b>32</b>	<b>1.6</b>	<b>2</b>	<b>0</b>	<b>3.9</b>
<b>TERRAL TV8861</b>	<b>70.7</b>	<b>56.6</b>	<b>93</b>	<b>34</b>	<b>1.3</b>	<b>1</b>	<b>4</b>	<b>4.2</b>
<b>USG 3438</b>	<b>70.5</b>	<b>56.0</b>	<b>91</b>	<b>33</b>	<b>0.3</b>	<b>0</b>	<b>1</b>	<b>4.3</b>
<b>DIXIE MCALISTER</b>	<b>69.9</b>	<b>56.0</b>	<b>91</b>	<b>33</b>	<b>0.1</b>	<b>0</b>	<b>2</b>	<b>4.1</b>
<b>SYNGENTA ARCADIA</b>	<b>69.7</b>	<b>57.6</b>	<b>80</b>	<b>34</b>	<b>0.6</b>	<b>63</b>	<b>0</b>	<b>4.6</b>
<b>DIXIE KELSEY</b>	<b>69.3</b>	<b>58.7</b>	<b>91</b>	<b>33</b>	<b>0.6</b>	<b>0</b>	<b>7</b>	<b>4.8</b>
<b>TERRAL LA821</b>	<b>69.2</b>	<b>58.3</b>	<b>79</b>	<b>36</b>	<b>1.3</b>	<b>6</b>	<b>0</b>	<b>3.9</b>
<b>PIONEER 26R10</b>	<b>69.1</b>	<b>56.3</b>	<b>91</b>	<b>33</b>	<b>0.5</b>	<b>0</b>	<b>5</b>	<b>3.9</b>
<b>TERRAL TV8848</b>	<b>68.9</b>	<b>56.6</b>	<b>92</b>	<b>34</b>	<b>0.9</b>	<b>0</b>	<b>3</b>	<b>4.3</b>
<b>SYNGENTA COKER 9553</b>	<b>68.9</b>	<b>58.8</b>	<b>84</b>	<b>34</b>	<b>0.9</b>	<b>0</b>	<b>1</b>	<b>3.3</b>
<b>TERRAL TV8535</b>	<b>68.0</b>	<b>56.0</b>	<b>91</b>	<b>33</b>	<b>0.4</b>	<b>0</b>	<b>1</b>	<b>4.4</b>
<b>TERRAL TV8525</b>	<b>67.8</b>	<b>57.1</b>	<b>89</b>	<b>33</b>	<b>0.9</b>	<b>3</b>	<b>11</b>	<b>4.1</b>
<b>USG 3201</b>	<b>67.7</b>	<b>58.5</b>	<b>91</b>	<b>33</b>	<b>0.6</b>	<b>0</b>	<b>4</b>	<b>4.4</b>
<b>PROGENY 125</b>	<b>67.4</b>	<b>55.8</b>	<b>82</b>	<b>33</b>	<b>1.1</b>	<b>8</b>	<b>18</b>	<b>4.2</b>
<b>SYNGENTA MAGNOLIA</b>	<b>67.1</b>	<b>56.9</b>	<b>84</b>	<b>36</b>	<b>0.9</b>	<b>1</b>	<b>13</b>	<b>4.2</b>
<b>PIONEER 26R61</b>	<b>66.8</b>	<b>59.1</b>	<b>83</b>	<b>36</b>	<b>0.1</b>	<b>30</b>	<b>0</b>	<b>3.8</b>
<b>PROGENY 117</b>	<b>66.8</b>	<b>56.6</b>	<b>83</b>	<b>37</b>	<b>1.5</b>	<b>6</b>	<b>19</b>	<b>5.2</b>
<b>AGS 2026</b>	<b>66.3</b>	<b>57.5</b>	<b>81</b>	<b>34</b>	<b>2.3</b>	<b>1</b>	<b>1</b>	<b>3.8</b>
<b>DELTA GROW 5000</b>	<b>66.0</b>	<b>56.2</b>	<b>82</b>	<b>33</b>	<b>0.9</b>	<b>0</b>	<b>18</b>	<b>4.7</b>
<b>USG 3251</b>	<b>65.8</b>	<b>56.1</b>	<b>92</b>	<b>35</b>	<b>0.4</b>	<b>1</b>	<b>7</b>	<b>4.4</b>
<b>DELTA GROW 7900</b>	<b>61.4</b>	<b>58.1</b>	<b>89</b>	<b>35</b>	<b>2.1</b>	<b>12</b>	<b>12</b>	<b>5.2</b>
<b>MEAN</b>	<b>69.8</b>	<b>57.4</b>	<b>86</b>	<b>34</b>	<b>0.9</b>	<b>5</b>	<b>5</b>	<b>4.5</b>
<b>CV%</b>	<b>9</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>125</b>		<b>183</b>	<b>14</b>
<b>LSD (0.10)</b>	<b>5.0</b>	<b>1.0</b>	<b>2</b>	<b>1</b>	<b>0.8</b>		<b>8</b>	<b>0.6</b>

**Data from** 2011 at Ben Hur (Baton Rouge), Iberia (Jeanerette), Rice (Crowley), Dean Lee (Alexandria), Northeast (St. Joseph) and Macon Ridge (Winnsboro); and 2012 NE and MR Research Stations.

**Bold** 'Brand/variety' indicates the entry is commercially available, others are non-released breeding lines.



**Table 7. Wheat performance trial across Louisiana for three years, 2010, 2011 and 2012.**

	<b>Grain Yield</b>	<b>Test Wt</b>	<b>Head Day</b>	<b>Plant Ht</b>	<b>Lod Score</b>	<b>Stripe* Rust</b>	<b>Leaf Rust</b>	<b>Pheno type</b>
	<b>bu/acre</b>	<b>lbs/bu</b>	<b>of yr</b>	<b>in</b>	<b>0-9</b>	<b>%</b>	<b>%</b>	<b>0-9</b>
<b>USG 3120</b>	70.7	58.1	85	36	0.7	5	0	3.6
LA01110D-150	69.6	56.9	86	35	0.6	3	0	3.9
<b>JAMESTOWN</b>	69.2	58.7	85	32	0.4	1	0	3.4
<b>AGS 2035</b>	69.1	57.7	85	36	0.5	1	0	3.6
<b>TERRAL LA841</b>	65.8	56.1	86	33	1.0	1	0	3.8
<b>TERRAL TV8861</b>	65.7	56.3	96	33	0.9	0	4	4.3
<b>SYNGENTA COKER 9553</b>	65.3	58.1	89	35	0.7	0	1	3.5
<b>DYNA-GRO OGLETHORPE</b>	65.1	56.3	86	33	1.2	1	0	4.0
<b>USG 3438</b>	64.5	55.5	95	33	0.2	0	1	4.4
<b>AGS 2060</b>	64.5	59.2	87	37	1.0	8	0	3.9
<b>USG 3201</b>	63.9	57.7	95	32	0.5	0	4	4.5
<b>SYNGENTA ARCADIA</b>	63.5	57.5	85	34	0.4	14	0	4.5
<b>SYNGENTA MAGNOLIA</b>	63.2	56.6	89	36	0.6	2	13	4.0
<b>TERRAL LA821</b>	63.1	57.3	84	35	0.9	11	0	3.9
<b>PROGENY 125</b>	62.6	55.4	87	33	0.8	3	18	4.2
<b>DELTA GROW 5000</b>	62.1	55.5	87	33	0.6	1	18	4.6
<b>PROGENY 117</b>	62.0	56.1	87	36	1.1	12	19	5.2
<b>PIONEER 26R61</b>	61.2	58.3	88	35	0.1	6	0	4.0
<b>AGS 2026</b>	60.6	56.8	86	33	1.6	3	1	4.0
<b>MEAN</b>	64.8	57.1	88	34	0.7	4	4	4.1
<b>CV%</b>	10	2	1	5	148	120	124	15
<b>LSD (0.10)</b>	3.6	0.6	1	1	0.5	NS	8	0.5
<b>Data</b> from 2010 at Ben Hur (Baton Rouge), Rice (Crowley), Dean Lee (Alexandria), Red River (Bossier City), Northeast (St. Joseph) and Macon Ridge; 2011 at Ben Hur (Baton Rouge), Iberia (Jeanerette), Rice (Crowley), Dean Lee (Alexandria), Northeast (St. Jos								
<b>Bold</b> 'Brand/variety' indicates the entry is commercially available, others are non-released breeding lines.								
NS indicates non-significant differences among varieties								





**Table 8. Oat variety trial across Louisiana for 2012.**

Brand / variety	Grain Yield	Test Wt	Seed Quality	Wint Stress	Leaf iness	Head Day	Lod Score	Crown Rust
	bu/a	lbs/bu	0-9	0-9	0-9	of yr	0-9	%
<b>HORIZON 270</b>	<b>114.6</b>	<b>33.9</b>	<b>5.7</b>	<b>4.0</b>	<b>5.0</b>	<b>90</b>	<b>2.0</b>	<b>0</b>
LA05011GSBS-30	89.3	31.5	6.0	3.0	2.5	95	4.3	1
LA06012SBS-2	87.5	32.0	6.7	4.0	3.5	86	2.7	0
<b>LA99016</b>	<b>86.7</b>	<b>34.8</b>	<b>5.7</b>	<b>3.0</b>	<b>2.0</b>	<b>93</b>	<b>3.0</b>	<b>0</b>
<b>LA99017</b>	<b>85.8</b>	<b>33.7</b>	<b>5.3</b>	<b>3.5</b>	<b>3.0</b>	<b>94</b>	<b>3.7</b>	<b>2</b>
<b>Horizon 201</b>	<b>85.5</b>	<b>31.9</b>	<b>5.7</b>	<b>4.0</b>	<b>4.0</b>	<b>90</b>	<b>6.0</b>	<b>1</b>
TX05CS542	80.6	30.2	7.0	3.0	2.5	79	4.7	2
<b>TAMO 411</b>	<b>79.4</b>	<b>30.9</b>	<b>6.3</b>	<b>3.5</b>	<b>2.5</b>	<b>89</b>	<b>2.2</b>	<b>6</b>
TX09CS1112	78.8	27.4	6.3	3.0	3.5	89	1.2	8
LA02065SBSBSBSB-88	78.8	34.2	6.3	3.0	2.5	89	4.0	1
TX09CS1056	76.3	30.9	6.3	3.0	3.0	88	0.5	0
FL060107-N3	76.2	30.7	7.3	3.5	2.5	79	4.5	8
LA05006GSBSB-97	73.9	31.6	7.0	3.5	3.0	85	2.5	5
<b>TAMO 406</b>	<b>73.3</b>	<b>32.9</b>	<b>6.7</b>	<b>3.0</b>	<b>3.0</b>	<b>90</b>	<b>6.8</b>	<b>9</b>
LA04004SBSB-7-B-S1	69.0	34.1	6.0	4.0	4.5	89	5.7	2
LA06059SBSBSB-46	68.2	33.2	6.0	3.5	2.0	84	4.3	1
FL0560-L7	65.8	30.2	5.3	6.5	5.0	77	8.0	0
FL06050-N2	65.7	27.9	7.7	3.0	3.5	93	7.7	8
FL05670L1	61.4	32.6	6.7	5.0	4.5	76	6.5	24
TX09CS1072	59.9	29.4	7.3	4.0	3.5	89	2.5	10
<b>LA9339</b>	<b>50.7</b>	<b>28.3</b>	<b>7.0</b>	<b>3.0</b>	<b>3.0</b>	<b>94</b>	<b>1.3</b>	<b>32</b>
<b>FL02011 NUDA</b>	<b>43.4</b>	<b>41.7</b>	<b>5.0</b>	<b>5.5</b>	<b>4.0</b>	<b>89</b>	<b>2.5</b>	<b>1</b>
<b>BROOKS</b>	<b>25.9</b>	<b>26.1</b>	<b>9.0</b>	<b>3.5</b>	<b>4.5</b>	<b>91</b>	<b>8.2</b>	<b>90</b>
<b>TX02D079</b>	<b>25.3</b>	<b>11.5</b>	<b>6.7</b>	<b>2.5</b>	<b>2.5</b>	<b>95</b>	<b>4.0</b>	<b>35</b>
<b>Mean</b>	<b>70.8</b>	<b>31.1</b>	<b>6.5</b>	<b>3.6</b>	<b>3.3</b>	<b>88</b>	<b>4.1</b>	<b>10</b>
<b>CV%</b>	<b>17</b>	<b>3</b>				<b>2</b>	<b>35</b>	<b>66</b>
<b>LSD (0.10)</b>	<b>30.8</b>	<b>5.8</b>				<b>2</b>	<b>2.5</b>	<b>20</b>
<b>Data from Baton Rouge and Winnsboro for 2012.</b>								
<b>Bold indicates a released (commercial) variety, others are non-released breeding lines.</b>								
<b>Lodging and Stem Rust: 0 = none, 9 = severe.</b>								
<b>Seed Quality: 0 = excellent, 9 = very poor.</b>								
<b>Winter Stress: 0 = none, healthy &amp; green; 9 = severe discoloration and stress.</b>								
<b>Growth Habit: 0 - very upright spring habit; 9 = prostrate winter growth habit.</b>								
<b>Leafiness: visual estimate of leaf (forage) production: 0 = excellent, 9 = very poor.</b>								
<b>Phenotype is a relative 'visual appeal' rating that takes into account plant vigor, diseases, etc. 0 = best.</b>								



**Table 9. Oat variety trial across Louisiana for two years, 2011 and 2012.**

Brand / variety	Grain Yield	Test Wt	Seed Quality	Wint Stress	Leaf iness	Head Day	Plant Ht	Lod Score	Crown Rust
	bu/a	lbs/bu	0-9	0-9	0-9	of yr	in	0-9	%
<b>HORIZON 270</b>	<b>114.0</b>	<b>33.0</b>	<b>5.7</b>	<b>4.0</b>	<b>5.4</b>	<b>89</b>	<b>47</b>	<b>1.5</b>	<b>0</b>
<b>Horizon 201</b>	<b>94.3</b>	<b>31.9</b>	<b>5.7</b>	<b>4.0</b>	<b>4.4</b>	<b>90</b>	<b>51</b>	<b>4.8</b>	<b>1</b>
<b>LA99016</b>	<b>90.7</b>	<b>34.1</b>	<b>5.7</b>	<b>3.0</b>	<b>3.6</b>	<b>92</b>	<b>49</b>	<b>2.4</b>	<b>0</b>
<b>TAMO 406</b>	<b>81.7</b>	<b>33.4</b>	<b>6.7</b>	<b>3.0</b>	<b>4.6</b>	<b>90</b>	<b>47</b>	<b>5.1</b>	<b>9</b>
<b>TAMO 411</b>	<b>81.1</b>	<b>31.1</b>	<b>6.3</b>	<b>3.5</b>	<b>3.8</b>	<b>90</b>	<b>46</b>	<b>2.0</b>	<b>6</b>
<b>LA99017</b>	<b>81.1</b>	<b>32.8</b>	<b>5.3</b>	<b>3.5</b>	<b>4.6</b>	<b>94</b>	<b>50</b>	<b>2.8</b>	<b>2</b>
LA04004SBSB-7-B-S1	76.9	34.8	6.0	4.0	6.0	88	44	4.4	2
<b>PLOT SPIKE LA9339</b>	<b>53.7</b>	<b>29.1</b>	<b>7.0</b>	<b>3.0</b>	<b>3.4</b>	<b>95</b>	<b>53</b>	<b>1.1</b>	<b>32</b>
<b>BROOKS</b>	<b>50.9</b>	<b>28.1</b>	<b>9.0</b>	<b>3.5</b>	<b>4.2</b>	<b>90</b>	<b>53</b>	<b>6.9</b>	<b>90</b>
<b>FL02011NUDA</b>	<b>49.8</b>	<b>41.2</b>	<b>5.0</b>	<b>5.5</b>	<b>3.6</b>	<b>89</b>	<b>49</b>	<b>1.9</b>	<b>1</b>
<b>Mean</b>	<b>77.9</b>	<b>33.2</b>	<b>6.2</b>	<b>3.7</b>	<b>4.4</b>	<b>94.0</b>	<b>49</b>	<b>3.2</b>	<b>14.0</b>
<b>CV%</b>	<b>13</b>	<b>3</b>			<b>20</b>	<b>2</b>		<b>39</b>	<b>31</b>
<b>LSD (0.10)</b>	<b>21.4</b>	<b>2.9</b>			<b>NS</b>	<b>2</b>		<b>2.4</b>	<b>22</b>

Data from Baton Rouge and Winnsboro for 2012..

**Bold** indicates a released (commercial) variety, others are non-released breeding lines.

**Lodging:** 0 = none, 9 = severe.

**Seed Quality:** 0 = excellent, 9 = very poor.

**Winter Stress:** 0 = none, healthy & green; 9 = severe discoloration and stress.

**Leafiness:** visual estimate of leaf (forage) production: 0 = excellent, 9 = very poor.

NS indicates non-significant differences among varieties.



**Table 10. Oat variety trial across Louisiana for three years, 2010, 2011 and 2012.**

Brand / variety	Grain		Seed	Wint	Leaf	Head	Plant	Lod	Crown	Stem
	Yield	Test Wt	Quality	Stress	iness	Day	Ht	Score	Rust	Rust
	bu/a	lbs/bu	0-9	0-9	0-9	of yr	in	0-9	%	0-9
<b>HORIZON 270</b>	85.4	31.1	5.7	3.9	5.4	95	38	1.4	0	2.5
<b>Horizon 201</b>	80.0	30.7	5.7	3.0	4.4	95	41	4.9	1	1.0
<b>LA99016</b>	75.4	31.9	5.7	2.5	3.6	97	42	2.2	0	2.0
<b>TX05CS347-1</b>	71.8	30.7	6.3	3.0	3.8	98	38	1.8	6	1.0
<b>LA99017</b>	70.4	31.1	5.3	2.6	4.6	99	42	2.4	2	2.0
<b>PLOT SPIKE LA9339</b>	60.0	30.2	7.0	2.4	3.4	100	43	1.1	32	1.0
<b>BROOKS</b>	51.9	27.2	9.0	2.4	4.2	97	42	6.8	90	2.0
<b>Mean</b>	70.8	30.5	6.4	2.8	4.2	97.0	41.0	2.9	19.0	1.6
<b>CV%</b>	15	3		16	19	3	6	43	19	
<b>LSD (0.10)</b>	14.9	2.0		NS	NS	2	2	1.4	27	
<b>Data</b> from Bossier City, Baton Rouge, and Winnsboro for 2010; Baton Rouge for 2011; and Baton Rouge and Winnsboro for 2012.										
<b>Bold</b> indicates a released (commercial) variety, others are non-released breeding lines.										
<b>Lodging and Stem Rust:</b> 0 = none, 9 = severe.										
<b>Seed Quality:</b> 0 = excellent, 9 = very poor.										
<b>Winter Stress:</b> 0 = none, healthy & green; 9 = severe discoloration and stress.										
<b>Leafiness:</b> visual estimate of leaf (forage) production: 0 = excellent, 9 = very poor.										
NS indicates non-significant differences among varieties.										



**Table 11. Oat variety trial at Baton Rouge, LA in 2012.**

Brand / variety	Grain Yield	Test Weight	Seed Qual	Growth Habit	Winter Stress	Leaf iness	Head Day	Lod Score	Crown Rust	Pheno type
	bu/a	lbs/bu	0-9	0-9	0-9	0-9	of yr	0-9	%	0-9
<b>HORIZON 270</b>	<b>82.8</b>	<b>31.0</b>	<b>5.7</b>	<b>4.5</b>	<b>4.0</b>	<b>5.0</b>	<b>90.0</b>	<b>1.0</b>	<b>0</b>	<b>3.1</b>
LA06012SBS-2	71.8	29.1	6.7	6.0	4.0	3.5	84.0	2.7	0	4.3
TX05CS542	70.0	27.0	7.0	7.0	3.0	2.5	78.0	4.0	4	4.3
LA06059SBSBSB-46	68.8	31.0	6.0	8.0	3.5	2.0	83.0	1.7	1	4.6
LA02065SBSBSBSB-88	64.9	32.1	6.3	7.0	3.0	2.5	87.7	3.7	1	4.6
<b>HORIZON 201</b>	<b>64.7</b>	<b>29.6</b>	<b>5.7</b>	<b>6.0</b>	<b>4.0</b>	<b>4.0</b>	<b>90.7</b>	<b>5.0</b>	<b>1</b>	<b>4.6</b>
<b>LA99016</b>	<b>63.7</b>	<b>32.5</b>	<b>5.7</b>	<b>7.0</b>	<b>3.0</b>	<b>2.0</b>	<b>93.7</b>	<b>3.3</b>	<b>0</b>	<b>3.9</b>
<b>LA99017</b>	<b>63.3</b>	<b>31.6</b>	<b>5.3</b>	<b>7.5</b>	<b>3.5</b>	<b>3.0</b>	<b>93.7</b>	<b>3.0</b>	<b>2</b>	<b>4.5</b>
LA04004SBSB-7-B-S1	60.6	32.4	6.0	8.0	4.0	4.5	89.3	4.0	3	3.9
TX09CS1056	59.2	27.5	6.3	6.5	3.0	3.0	87.0	0.7	0	5.4
TX09CS1112	58.5	24.5	6.3	6.0	3.0	3.5	88.7	1.3	13	4.8
FL0560-L7	53.3	27.4	5.3	1.5	6.5	5.0	77.0	8.0	1	5.4
<b>TAMO 411</b>	<b>48.7</b>	<b>26.1</b>	<b>6.3</b>	<b>7.0</b>	<b>3.5</b>	<b>2.5</b>	<b>89.7</b>	<b>2.7</b>	<b>10</b>	<b>4.2</b>
FL060107-N3	47.9	26.7	7.3	4.0	3.5	2.5	77.7	4.7	13	5.1
LA05011GSBS-30	47.5	28.8	6.0	8.0	3.0	2.5	95.0	4.3	2	3.9
LA05006GSBSB-97	46.4	28.5	7.0	4.5	3.5	3.0	83.3	3.0	9	5.2
FL05670L1	40.6	29.2	6.7	3.0	5.0	4.5	75.3	6.7	40	6.3
<b>TAMO 406</b>	<b>33.9</b>	<b>29.2</b>	<b>6.7</b>	<b>6.0</b>	<b>3.0</b>	<b>3.0</b>	<b>89.3</b>	<b>6.7</b>	<b>15</b>	<b>5.1</b>
<b>FL02011 NUDA</b>	<b>28.7</b>	<b>38.7</b>	<b>5.0</b>	<b>2.0</b>	<b>5.5</b>	<b>4.0</b>	<b>89.3</b>	<b>5.0</b>	<b>1</b>	<b>5.7</b>
TX09CS1072	22.9	25.4	7.3	5.5	4.0	3.5	89.0	3.7	15	5.5
FL06050-N2	16.0	22.8	7.7	5.5	3.0	3.5	94.7	7.3	13	5.8
<b>LA9339</b>	<b>11.9</b>	<b>22.2</b>	<b>7.0</b>	<b>6.0</b>	<b>3.0</b>	<b>3.0</b>	<b>95.3</b>	<b>2.3</b>	<b>53</b>	<b>6.0</b>
TX02D079	0.9		6.7	6.5	2.5	2.5			58	8.1
<b>BROOKS</b>	<b>0.8</b>		<b>9.0</b>	<b>5.0</b>	<b>3.5</b>	<b>4.5</b>		<b>8.5</b>	<b>100</b>	<b>8.3</b>
<b>Mean</b>	<b>46.8</b>	<b>28.8</b>	<b>6.5</b>	<b>5.8</b>	<b>3.6</b>	<b>3.3</b>	<b>87.3</b>	<b>4.0</b>	<b>15</b>	<b>5.1</b>
<b>CV%</b>	<b>24</b>	<b>5</b>	<b>15</b>	<b>17</b>	<b>14</b>	<b>30</b>	<b>2</b>	<b>33</b>	<b>56</b>	<b>13</b>
<b>LSD(0.05)</b>	<b>18.5</b>	<b>2.1</b>	<b>1.6</b>	<b>2.0</b>	<b>1.1</b>	<b>2.1</b>	<b>2.8</b>	<b>2.2</b>	<b>14</b>	<b>1.1</b>
<b>Data from Ben Hur Research Farm. Baton Rouge, LA. S. Harrison, K. Arceneaux, L. Bissett, and K. McCarthy.</b>										
<b>Cultural and Site:</b> Planted: 11-22-11. 0.50 oz/acre Amber herbicide. 80-0-0 topdress N.										
<b>Bold</b> indicates a released (commercial) variety, others are non-released breeding lines.										
<b>Lodging:</b> 0 = none, 9 = severe. Storm-related lodging was severe at this location.										
<b>Growth Habit:</b> 0 = very upright spring habit; 9 = prostrate winter growth habit.										
<b>Seed Quality:</b> 0 = excellent, 9 = very poor.										
<b>Winter Stress:</b> 0 = none, healthy & green; 9 = severe discoloration and stress.										
<b>Leafiness:</b> visual estimate of leaf (forage) production: 0 = excellent, 9 = very poor.										
<b>Phenotype</b> is a relative 'visual appeal' rating that takes into account plant vigor, diseases, etc. 0 = best.										



**Table 12. Oat variety trial at Winnsboro, LA in 2012.**

Brand / variety	Grain Yield bu/a	Test Weight lbs/bu	Head Day of yr	Lod Score 0-9	Crown Rust %	Pheno type 0-9
<b>HORIZON 270</b>	<b>146.4</b>	<b>36.7</b>	<b>89</b>	<b>3.0</b>	<b>0.0</b>	<b>3.0</b>
FL06050-N2	140.2	32.9	91	8.0	0.0	4.5
LA05011GSBS-30	131.0	34.3	95	4.3	0.0	4.5
<b>TAMO 406</b>	<b>112.7</b>	<b>36.6</b>	<b>91</b>	<b>7.0</b>	<b>0.0</b>	<b>3.0</b>
<b>TAMO 411</b>	<b>110.1</b>	<b>35.7</b>	<b>89</b>	<b>1.7</b>	<b>0.0</b>	<b>4.0</b>
<b>LA99016</b>	<b>109.8</b>	<b>37.1</b>	<b>92</b>	<b>2.7</b>	<b>0.0</b>	<b>4.0</b>
<b>Horizon 201</b>	<b>106.3</b>	<b>34.3</b>	<b>89</b>	<b>7.0</b>	<b>0.0</b>	<b>4.5</b>
FL060107-N3	104.5	34.6	79	4.3	0.0	5.5
LA06012SBS-2	103.2	35.0	87	2.7	0.0	3.5
LA05006GSBSB-97	101.5	36.4	86	2.0	0.0	4.5
<b>LA99017</b>	<b>100.8</b>	<b>35.9</b>	<b>94</b>	<b>4.3</b>	<b>2.5</b>	<b>4.0</b>
TX09CS1112	99.1	30.3	89	1.0	0.0	5.0
TX09CS1072	97.0	33.3	89	1.3	2.5	4.0
TX09CS1056	93.3	34.4	89	0.3	0.0	5.0
LA02065SBSBSB-88	92.6	36.2	90	4.3	0.0	4.0
TX05CS542	91.3	33.5	80	5.3	0.0	4.5
<b>LA9339</b>	<b>89.5</b>	<b>34.5</b>	<b>93</b>	<b>0.3</b>	<b>0.5</b>	<b>4.5</b>
FL05670L1	82.3	36.0	77	6.3	0.0	5.0
FL0560-L7	78.2	33.0	77	8.0	0.0	6.5
LA04004SBSB-7-B-S1	77.5	35.8	88	7.3	0.0	4.0
LA06059SBSBSB-46	67.6	35.3	85	7.0	0.0	4.5
<b>FL02011 NUDA</b>	<b>58.0</b>	<b>44.8</b>	<b>88</b>	<b>0.0</b>	<b>0.0</b>	<b>4.0</b>
<b>BROOKS</b>	<b>51.0</b>	<b>26.1</b>	<b>91</b>	<b>8.0</b>	<b>75.0</b>	<b>7.0</b>
TX02D079	49.8	28.8	95	4.0	0.0	7.0
<b>Mean</b>	<b>94.9</b>	<b>34.7</b>	<b>88</b>	<b>4.2</b>	<b>3.4</b>	<b>4.6</b>
<b>CV</b>	<b>13</b>	<b>2</b>	<b>1</b>	<b>36</b>	<b>30</b>	<b>17</b>
<b>LSD</b>	<b>21.0</b>	<b>1.4</b>	<b>2</b>	<b>2.5</b>	<b>2.1</b>	<b>1.7</b>
<b>Data</b> from Macon Ridge Research Stations, Winnsboro, LA. Rick Mascagni, Tafi Brown, Boyd Padgett, and Myra Purvis.						
<b>Cultural and Site:</b> Planted: 11-7-11. Harvested 5-21-2012. Harmony Extra applied 11-39-11. 70-0-0 topdress N.						
<b>Bold</b> indicates a released (commercial) variety, others are non-released breeding lines.						
Lodging: 0 = none, 9 = severe						

Appendix A. Entries in the 2012 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

<u>Brand</u>	<u>Line/Variety</u>	<u>Originating Agency</u>
<u>WHEAT</u>		
AGS	AGS 2026, 2035, 2052, 2056, 2060. ....	AGSouth Genetics P.O. Box 72246 Albany, GA 31721
ARMOR	ARX1107, ARX1109, ARX1133, ARX1175,..... Ricochet	Armor Seed P.O. Box 178 Fisher, AR 72429
Delta Grow	Delta Grow 5000, 7300, 7500, 7900, 8600 Exp.....	Delta Grow Seed 220 N W 2nd England, AR 72046
Dixie	Exp1112, Kelsey, McAlister .....	Cache River Valley Seed, LLC P.O. Box 10 Cash, AR 72421
Dyna-Gro	Baldwin, Oglethorpe, Dyna-Gro 9171.....	Dyna-Gro Seed 6221 Riverside Drive, Suite One Dublin, OH 43017
GA	All numbered GA/UGA lines.....	Georgia Agric. Experiment Stn. Crop & Soil Science - UGA 1109 Experiment St. Griffin, GA 30223
JGL	Exp 32110, 32111, 32112, 32113, VA05W-151.....	JGL, Inc. 3540 S. US 231 Greencastle, IN 46135
LA	All numbered LA lines,.....	Louisiana Agric. Experiment Stn. SPESS - LSU Baton Rouge, LA 70803
Pioneer	26R10, 26R61, 26R87, XW10T, XW10V.....	Pioneer Hi-Bred International, Inc. 700 Boulevard South, Suite 302 Huntsville, AL 35802
Progeny	Progeny 117, 125, 185, 357, 870, PGX 11-8,..... PGX 11-14	Progeny Ag Products 1529 Hwy. 193 South Wynne, AR 72396

Appendix A. Entries in the 2012 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

<u>Brand</u>	<u>Line/Variety</u>	<u>Originating Agency</u>
<u>WHEAT</u>		
R&M	LA95135.....	Ragan & Massey, Inc. 100 Ponchatoula Parkway Ponchatoula, LA 70454
Syngenta	Arcadia, B050154, Coker 9553, Magnolia, .....	Syngenta Seeds, Inc. 778 CR 680 Bay, AR 72411
Terral	LA821, LA841, TV8525, TV8535, TV8626, ....., TV8848, TV8861	Terral Seed, Inc. P.O. Box 826 Lake Providence, LA 71254
USG	USG 3120, 3201, 3251, 3438, 3555, 3562.....	UniSouth Genetics, Inc. 3205-C HWY 46 S Dickson, TN 37055
VA	Jamestown, VA08W-294.....	Virginia PI & State University EVAREC 2229 Menokin Road Warsaw, VA 22572

Appendix A. Entries in the 2012 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

<u>Brand</u>	<u>Line/Variety</u>	<u>Originating Agency</u>
<u>OATS</u>		
FL	All Numbered FL lines.....	North Florida Res. & Education Center 155 Research Road Quincy, FL 32351
LA	All Numbered LA lines.....	Louisiana Agric. Experiment Station SPESS - LSU Baton Rouge, LA 70803
NC State	Brooks.....	North Carolina Agric. Expt. Station Crop Science Department North Carolina State University Raleigh, NC 27695
Plantation	Horizon 201, Horizon 270.....	Plantation Seed P.O. Box 398 Newton, GA 39870
Plot Spike	LA9339, LA 99016.....	Ragan & Massey, Inc. 100 Ponchatoula Parkway Ponchatoula, LA 70454
TAMO/TX	All numbered TAMO/TX lines.....	Texas AgriLife Research TAMU - Commerce Dept. of Ag Science Commerce, TX 75429