2016 SMALL GRAIN PERFORMANCE TRIALS

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LOUISIANA STATE UNIVERSITY AGRICULTURAL CENTER
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INTRODUCTION

Small grain variety trials are conducted annually by scientists of the Louisiana State University Agricultural Center Agricultural Experiment Station (LSUAC) to evaluate grain yield, agronomic performance, and disease reaction of varieties and advanced lines. The trials are conducted at seven LSUAC 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. The 2016 statewide wheat performance trials included 66 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 the following year if they show little potential, usually late-heading lines in south Louisiana. 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.

When choosing varieties, growers should consult their local extension 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 LSUAC 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 helps hedge against losing the entire crop to chance occurrences in weather or 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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1 Professor and variety trial coordinator, Research Associate, Research Associate, and Research Farm Assistant 2, respectively. SPESS Department, Baton Rouge.
2 Professor, and Research Associate, respectively, Northeast Research Station, St. Joseph.
3 Research Associate, Professor, Associate Professor, Associate Professor, and Research Associate, respectively. Rice Research Station, Crowley.
4 Associate Professor, Research Farm Assistant 1, and Research Associate, respectively. Red River Research Station, Bossier City.
5 Associate Professor, Regional Director, and Associate Professor, respectively. Dean Lee Research Station, Alexandria.
6 Assistant Professor and Research Associates, respectively. Macon Ridge Research Station, Winnsboro.
7 Professor and Research Associates. 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 (α=0.10) is the level of difference in a trait (like yield) 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" in the test, 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.

Traits and Rating Scales for LAES Wheat and Oat Performance Trials.		
Trait	**Abbreviation**	**Description**
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 stripe 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 2015-2016

The 2015-16 growing season was less than optimal, as was the previous year. A wet fall resulted in delayed planting at many locations. A very wet and warm winter resulted in waterlogged soils which reduced tillering and slowed plant growth. The warm winter also prevented adequate vernalization of some late-heading entries. Rainfall during flowering resulted in moderate Fusarium headblight (FHB) pressure throughout the state. The wet weather pattern extended into April and May leading to delayed harvest at some locations. FHB and weathering from heavy rainfall after maturity resulted in reduced yields and low test weights.

Bacterial streak (Xanthomonas) and Leaf blotch (predominately Septoria) were moderate throughout the trials. Leaf rust pressure was moderate to high, while stripe and stem rust pressures were low. Some locations experienced moderate lodging due to delayed harvest.

Results and Discussion

Performance of Wheat Varieties Across South Louisiana

South Region Means:

There were 50 variety and breeding line entries in South Louisiana trials in 2016. Winter rains led to waterlogged soils resulting in slower rates of growth and tillering. In addition, Fusarium head blight (FHB), delayed harvest, and late, partially vernalized entries also had a negative impact on test weight and yield. Heavy rainfall in April and May contributed to this as well. Early maturing entries tended to yield higher than later maturing varieties. The lines "LA01110D150-FTH" and LA01110D150-NT are add-ons to the trial that are breeder seed lots of LA754 that were Not Treated (NT) or treated with a recommended rate of Foothold plus Awaken (FTH) to evaluate the impact of that particular seed treatment.

The average yield (27.5 bu/acre) across Baton Rouge, Crowley, and Jeanerette was very low (Table 1). Test weights were low with an average of 52.4 lbs/bu. The top 14 entries all yielded above 40 bu/acre, well above the average, and had test weights above the mean. Three LA experimental lines, LA01110D-150-625, LA03200E-2, and LA01110D-150-241 and two varieties, AGS 2035 and AGS 2040, all had yields above 42.5 bu/acre and test weights greater than 54.2 lbs/bu.

There was a strong negative correlation between heading date and grain yield (r = -0.89**), that is, later entries had lower yields than earlier-heading entries. The top four yielding entries all headed at least 7 days earlier than the mean of 97 days. All fourteen entries with yields above 40 bu/acre headed at least 2 days before the mean, while the 19 entries with yields less than 15 bu/acre had heading dates at least six days later than the mean. Leaf rust pressure was high with a mean of 10% and a range of 0 to 51%. Three of the top five yielding entries had leaf rust ratings of 0%. Stem rust developed late and severity was low with a mean rating of 0.7 (0-9 scale).

Of the 21 entries tested across South Louisiana for two years, the LA experimental line LA01110D-150-625 had the highest yield (45.3 bu/acre) compared to the mean of 33.6 bu/acre (Table 2). Two other LA lines, LA03200E-2 and LA0111D-150-241, and the varieties AGS 2040 and AGS 2035 also had yields above 42.6 bu/acre. Test weights were low, with an average of 50.7 lbs/bu.

AGS 2035 (58.6 bu/acre) had the highest yield across south Louisiana for three years, followed by LA03200E-2 (57.9 bu/acre), Jamestown (56.6 bu/acre), and USG 3120 (56.4 bu/acre) compared to the mean of 52.6 bu/acre (Table 3). The top seven entries all had heading dates earlier than the mean of 91 days. There was significant variation among entries for leaf rust, stem rust, and FHB incidence.

Baton Rouge

Wet conditions delayed planting at Baton Rouge until December 18, well past optimal, which favored earlier-heading entries. Late planting combined with heavy winter rains reduced growth and tillering and resulted in low yields. Warm winter temperatures also prevented adequate vernalization of late entries and resulted in delayed harvest and poor yields and test weights. The variety AGS 2040 (66.0 bu/acre) had the highest yield at this location followed by LA03200E-2 (65.0 bu/acre), AGS 2035 (63.8

bu/acre), AGS 3000 (63.7 bu/acre), and LA01110D-150-625 (62.4 bu/acre), all well above the mean of 33.1 bu/acre (Table 4). These five entries also had test weights ranging from 55.7 lbs/bu to 54.2 bu/acre, compared to the mean of 53.0 lbs/bu.

Leaf rust pressure was light with a mean of 2% and ratings ranging from 0 to 8%. Lodging was severe due to heavy rainfall after maturity and delayed harvest with a range of 2.5 to 8.5 and a mean of 5.0. Heading day ranged from 90 to 114 with a mean of 100 days. Eighteen late entries did not completely head out because of inadequate vernalization and had yields ranging from 2.1 bu/acre to 19.9 bu/acre with 16 of these with yields too low to measure test weight.

By omitting the partially/non vernalized entries, a clearer analysis of the earlier entries was obtained (Table 5). Of 30 fully vernalized entries at Baton Rouge, yields ranged from 66.0 bu/acre to 23.6 bu/acre with a mean of 48.9 bu/acre.

Crowley

Planting was delayed in Crowley (November 30) and wet waterlogged soils inhibited early-season plant growth and tillering, and greatly reduced yields. At this location AGS 3000 had the highest yield (38.3 bu/acre), followed by USG 3120 (37.9 bu/acre), LA08095C-37 (35.8 bu/acre), Dyna-Gro Savoy (35.2 bu/acre), and AGS 2035 (35.0 bu/acre). The average yield was only 20.9 bu/acre (Table 6). The 19 lowest yielding entries had yields from 3.4 bu/acre down to 13.4 bu/acre. Test weights ranged from 50.7 lbs/bu to 58.4 lbs/bu with a mean of 55.1 lbs/bu.

Leaf rust pressure was moderately high with a mean of 7% and ranged from 0 to 44%. Fusarium head blight pressure was moderate with a mean of 0.6%. The top five yielding entries all had heading dates of 81 days or earlier. The 19 lowest yielding entries all had heading dates of 100 days or later and the correlation between heading date and yield was -0.93**.

Of twenty entries tested for two years, the variety, Dyna-Gro Savoy, and the experimental line GA-04434-12LE28 had the highest yields of 39.5 bu/acre compared to the mean of 30.2 bu/acre. The experimental lines LA01110D-150-625, LA03200E-2, and LA01110D-150-241 also had yields above 37.0 bu/acre.

Jeanerette

Yields were low at Jeanerette in 2016. The breeding line LA01110D-150-241 having the highest yield of 45.9 bu/acre followed by AR01040-4-1, LA01110D150-625, LA01110D150-NT, and LA01110D150-FTH, all with yields above 40 bu/acre, compared to the mean of 28.7 bu/acre (Table 7). Test weights ranged from 35.1 to 55.6 lbs/bu with a mean of 49.1 lbs/bu. The top five yielding entries all had test weights of 51.3 lbs/bu and above.

Leaf rust pressure was high (mean of 18%) with ratings ranging from 0 to 85%. Four of the top five yielding entries had leaf rust ratings of 0%. Stem rust pressure was low.

Jeanerette data from 2016 was analyzed with the 20 lowest yielding/non-vernalized entries dropped in order to minimize distortion (Table 8). This lowered the CV% and raised the mean a little but does not change the conclusion that it was a very difficult year for wheat production in south Louisiana.

Performance of Wheat Varieties Across North Louisiana

North Region Means:

The North Louisiana trials performed better than those in the South. Data included are from Alexandria, St. Joseph, and Winnsboro. Data from the trial at the Bossier City location was poor due to prolonged wet conditions prior to harvest. LA01110D-150-241 (66.4 bu/acre) had the highest yield of 66 entries tested across North Louisiana in 2016 (Table 9). PGX 15-12, Delta Grow 3500, VA12W-72, AGS 2055, and LA08090C-9-2 also all had yields above 60.0 bu/acre. The mean yield was 41.7 bu/acre. The top three yielding entries all had test weights above 55.0 lbs/bu compared to the test mean of 49.9 lbs/bu. Leaf rust pressure was high with ratings ranging from 0 to 64% and a mean of 14%. The entries with the highest leaf rust ratings generally had yields below average, which indicates that the disease was severe enough to reduce yield in susceptible varieties. Stripe rust pressure was relatively low, with a mean of 2%. The mean heading date was 97 days with the top 14 yielding entries heading earlier than the mean.

Delta Grow 3500 (60.3 bu/acre) had the highest yield of 37 entries tested over two years, (Table 10). LA01110D-150-241 (57.3 bu/acre), Hilliard (56.7 bu/acre), Pioneer 26R41 (55.9 bu/acre), and LA03200E-2 (55.3 bu/acre) all had yields well above the mean of 47.6 bu/acre. The top five entries all had test weights higher than the mean of 51.5 lbs/bu. The mean heading date was 97 days with 13 of the 14 lowest-yielding entries having heading dates of 100 days or later. There was a negative correlation between yield and heading date ($r = -0.42^{**}$), and leaf rust ($r = -0.74^{**}$) such that the higher-yielding entries generally had earlier heading dates and lower levels of leaf rust. Fusarium Headblight has been a major disease problem for the past two years. FHB ratings ranged from 1.3 to 5.1 and there were significant differences among varieties. It is difficult to evaluate entries for resistance to FHB because the disease is so dependent on heading date and rainfall timing which often results in late or early-heading entries escaping exposure to the disease. Comparisons of FHB ratings need to be made within a fairly narrow heading date range. FDK (percent Fusarium Damaged Kernels) ranged from 18% to 45%. LANC817-41-2, which has the lowest FDK, contains the gene Fhb1 which is known to reduced FHB incidence and FDK.

Pioneer 26R41 (68.1 bu/acre) had the highest yield of 20 entries over three years (Table 11). AGS 2038, Dyna-Gro 9171, and LA03200E-2 all had yields of 63.0 bu/acre or higher compared to the mean of 60.0 bu/acre. The mean heading date was 100 days with the top three yielding entries all heading later. Later-heading entries have yielded more in the prior two years whereas earlier-heading entries had higher yields in 2016, which enforces the notion that growers should plant a range of maturities in any given year. Yield was negatively correlated with leaf rust ($r = -0.56^{**}$).

Alexandria

Very wet winter conditions led to uneven stands among plots, which contributed to a high CV (percent unexplained variation). Early plots suffered significant bird damage at Alexandria which decreased harvested yields of the earliest plots. The mean yield was 35.9 bu/acre with the top seven entries having yields greater than 54.0 bu/acre (Table 12). Delta Grow 3500 (61.7 bu/acre) had the highest yield followed by VA12W-72 (56.4 bu/acre), Hilliard (56.3 bu/acre), LA08090C-9-2 (56.1 bu/acre), and LA03200E-2 (54.8

bu/acre). Test weights ranged from 36.6 lbs/bu (Dixie Extreme) to 58.8 lbs/bu (AGS 3000) with a mean of 51.8 bu/acre. Leaf rust pressure was high with a mean rating of 23% and a range of 0 to 91%. Varieties with a high leaf rust rating generally had low yields (correlation = -0.63**) as would be expected. While bacterial levels were low (mean = 0.3, 0-9 scale), there were significant differences among entries. Seed quality has a strong negative correlation with grain yield (r = -0.67**) indicating that varieties with poor yields also had low seed quality.

Bossier City

The wheat trial at Bossier City had weather-related problems across the growing season and harvest was delayed several weeks by continued rainfall. Data from the test at Bossier City was discarded due to very low yields and very high CV%.

St. Joseph

Yields at St. Joseph were better than at most sites, ranging from 7.4 bu/acre to 75.5 bu/acre with a mean of 44.5 bu/acre (Table 13). The experimental line PGX 15-12 (79.5 bu/acre) had the highest yield followed by LA01110D-150-241 (75.5 bu/acre), LA01110D150-FTH (Foothold plus Awaken) (66.2 bu/acre), LA01110D150-NT (no seed treatment) (65.8 bu/acre), and AGS 2055 (65.8 bu/acre). Test weights ranged from 37.1 lbs/bu (PGX 15-14) to 57.5 lbs/bu (PGX 15-12) with a mean of 49.8 lbs/bu. The six lowest yielding entries had yields too low to obtain test weights.

The top 23 yielding entries all headed out prior to the mean of 102 days. Lodging was moderate with a mean of 3.2 (0-9 scale). The seven lowest-yielding entries all had lodging ratings of 7.5 or above. Leaf rust pressure was moderate, with ratings ranging from 0 to 38% and a mean of 6%. The 12 highest-yielding entries all had leaf rust ratings of 0%. Stripe rust and Septoria pressure were also moderate with means of 3% and 2% respectively. Twenty-five entries had leaf rust ratings of 0%, and 44 had stripe rust ratings of 0%.

The experimental line, LA01110D-150-241 (61.5 bu/acre), had the highest yield of 37 entries at St. Joseph over two years. Delta Grow 3500 (57.6 bu/acre), Pioneer 26R41 (57.2 bu/acre), AGS 2055 (56.3 bu/acre), and AGS 2038 (56.2 bu/acre) all had yields well above the two-year mean of 47.1 (bu/acre). Four of the five had leaf rust ratings of 0%.

Winnsboro

Winnsboro had the highest mean yield (49.1 bu/acre) in the state for 2016 (Table 14). Delta Grow 3500 (74.9 bu/acre) had the highest yield, followed by LA01110D-150-241 (72.3 bu/acre), LA09011UB-2 and VA12W-72 (68.8 bu/acre), AGS 2038 (68.7 bu/acre), and AGS02024 (68.0 bu/acre), all with yields well above the mean of 49.1 bu/acre. Test weights were very low, probably due to post-maturity weathering. Test weights ranged from 37.0 lbs/bu to 56.8 lbs/bu with a mean of 48.4 lbs/bu. The top six yielding entries all had test weights of 51.0 lbs/bu or above.

Heading date ranged from 81 days to 107 days with a mean of 97 days. The top 10 yielding entries all headed out prior to 93 days. Lodging was minimal with a mean of 1.0 (0-9 scale). Leaf rust pressure was moderate (mean = 7%) with 12 of the top yielding entries having a rating of 0%. Stripe rust pressure was moderate with a mean of 1 (0-9

scale). Heavy spring rains resulted in widespread leaf blotch and bacterial streak with means of 2.1 and 0.3 (both 0-9 scale), respectively.

Seed quality (0 = excellent and 9 = very poor) was measured on seed samples by visual inspection in the lab. A low number (0-3) for seed quality rating indicates that the seed were plump, uniform and high quality with very little weathering or other blemishes. Seed Quality was very highly negatively correlated yield (r= -0.82**) and test weight (r= -0.92**). This indicates that those entries with poor yields also had very low quality seed from weathering and/or disease.

Delta Grow 3500 (66.4 bu/acre) had the highest yield of 37 entries over two years at Winnsboro followed by LANC8170-41-2, Syngenta SY Viper, and Hilliard, all with yields above 62.0 bu/acre compared to the mean of 51.0 bu/acre. These four entries all had leaf rust ratings of 5% or less.

Statewide Performance of Wheat Varieties

Of 55 entries tested across six locations, LA01110D-150-241 (54.5 bu/acre) had the highest yield followed by Delta Grow 3500 (51.7 bu/acre), LA01110D-150-625 (50.9 bu/acre) and LA03200E-2 (50.6 bu/acre). The average yield was 36.8 bu/acre (Table 15). Test weights ranged from 40.8 lbs/bu to 56.8 lbs/bu with a mean of 52.1 lbs/bu. The top four yielding entries all had test weights above 54.0 lbs/bu.

Phenotype was highly negatively correlated with yield (r= -0.86**) and test weight (r= -0.75**). Phenotype is a visual rating (0 = best, 9 = worst) of overall appearance of a variety rated several times during the spring. It gives an overall evaluation of how pretty and productive a plot appears over the season. The mean heading date was 96 days with 19 of the 20 highest-yielding entries heading before the mean. Leaf rust ratings ranged from 0 to 56% with a mean of 10%. Stem rust was much less severe statewide.

Delta Grow 3500 (50.5 bu/acre) had the highest yield statewide out of 21 entries for two years (Table 17). LA01110D-150-241 (50.5 bu/acre), LA03200E-2 (49.9 bu/acre), and LA01110D-150-625 (49.3 bu/acre) all outperformed the mean (42.8 bu/acre) by a wide margin. All four had test weights equal to or greater than 52.0 lbs/bu, heading dates earlier than 95 days and leaf rust ratings of 2% or less.

Performance of Oat Varieties

Baton Rouge

Yields were low in Baton Rouge due to prolonged duration of waterlogged soils in the winter followed by heavy rains after maturity. Of 25 entries, LA08085BS-T2 (104.4 bu/acre) had the highest yield followed by LA07007SBSBSB-18, LA06059SBSBSBSB-4-S, LA08085SS-T3, and Horizon 270 all with yields above 82.0 bu/acre (Table 17). The yield mean was 64.0 bu/acre.

The first four of these entries had test weights above 30.0 lbs/bu. LA08085BS-T2 (34.5 lbs/bu) had the highest test weight compared to the mean (26.9 lbs/bu). The wet, cool winter resulted in substantial winter stress (plant yellowing), with ratings ranging from 2.3 to 6.0 (0-9 scale) and a mean of 4.3. Crown rust and stem rust pressure were moderate with means of 10% and 1.6 (0-9 scale), respectively. Lodging was also severe due to heavy post-maturity rainfall and delayed harvest, with a mean of 6.7 (0-9 scale).

Winnsboro

Oat grain yields were higher at Winnsboro due to lower levels of winter stress and lodging. Horizon 270 (103.3 bu/acre) had the highest yield of 25 entries, followed by LA07007SBSBSB-18 (100.9 bu/acre), Horizon 306 (94.3 bu/acre), TX07CS2257 (91.7 bu/acre) and LA06059SBSBSBSB-4-S1 (90.0 bu/acre) compared to the mean of 78.4 bu/acre (Table 18). The 10 highest-yielding entries all yielded more than 85.0 bu/acre.

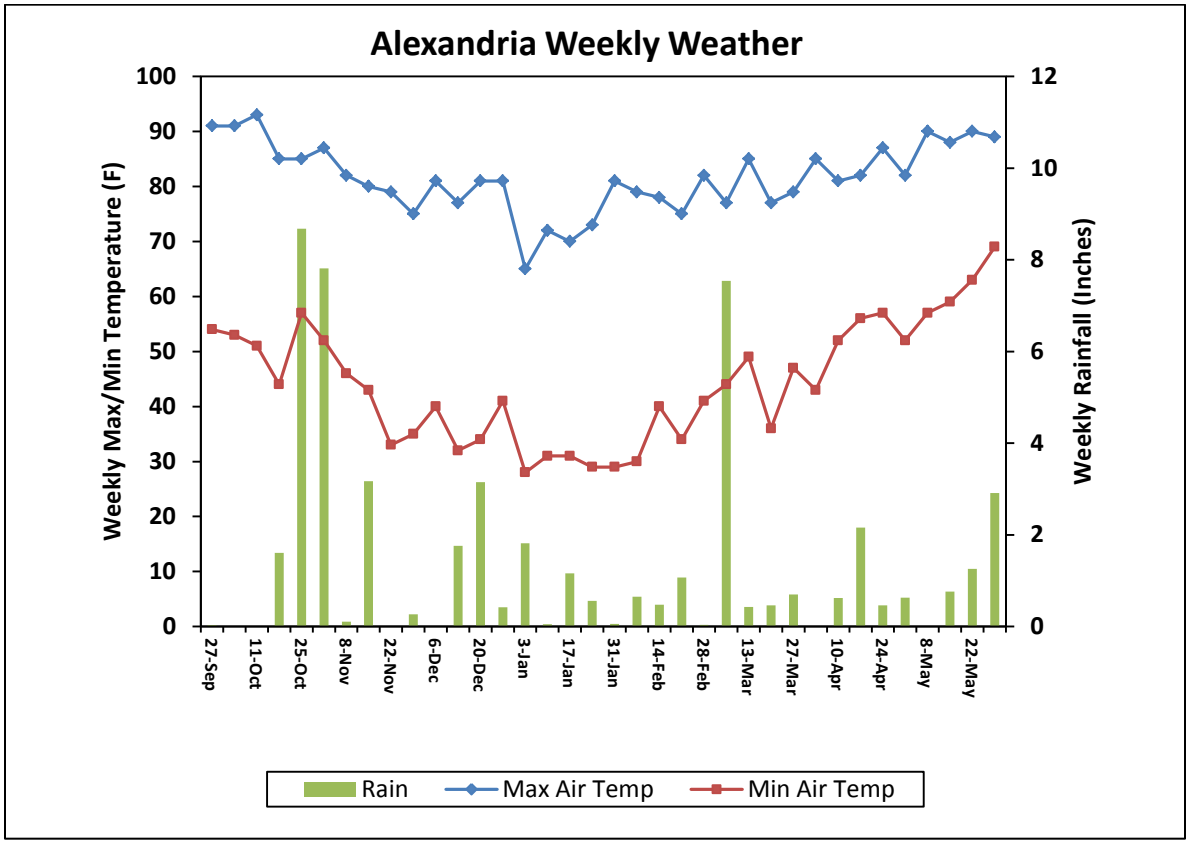
Winter stress tolerance was moderate (mean = 2.6) with the top three entries having ratings greater than the mean. Lodging was low to moderate with a mean of 2.5. Crown rust pressure was moderate and stem rust pressure was low with means of 6% and 0.7%, respectively.

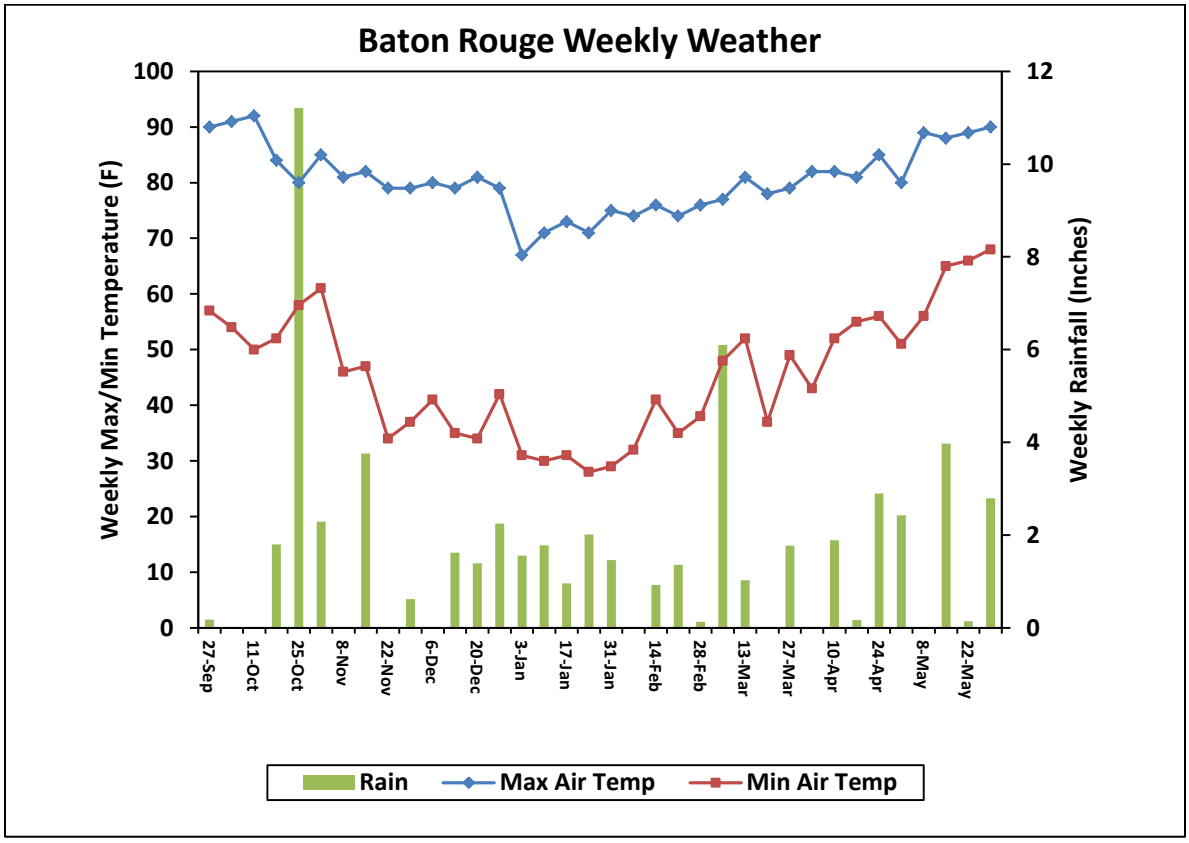
Performance of Oat Varieties Across Louisiana

LA07007SBSBSB-18 (95.4 bu/acre) had the highest yield across Louisiana in 2016 (Table 19). LA08085BS-T2 (92.2 bu/acre), Horizon 270 (89.4 bu/acre), LA06059SBSBSBSB-4-S1 (82.9 bu/acre), and TX07CS2257 (81.4 bu/acre) all had yields well above the mean (69.5 bu/acre) and test weights above the mean (28.3 lbs/bu). LA08085BS-T2 had the highest test weight (34.1 lbs/bu) and second-highest yield.

Horizon 270 (91.8 bu/acre) had the highest yield of 15 entries statewide over 3 years (Table 20). The entries LA07007SBSBSB-18 and LA08085SS-T3 also had yields above 83.0 bu/acre. The two LA entries had crown rust ratings of 0%. All three had stem rust ratings of 1.0 (0-9 scale) or less.

Figure 1. Rainfall and temperature graphs.





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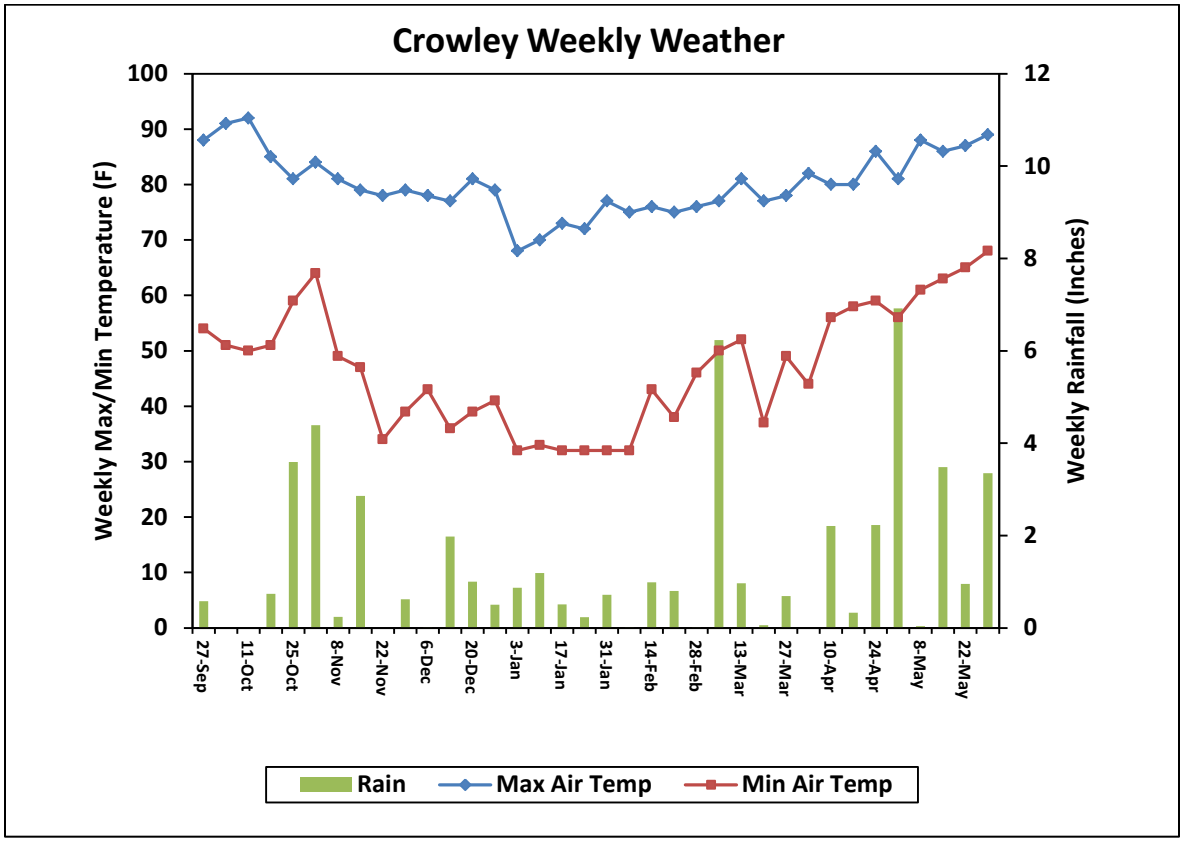

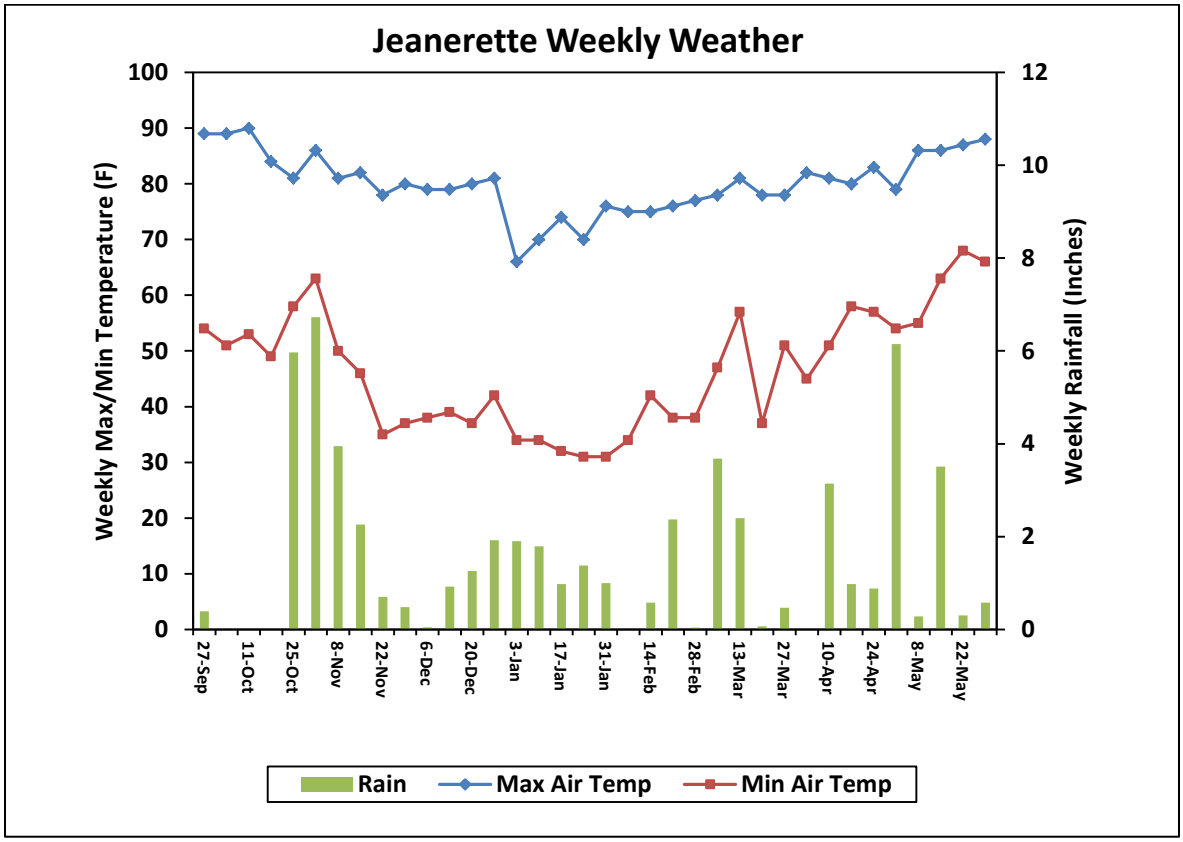

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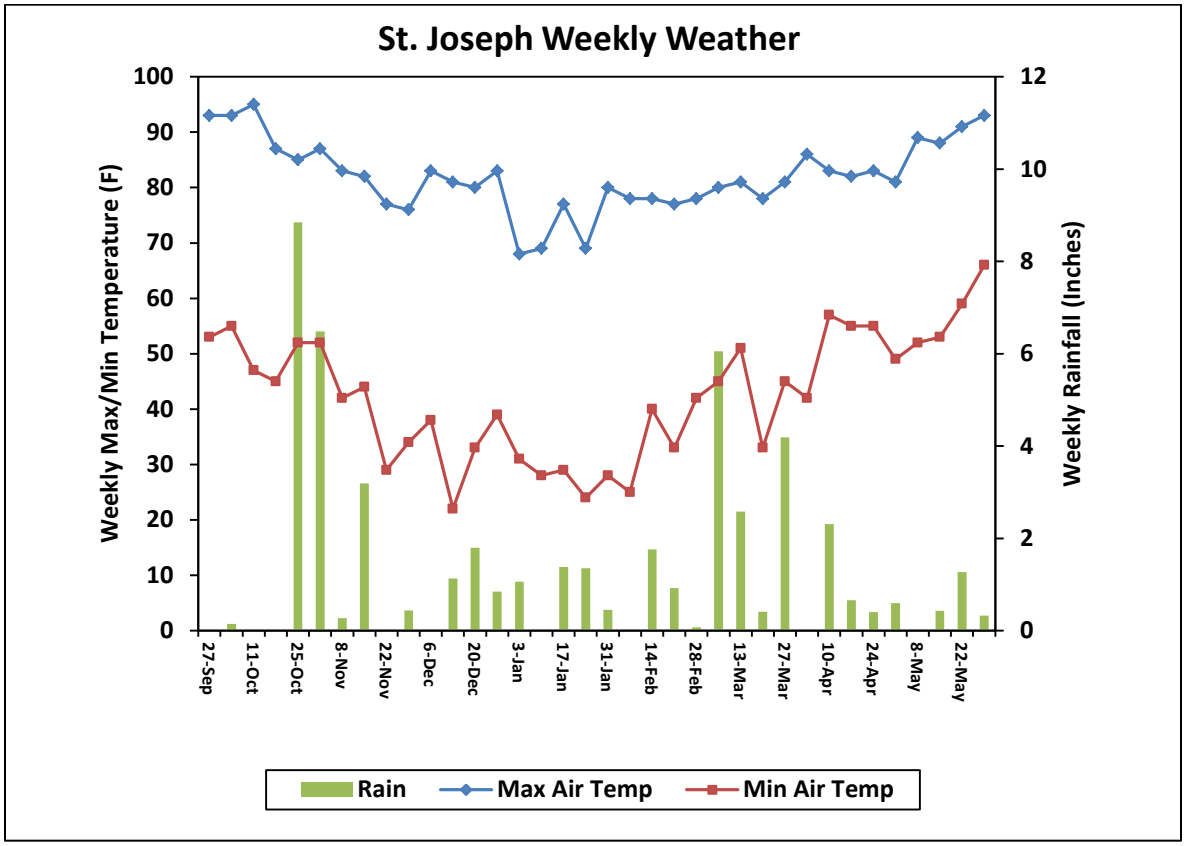

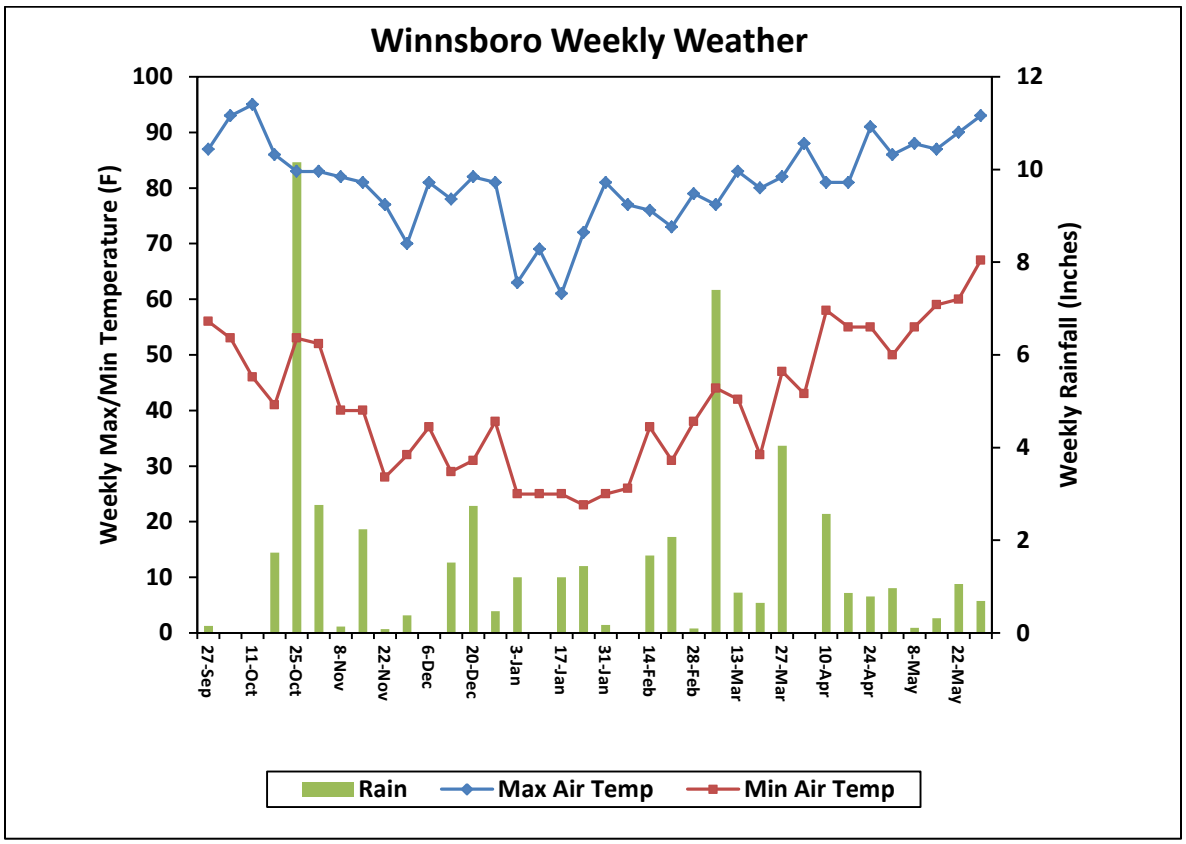

Table 1. Performance trial at South Louisiana for 2016.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lodging Score 0-9	Leaf Rust %	Stem Rust 0-9	Pheno type 0-9
LA01110D-150-625	45.8	55.6	90	33	4.8	1	0.0	4.6
AGS 2035	**45.7**	**54.7**	**86**	**33**	**3.8**	**0**	**0.2**	**4.3**
LA03200E-2	45.4	55.6	89	31	4.1	26	0.3	4.9
AGS 2040	**44.3**	**56.2**	**85**	**32**	**3.3**	**0**	**0.1**	**4.1**
LA01110D-150-241	42.6	54.3	95	34	3.4	0	0.6	4.1
JAMESTOWN	**42.5**	**56.5**	**87**	**30**	**3.1**	**2**	**0.0**	**4.0**
DYNA-GRO SAVOY	**42.0**	**54.3**	**86**	**31**	**3.6**	**0**	**0.0**	**4.3**
LA01110D150-NT	41.6	54.6	91	33	4.1	4	2.8	6.0
AGS 2024	**41.6**	**54.1**	**90**	**30**	**3.5**	**0**	**0.4**	**4.3**
AR01040-4-1	41.4	52.9	90	35	3.6	4	0.2	5.6
PIONEER 26R94	**41.0**	**54.2**	**89**	**34**	**4.4**	**0**	**0.0**	**3.9**
AGS 3000	**40.8**	**56.5**	**79**	**32**	**4.5**	**0**	**0.0**	**3.4**
DELTA GROW 3500	**40.5**	**54.2**	**93**	**32**	**4.6**	**0**	**0.0**	**3.4**
LA01110D150-FTH	40.5	54.4	92	33	3.9	3	1.8	6.0
AGS 2038	**39.1**	**53.5**	**92**	**35**	**4.0**	**1**	**0.1**	**4.4**
LA09011UB-2	39.1	54.9	95	29	4.5	2	0.1	4.6
USG 3120	**38.3**	**54.3**	**85**	**34**	**3.0**	**2**	**0.4**	**4.8**
GA061349-13LE31	36.2	53.1	96	31	2.1	0	0.0	3.6
LANC8170-41-2	35.9	54.8	96	31	2.3	8	0.1	5.3
VA12W-72	35.7	50.6	98	31	3.0	3	0.0	3.9
LA08095C-37	35.5	55.3	86	34	3.9	16	0.0	5.0
SY CYPRESS	**35.3**	**53.9**	**86**	**30**	**4.3**	**13**	**0.1**	**6.0**
GA051102-13LE43	34.6	52.9	98	32	3.3	0	0.0	4.3
LA08115C-30	33.0	53.3	86	32	3.9	4	3.4	7.0
GA-04434-12LE28	32.4	53.3	95	32	2.8	0	0.0	4.3
LA08090C-9-2	32.3	53.6	92	32	2.6	0	0.0	4.0
PGX 15-12	31.8	52.3	98	30	3.3	0	0.2	4.9
GA061349-13LE29	**30.8**	**50.3**	**101**	**31**	**3.8**	**0**	**0.0**	**4.4**
AGS 2055	**29.9**	**50.6**	**100**	**33**	**3.5**	**0**	**0.3**	**4.3**
HILLIARD	**24.1**	**50.5**	**101**	**32**	**3.0**	**3**	**0.0**	**5.0**
DELTA GROW 1000	**15.7**	**48.1**	**108**	**31**	**4.1**	**9**	**1.6**	**6.9**
PIONEER 26R41	**14.9**	**46.6**	**103**	**29**	**2.9**	**11**	**2.9**	**7.4**
PGX 15-10	14.1	46.5	110	31	3.9	7	1.1	6.9
ARMOR ARW1511	**12.9**	**46.3**	**109**	**32**	**4.3**	**6**	**0.9**	**6.6**
SY VIPER	**12.5**	**45.6**	**105**	**33**	**5.5**	**29**	**0.0**	**6.5**
DYNA-GRO WX 15781	12.2	46.6	109	32	4.1	8	1.0	6.9
PGX 15-16	12.0	44.2	110	26	4.3	5	0.2	6.9
DIXIE 16-1	**11.8**	**46.8**	**108**	**32**	**4.0**	**7**	**1.3**	**7.0**
PROGENY 243	**11.2**	**47.2**	**103**	**32**	**6.4**	**14**	**0.0**	**6.9**
DIXIE 16-2	**7.1**	**40.6**	**106**	**30**	**5.5**	**20**	**2.0**	**7.5**
PGX 15-14	6.5	41.3	104	29	5.9	34	2.1	7.3
ARMOR ARW1521	**6.4**	**50.7**	**109**	**29**	**4.5**	**24**	**1.0**	**7.0**
PROGENY 870	**5.5**	**49.4**	**106**	**29**	**4.9**	**13**	**1.1**	**6.6**
ARMOR ARW1516	**5.4**	**50.7**	**104**	**29**	**6.8**	**27**	**1.7**	**6.6**
ARMOR ARW1514	**5.3**	**37.2**	**104**	**28**	**7.4**	**31**	**2.3**	**7.8**
DYNA-GRO WX 16771	5.2	49.9	109	29	6.1	27	1.7	7.0
AGRIMAXX EXP 1674	4.8	40.1	107	28	7.3	30	2.6	7.3
DYNA-GRO 9642	**4.3**	**55.2**	**112**	**26**	**7.8**	**32**	**0.6**	**7.0**
USG 3013	**4.3**	**58.7**	**107**	**31**	**6.9**	**51**	**1.3**	**7.6**
PROGENY 357	**3.0**	**55.0**	**108**	**29**	**7.3**	**42**	**1.2**	**7.1**
Mean	**27.5**	**52.4**	**97**	**31**	**4.3**	**10**	**0.7**	**5.6**
CV	**20**	**4**	**2**	**45**	**29**	**90**	**154**	**11**
LSD (0.10)	**10.5**	**5.6**	**3**	**2**	**1.8**	**20**	**1.3**	**1.4**

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

Data from Baton Rouge, Crowley, and Jeanerette, LA.

Table 1. Performance trial at South Louisiana for 2016.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lodging Score 0-9	Leaf Rust %	Stem Rust 0-9	Pheno type 0-9

Correlations: There was a strong relationship between heading date and yield. Later heading lines yielded poorly. Correlation Yield,HeadDay = -0.89**; Corr Yld,Lfrust = -0.73**; Yield, Stem Rust = -0.50**, Yield. Phenotpye = -0.85** .

Table 2. Wheat performance trial across South Louisiana for two years, 2015 and 2016.

Brand / variety	Grain Yield bu/acre	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lodging Score 0-9	Leaf Rust %	Stem Rust 0-9	Fus H Blight 0-9	Pheno type 0-9
LA01110D-150-625	45.3	53.0	91	34	3.8	1	0.0	0.4	4.6
AGS 2040	**44.8**	**53.4**	**86**	**32**	**2.9**	**0**	**0.1**	**0.5**	**4.1**
AGS 2035	**43.8**	**52.1**	**88**	**34**	**2.9**	**0**	**0.2**	**1.2**	**4.3**
LA03200E-2	43.7	52.5	90	32	3.6	26	0.3	1.2	4.9
LA01110D-150-241	42.7	51.8	94	35	2.5	0	0.6	0.9	4.1
DYNA-GRO SAVOY	**41.9**	**51.2**	**86**	**31**	**4.3**	**0**	**0.0**	**2.8**	**4.3**
DELTA GROW 3500	**39.8**	**51.0**	**92**	**32**	**4.0**	**0**	**0.0**	**0.5**	**3.4**
JAMESTOWN	**39.4**	**52.4**	**88**	**30**	**3.5**	**2**	**0.0**	**0.5**	**4.0**
PIONEER 26R94	**38.0**	**51.4**	**89**	**35**	**3.7**	**0**	**0.0**	**0.8**	**3.9**
USG 3120	**37.6**	**51.0**	**86**	**34**	**2.9**	**1**	**0.4**	**1.5**	**4.8**
AGS 2038	**37.1**	**50.9**	**93**	**35**	**3.4**	**0**	**0.1**	**1.0**	**4.4**
AR01040-4-1	36.4	50.8	91	36	3.6	3	0.2	0.8	5.6
SY CYPRESS	**35.1**	**50.7**	**87**	**30**	**4.0**	**11**	**0.1**	**0.5**	**6.0**
GA-04434-12LE28	34.4	51.1	93	32	2.9	0	0.0	1.0	4.3
LANC8170-41-2	32.7	52.6	94	30	1.9	6	0.1	0.1	5.3
AGS 2055	**26.0**	**48.6**	**98**	**33**	**4.9**	**0**	**0.3**	**1.2**	**4.3**
HILLIARD	**23.3**	**48.0**	**99**	**32**	**3.1**	**3**	**0.0**	**0.3**	**5.0**
PIONEER 26R41	**20.1**	**46.0**	**102**	**30**	**2.6**	**9**	**2.9**	**0.0**	**7.4**
SY VIPER	**16.1**	**45.2**	**100**	**34**	**5.4**	**24**	**0.0**	**0.8**	**6.5**
USG 3013	**14.7**	**48.7**	**102**	**30**	**5.2**	**37**	**1.3**	**0.5**	**7.6**
PROGENY 870	**9.3**	**47.0**	**104**	**29**	**3.9**	**12**	**1.1**	**0.1**	**6.6**
MEAN	**33.6**	**50.7**	**92.8**	**32**	**3.6**	**6**	**0.3**	**0.8**	**5.0**
CV%	**18**	**5**	**2**	**5**	**36**	**128**	**244**	**136**	**14**
LSD (0.10)	**8.1**	**1.7**	**3.1**	**1**	**1.6**	**12**	**0.9**	**NS**	**1.3**

Data from 2015 and 2016 at the Rice Research Station (Crowley) and Iberia Research Station (Jeanerette), and from 2016 at Central Station (Baton Rouge).

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

Lodging 0 = none and 9 = severe.

Phenotype = visual appearance. 0 = excellent and 9 = ugly.

Correlaitons with Yield: TestWt = 0.90**, HeadDay = 0.90**, LeafRust = -0.55**, FHB = 0.42*, StemRust = -0.34*, PHE = -0.78**.

Table 3. Wheat performance trial across South Louisiana for three years, 2014, 2015 and 2016.

Brand / Variety	Grain Yield	Test Wt	Head Day	Plant Ht	Lodging Score	Leaf Rust	Stem Rust	Fus Hd. Blt	Pheno-type
	bu/acre	lbs/bu	of yr	in	0-9	%	0-9	0-9	0-9
AGS 2035	**58.6**	**55.1**	**88**	**35**	**2.3**	**0**	**0.2**	**2.1**	**4.1**
LA03200E-2	57.9	55.4	90	32	2.8	23	0.3	2.0	4.2
JAMESTOWN	**56.6**	**55.6**	**88**	**30**	**2.7**	**1**	**0.0**	**0.8**	**4.1**
USG 3120	**56.4**	**54.3**	**87**	**34**	**2.3**	**1**	**0.4**	**2.0**	**4.5**
DYNA-GRO SAVOY	**55.5**	**54.3**	**86**	**31**	**3.4**	**0**	**0.0**	**3.3**	**4.3**
AGS 2040	**55.3**	**56.0**	**86**	**32**	**2.2**	**0**	**0.1**	**0.9**	**3.9**
PIONEER 26R94	**54.7**	**54.9**	**89**	**35**	**2.9**	**0**	**0.0**	**1.8**	**4.1**
AGS 2038	**54.7**	**54.2**	**93**	**36**	**2.6**	**0**	**0.1**	**1.9**	**4.3**
SY CYPRESS	**51.7**	**54.1**	**88**	**31**	**3.1**	**10**	**0.1**	**0.9**	**5.6**
PIONEER 26R41	**42.7**	**52.0**	**101**	**30**	**2.1**	**8**	**2.9**	**0.6**	**6.1**
PROGENY 870	**34.5**	**51.9**	**102**	**30**	**3.0**	**13**	**1.1**	**0.6**	**5.9**
MEAN	**52.6**	**54.4**	**91**	**32**	**2.7**	**5**	**0.5**	**1.5**	**4.6**
CV%	**12**	**4**	**2**	**4**	**44**	**10**	**189**	**75**	**12**
LSD (0.10)	**7.5**	**1.4**	**2**	**1**	**NS**	**7**	**1.0**	**1.2**	**1.2**

Data from 2014, 2015 and 2016 at the Rice Research Station (Crowley) and Iberia Research Station (Jeanerette); and 2014 and 2016 at Central Station (Baton Rouge).

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

Lodging 0 = none and 9 = severe.

Phenotype = visual appearance. 0 = excellent and 9 = ugly.

Table 4. Wheat performance trial at Baton Rouge, LA for 2016.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lodging Score 0-9	Leaf Rust %	Pheno-type 0-9
AGS 2040	**66.0**	**55.7**	**92**	**32**	**4.3**	**0**	**3.8**
LA03200E-2	65.0	55.8	97	33	4.8	3	3.8
AGS 2035	**63.8**	**54.6**	**93**	**37**	**3.8**	**2**	**4.5**
AGS 3000	**63.7**	**57.0**	**90**	**34**	**5.5**	**0**	**3.8**
LA01110D-150-625	62.4	54.2	98	33	5.0	0	4.3
PIONEER 26R94	**62.0**	**55.7**	**98**	**36**	**4.0**	**0**	**3.8**
DYNA-GRO SAVOY	**60.0**	**53.4**	**91**	**32**	**4.5**	**0**	**4.5**
DELTA GROW 3500	**59.8**	**54.6**	**97**	**34**	**4.5**	**0**	**3.3**
JAMESTOWN	**57.4**	**56.3**	**94**	**31**	**4.0**	**0**	**3.5**
AGS 2024	**57.3**	**52.0**	**99**	**31**	**3.5**	**0**	**4.0**
LA01110D150-NT	56.8	52.6	101	34	4.5	2	4.5
LA01110D150-FTH	54.0	52.4	101	32	4.5	2	4.5
LA09011UB-2	53.0	55.2	99	30	4.5	1	5.3
LA01110D-150-241	50.1	51.8	101	35	3.5	0	4.3
LANC8170-41-2	48.7	53.9	104	32	2.8	1	5.0
AR01040-4-1	47.3	49.5	97	35	3.5	0	4.8
SYNGENTA SY CYPRESS	**46.8**	**53.1**	**97**	**32**	**5.0**	**3**	**5.5**
USG 3120	**46.7**	**53.2**	**95**	**34**	**3.8**	**1**	**5.0**
AGS 2038	**45.0**	**53.2**	**100**	**37**	**4.3**	**0**	**4.3**
VA12W-72	44.3	50.5	106	33	3.8	0	4.3
GA-04434-12LE28	42.8	51.4	100	35	3.0	1	4.5
LA08115C-30	41.2	50.5	95	31	4.8	6	6.0
LA08095C-37	39.8	53.8	100	35	4.8	4	5.0
GA061349-13LE31	39.5	53.1	103	33	2.5	0	4.3
AGS 2055	**39.2**	**49.9**	**107**	**35**	**4.0**	**0**	**4.0**
GA051102-13LE43	36.5	51.2	106	35	4.0	0	5.0
PGX 15-12	36.5	52.4	106	34	4.8	1	5.8
LA08090C-9-2	31.1	54.1	105	34	3.3	0	4.5
GA061349-13LE29	28.5	51.0	108	34	4.5	1	5.3
HILLIARD	**23.6**	**52.1**	**113**	**34**	**6.0**	**1**	**6.5**
PGX 15-10	19.9	49.2		34	4.0	2	6.8
ARMOR ARW1511	19.5	49.9		36	4.3	2	6.8
DYNA-GRO WX 15781	16.6	49.6		36	4.0	1	6.8
PGX 15-16	16.2			29	7.0	3	7.3
DELTA GROW 1000	**15.6**			**35**	**5.0**	**1**	**6.8**
PIONEER 26R41	**15.6**	**50.2**		**33**	**3.5**	**4**	**6.8**
DIXIE 16-1	**13.1**			**37**	**4.8**	**2**	**7.0**
SYNGENTA SY VIPER	**12.3**		**109**	**37**	**6.5**	**3**	**6.0**
DIXIE 16-2	**9.2**			**33**	**5.8**	**4**	**7.0**
ARMOR ARW1521	8.2			33	5.5	4	7.0
PGX 15-14	7.8			33	6.5	4	7.0
PROGENY 243	**7.4**			**33**	**8.3**	**6**	**7.3**
DYNA-GRO WX 16771	6.3			34	6.3	5	7.0
ARMOR ARW1516	5.1			32	7.8	5	6.8
ARMOR ARW1514	4.8			32	7.8	4	7.0
AGRIMAXX EXP 1674	4.7		114	34	6.8	3	6.5
USG 3013	**4.6**			**35**	**8.0**	**8**	**7.3**
DYNA-GRO 9642	**3.0**			**31**	**7.8**	**5**	**7.0**
PROGENY 870	**2.4**			**31**	**8.3**	**4**	**6.8**
PROGENY 357	**2.1**			**33**	**8.5**	**7**	**6.8**
Mean	**33.1**	**53.0**	**100**	**33**	**5.0**	**2**	**5.5**
CV	**18**	**2**	**2**	**5**	**22**	**67**	**9**
LSD (0.10)	**7.1**	**1.7**	**4**	**3**	**1.3**	**2**	**0.8**

Data from Ben Hur Research Farm, Central Station, Baton Rouge, LA. Steve Harrison, Kelly Arceneaux, Katie McCarthy, Ally Lunos.

Cultural and Site: Planted 12-18-15. Harvested 5-30-16. 13-23-48+10S Preplant; 30-0-0 Urea with Agrotain flew on in early Feb; 90-0-0 as 32% liquid ~Feb 20. Powerflex in Jan. The fall and winter were very wet with frequent saturated soils that reduced tillering and plant development. Heavy rainfall in April and early May resulted in premature leaf senescence of some varieties partly due to FHB and bacterial streak. The winter was much warner than normal and many entries failed to properly vernalize, resutling in very late heading and low yields and test weights. Harvest was delayed because so many entries were still green after the earlier entries were ready for combining.

Missing test weights and heading dates are for varieties that headed very late and had yields too low to determine test weight or grain moisture.

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

Table 5. Wheat performance trial at Baton Rouge, LA for 2016. Very late heading, non-adapted lines were dropped from this table.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lodging 0-9	Leaf Rust %	Pheno type 0-9
AGS 2040	**66.0**	**55.7**	**92**	**32**	**4.3**	**0**	**3.8**
LA03200E-2	65.0	55.8	97	33	4.8	3	3.8
AGS 2035	**63.8**	**54.6**	**93**	**37**	**3.8**	**2**	**4.5**
AGS 3000	**63.7**	**57.0**	**90**	**34**	**5.5**	**0**	**3.8**
LA01110D-150-625	62.4	54.2	98	33	5.0	0	4.3
PIONEER 26R94	**62.0**	**55.7**	**98**	**36**	**4.0**	**0**	**3.8**
DYNA-GRO SAVOY	**60.0**	**53.4**	**91**	**32**	**4.5**	**0**	**4.5**
DELTA GROW 3500	**59.8**	**54.6**	**97**	**34**	**4.5**	**0**	**3.3**
JAMESTOWN	**57.4**	**56.3**	**94**	**31**	**4.0**	**0**	**3.5**
AGS 2024	**57.3**	**52.0**	**99**	**31**	**3.5**	**0**	**4.0**
LA01110D150-NT	56.8	52.6	101	34	4.5	2	4.5
LA01110D150- FOOTHOLD	54.0	52.4	101	32	4.5	2	4.5
LA09011UB-2	53.0	55.2	99	30	4.5	1	5.3
LA01110D-150-241	50.1	51.8	101	35	3.5	0	4.3
LANC8170-41-2	48.7	53.9	104	32	2.8	1	5.0
AR01040-4-1	47.3	49.5	97	35	3.5	0	4.8
SYNGENTA SY CYPRESS	**46.8**	**53.1**	**97**	**32**	**5.0**	**3**	**5.5**
USG 3120	**46.7**	**53.2**	**95**	**34**	**3.8**	**1**	**5.0**
AGS 2038	**45.0**	**53.2**	**100**	**37**	**4.3**	**0**	**4.3**
VA12W-72	44.3	50.5	106	33	3.8	0	4.3
GA-04434-12LE28	42.8	51.4	100	35	3.0	1	4.5
LA08115C-30	41.2	50.5	95	31	4.8	6	6.0
LA08095C-37	39.8	53.8	100	35	4.8	4	5.0
GA061349-13LE31	39.5	53.1	103	33	2.5	0	4.3
AGS 2055	**39.2**	**49.9**	**107**	**35**	**4.0**	**0**	**4.0**
GA051102-13LE43	36.5	51.2	106	35	4.0	0	5.0
PGX 15-12	36.5	52.4	106	34	4.8	1	5.8
LA08090C-9-2	31.1	54.1	105	34	3.3	0	4.5
GA061349-13LE29	28.5	51.0	108	34	4.5	1	5.3
HILLIARD	**23.6**	**52.1**	**113**	**34**	**6.0**	**1**	**6.5**
Mean	**48.9**	**53.2**	**99**	**33**	**4.2**	**1**	**4.6**
CV	**14**	**2**	**2**	**5**	**26**	**177**	**11**
LSD	**8.1**	**1.5**	**4**	**3**	**1.3**	**2**	**0.9**

Data from Ben Hur Research Farm, Central Stations, Baton Rouge, LA. Steve Harrison, Kelly Arceneaux, Katie McCarthy, Ally Lunos.

Cultural and Site: Planted 12-18-15. Cultural and Site: Planted 12-18-15. Harvested 5-30-16. 13-23-48+10S Preplant; 30-0-0 Urea with Agrotain flew on in early Feb; 90-0-0 as 32% liquid ~Feb 20. Powerflex in Jan. The fall and winter were very wet with frequent saturated soils that reduced tillering and plant development. Heavy rainfall in April and early May resulted in premature leaf senescence of some varieties partly due to FHB and bacterial streak. The winter was much warmer than normal and many entries failed to properly vernalize, resutling in very late heading and low yields and test weights. Harvest was delayed because so many entries were still green after the earlier

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

Table 6. Wheat performance trial at Crowley, LA for 2016.

Brand / variety	Grain Yield 2016	Grain Yield 2-YR	Test Wt	Head Day	Plant Ht	Lodging	Leaf Rust	Stem Rust	Fus HdBlig	Pheno type	Headrow Disease Nursery Data: Leaf Rust	Leaf Blotch	Stem Rust	Pheno type
	bu/a		lbs/bu	of yr	in	0-9	%	0-9	%	0-9	0-9	0-9	0-9	0-9
DYNA-GRO SAVOY	**35.2**	**39.5**	**57.2**	**79**	**32**	**2.8**	**0**	**0.0**	**4.9**	**4.0**	**0.5**	**3.5**	**0.0**	**6.0**
GA-04434-12LE28	26.5	39.5	58.1	88	33	2.5	1	0.0	0.0	4.0	2.0	3.5	0.0	4.0
LA01110D-150-625	31.9	39.4	57.5	84	35	4.5	3	0.0	0.1	5.0	1.5	2.5	0.0	4.5
LA03200E-2	**33.3**	**38.7**	**57.7**	**84**	**32**	**3.5**	**44**	**0.4**	**1.3**	**6.0**	**3.5**	**4.5**	**0.5**	**5.0**
LA01110D-150-241	31.9	37.2	57.2	88	36	3.3	1	0.7	0.1	4.0	0.5	3.0	0.0	4.0
USG 3120	**37.9**	**37.0**	**57.2**	**81**	**35**	**2.3**	**4**	**0.0**	**0.7**	**4.5**	**2.5**	**4.5**	**2.0**	**6.0**
AGS 2035	**35.0**	**36.8**	**55.9**	**81**	**33**	**3.8**	**0**	**0.4**	**1.2**	**4.0**	**1.0**	**2.5**	**0.0**	**3.5**
JAMESTOWN	**32.7**	**36.1**	**57.7**	**82**	**32**	**2.3**	**3**	**0.0**	**0.0**	**4.5**	**2.5**	**3.5**	**0.0**	**4.5**
PIONEER 26R94	**32.0**	**35.4**	**55.9**	**87**	**35**	**4.8**	**0**	**0.0**	**0.2**	**4.0**	**0.0**	**3.0**	**0.0**	**4.5**
DELTA GROW 3500	**28.5**	**35.0**	**55.8**	**88**	**33**	**4.8**	**1**	**0.0**	**0.0**	**3.5**	**0.5**	**3.5**	**0.0**	**4.5**
AGS 2040	**31.2**	**34.6**	**58.1**	**78**	**33**	**2.3**	**0**	**0.1**	**0.5**	**4.5**	**1.0**	**5.0**	**0.0**	**4.0**
AGS 2038	**34.8**	**33.2**	**54.7**	**85**	**35**	**3.8**	**2**	**0.1**	**0.5**	**4.5**	**0.0**	**2.5**	**0.0**	**4.0**
SYNGENTA SY CYPRESS	**32.6**	**30.6**	**57.4**	**82**	**31**	**3.5**	**28**	**0.3**	**0.0**	**6.5**	**3.5**	**5.0**	**0.0**	**6.0**
LANC8170-41-2	26.2	27.7	56.0	90	31	1.8	5	0.0	0.0	5.5	5.0	5.0	0.0	6.5
HILLIARD	**20.7**	**24.4**	**50.7**	**97**	**32**	**0.0**	**0**	**0.0**	**0.0**	**3.5**	**0.5**	**2.5**	**0.0**	**4.5**
SYNGENTA SY VIPER	**16.6**	**23.2**	**50.8**	**97**	**34**	**4.5**	**26**	**0.0**	**0.0**	**7.0**	**5.0**	**5.0**	**0.0**	**6.5**
AGS 2055	**21.7**	**22.8**	**54.0**	**93**	**34**	**3.0**	**0**	**0.1**	**0.0**	**4.5**	**0.0**	**5.5**	**0.0**	**5.0**
USG 3013	**3.9**	**15.2**		**102**	**30**	**5.8**	**39**	**2.5**	**0.0**	**8.0**	**0.0**	**2.5**	**0.0**	**4.5**
PIONEER 26R41	**4.7**	**14.2**		**100**	**29**	**2.3**	**8**	**3.1**	**0.0**	**8.0**	**3.5**	**6.5**	**5.5**	**8.0**
PROGENY 870	**4.8**	**12.4**	**56.1**	**104**	**29**	**1.5**	**6**	**0.6**	**0.0**	**6.5**	**2.5**	**5.0**	**3.5**	**6.5**
AGS 3000	**38.3**		**57.9**	**76**	**33**	**3.5**	**0**	**0.0**	**0.9**	**3.0**	**0.0**	**2.5**	**0.0**	**3.0**
LA08095C-37	35.8		57.5	81	35	3.0	30	0.0	1.0	5.0	1.0	3.0	0.0	4.5
AGS 2024	**34.6**		**57.7**	**85**	**31**	**3.5**	**0**	**0.9**	**0.4**	**4.5**	**0.5**	**3.0**	**0.0**	**3.5**
AR01040-4-1	32.8		58.0	84	37	3.8	10	0.5	0.2	6.5	3.0	3.5	0.0	4.5
GA061349-13LE31	30.7		52.4	89	31	1.8	0	0.0	0.0	3.0	0.0	2.5	0.0	3.5
LA09011UB-2	30.4		55.6	88	31	4.5	1	0.0	0.0	4.0	2.5	5.0	0.5	5.5
LA08090C-9-2	30.0		51.2	90	33	2.0	1	0.0	0.0	3.5	0.5	3.0	0.0	4.5
VA12W-72	28.8		52.4	91	32	2.3	3	0.0	0.0	3.5	2.0	3.0	0.0	4.5
PGX 15-12	**28.4**		**53.0**	**91**	**31**	**1.8**	**0**	**0.0**	**0.0**	**4.0**	**0.0**	**4.0**	**1.0**	**5.5**
GA051102-13LE43	27.5		52.5	92	33	2.5	0	0.0	0.0	3.5	0.0	3.5	0.0	3.5
LA01110D150- FOOTHOLD	27.0		58.4	85	36	3.3	7	3.4	0.5	7.5	2.0	4.0	1.5	5.0
GA061349-13LE29	26.7		51.3	94	30	3.0	0	0.0	0.0	3.5	0.0	3.0	0.0	3.0
LA01110D150-NT	26.4		58.5	85	35	3.8	8	3.1	0.4	7.5	5.0	5.5	6.0	7.0
LA08115C-30	25.7		58.7	79	34	3.0	7	4.7	18.3	8.0	6.5	4.5	7.5	8.0
PROGENY 243	**13.4**		**53.6**	**100**	**33**	**4.5**	**9**	**0.0**	**0.0**	**6.5**	**2.5**	**3.0**	**0.0**	**5.5**
PGX 15-16	9.7		51.8	106	26	1.5	10	0.0	0.0	6.5	1.5	2.0	1.0	5.0
DIXIE 16-1	**8.2**		**52.0**	**104**	**31**	**3.3**	**6**	**1.6**	**0.0**	**7.0**	**2.0**	**6.0**	**1.5**	**6.5**
ARMOR ARX1511	7.7		51.1	106	31	4.3	5	0.8	0.0	6.5	0.5	5.0	1.0	7.0
PGX 15-10	7.1		51.0	106	31	3.8	4	1.2	0.0	7.0	1.5	5.0	1.5	6.5
DELTA GROW 1000	**6.2**		**51.5**	**106**	**31**	**3.3**	**4**	**1.5**	**0.0**	**7.0**	**1.5**	**4.0**	**3.0**	**5.5**
DYNA-GRO WX 15781	5.8		51.5	106	32	4.3	3	0.8	0.0	7.0	2.0	5.0	2.0	6.5
DYNA-GRO 9642	**5.6**		**55.2**	**109**	**25**	**7.8**	**6**	**0.6**	**0.1**	**7.0**	**1.5**	**6.0**	**0.0**	**7.0**
ARMOR ARX1516	5.1			102	28	5.8	3	1.1	0.0	6.5	4.5	7.0	5.0	7.5
ARMOR ARX1514	4.8			100	27	7.0	18	3.7	0.0	8.5	5.0	6.5	4.0	7.5
ARMOR ARX1521	4.6			106	28	3.5	6	1.3	0.0	7.0	2.0	7.0	2.5	7.0
DIXIE 16-2	**4.4**			**102**	**29**	**5.3**	**8**	**3.2**	**0.0**	**8.0**	**4.0**	**6.5**	**2.5**	**7.0**
PGX 15-14	**4.2**			**100**	**29**	**5.3**	**8**	**2.5**	**0.0**	**7.5**	**5.0**	**6.0**	**5.0**	**7.5**
PROGENY 357	**4.0**			**104**	**29**	**6.0**	**27**	**0.9**	**0.0**	**7.5**	**6.0**	**7.0**	**1.0**	**8.0**
AGRIMAXX EXP 1674	**3.6**			**101**	**27**	**7.8**	**9**	**3.8**	**0.0**	**8.0**	**4.5**	**7.0**	**4.5**	**8.0**
DYNA-GRO WX 16771	**3.4**			**106**	**28**	**6.0**	**4**	**1.3**	**0.0**	**7.0**	**4.5**	**7.0**	**4.0**	**7.5**
Mean	**20.9**	**30.2**	**55.1**	**93**	**32**	**3.7**	**7**	**0.9**	**0.6**	**5.7**	**2.1**	**4.4**	**1.3**	**5.5**
CV%	**15**	**13**	**2**	**1**	**5**	**38**	**128**	**163**	**444**	**13**	**50**	**22**	**79**	**12**
LSD (0.10)	**3.5**	**8.8**	**1.2**	**1**	**2**	**1.6**	**11**	**1.7**	**3.3**	**1.2**	**1.8**	**1.6**	**1.8**	**1.1**

Data from at Rice Research Station (South Unit) . Dustin Harrell, Don Groth, Boyd Padgett, Ron Regan, James P. Leonards, and Jacob Fluitt

Cultural and Site: Crowley Silt Loam soil . Planted 11-30-15. Harvested 5-5-16. Fertilizer: 250# 0-24-24 on 12/10; 100# 21-0-0-24 on 12/10; 90# 46-0-0 on 1/29. Herbicides: Osprey (4.75 oz) plus Harmony Extra (0.9 oz) plus 1% MSO plus 3 pts Prowl /acrre on 1/9. The fall and winter were very wet with frequent saturated soils that reduced tillering and plant development.

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

Table 7. Wheat performance trial at Jeanerette, LA for 2016.

Brand / variety	Grain Yield 2016	Grain Yield 2-YR	Test Wt	Head Day	Plant Ht	Leaf Rust	Stem Rust	Septoria	Fus H Blight
	bu/a		lbs/bu	of yr	in	%	0-9	0-9	0-9
LA01110D-150-241	45.9	44.4	53.8	99	30	0	0.8	0.0	0.0
AGS 2040	**35.8**	**44.3**	**54.9**	**88**	**30**	**0**	**0.0**	**0.0**	**1.0**
LA01110D-150-625	43.1	42.7	55.1	93	31	0	0.0	0.0	0.0
AGS 2035	**38.3**	**40.7**	**53.5**	**89**	**31**	**0**	**0.0**	**0.5**	**0.5**
LA03200E-2	38.0	38.0	53.4	91	29	19	0.0	0.0	0.8
AGS 2038	**37.6**	**37.0**	**52.8**	**95**	**33**	**0**	**0.0**	**1.8**	**0.3**
GA-04434-12LE28	27.8	35.8	50.3	100	29	0	0.0	0.0	0.0
AR01040-4-1	44.1	35.2	51.3	93	33	0	0.0	0.0	0.0
DYNA-GRO SAVOY	**30.9**	**35.2**	**52.5**	**91**	**28**	**0**	**0.0**	**1.8**	**1.3**
DELTA GROW 3500	**33.3**	**34.6**	**52.2**	**96**	**30**	**0**	**0.0**	**0.0**	**0.0**
SY CYPRESS	**26.6**	**33.8**	**51.3**	**86**	**28**	**4**	**0.0**	**1.3**	**1.5**
USG 3120	**30.3**	**33.5**	**52.6**	**85**	**31**	**0**	**0.0**	**1.3**	**1.5**
JAMESTOWN	**35.6**	**32.8**	**55.0**	**90**	**26**	**3**	**0.0**	**0.0**	**0.0**
PIONEER 26R94	**34.3**	**31.5**	**51.0**	**88**	**33**	**0**	**0.0**	**0.5**	**1.3**
LANC8170-41-2	32.9	29.7	54.5	97	29	15	0.3	0.0	0.0
PIONEER 26R41	**24.5**	**28.3**	**45.7**	**106**	**28**	**19**	**1.3**	**0.0**	**0.0**
USG 3013	**0.5**	**24.0**		**111**	**29**	**85**	**0.8**	**0.5**	**0.0**
AGS 2055	**29.0**	**22.6**	**47.9**	**104**	**30**	**0**	**0.5**	**0.0**	**0.0**
HILLIARD	**28.1**	**22.0**	**49.2**	**98**	**30**	**7**	**0.0**	**0.0**	**0.0**
SY SY VIPER	**8.6**	**10.9**	**38.6**	**110**	**31**	**46**	**0.0**	**0.0**	**0.0**
PROGENY 870	**10.5**	**9.6**	**40.6**	**108**	**28**	**24**	**0.3**	**0.0**	**0.0**
LA01110D150-NT	41.4		52.8	93	31	0	0.8	0.5	0.3
LA01110D150- FTH	40.4		52.4	95	31	0	0.5	0.0	0.0
GA051102-13LE43	39.9		55.1	100	30	0	0.0	0.0	0.0
GA061349-13LE31	38.4		53.7	99	30	0	0.0	0.0	0.0
GA061349-13LE29	37.2		48.7	106	29	0	0.0	0.0	0.0
LA08090C-9-2	35.9		55.6	89	30	0	0.0	0.0	0.3
VA12W-72	34.0		49.0	100	28	5	0.0	0.0	1.0
LA09011UB-2	33.9		53.9	100	27	3	0.0	0.0	0.0
AGS 2024	**32.8**		**52.7**	**90**	**27**	**0**	**0.0**	**1.0**	**2.3**
LA08115C-30	32.3		50.8	90	29	0	0.0	0.5	2.5
LA08095C-37	30.9		54.5	86	31	8	0.0	1.0	1.8
PGX 15-12	30.7		51.6	101	27	0	0.0	0.0	0.0
DELTA GROW 1000	**28.4**		**43.5**	**110**	**29**	**17**	**1.0**	**0.0**	**0.0**
AGS 3000	**20.4**		**54.8**	**77**	**28**	**0**	**0.0**	**1.3**	**0.0**
PGX 15-10	15.6		39.6	114	29	13	0.8	0.0	0.0
DYNA-GRO WX 15781	14.9		39.0	113	29	15	0.8	0.0	0.0
DIXIE 16-1	**14.8**		**39.8**	**111**	**31**	**10**	**1.0**	**0.0**	**0.0**
PROGENY 243	**13.0**		**40.7**	**107**	**30**	**22**	**0.0**	**0.0**	**0.0**
ARMOR ARW1511	11.5		38.9	113	30	9	1.0	0.0	0.0
PGX 15-14	10.5		41.3	108	27	75	0.3	0.0	0.0
PGX 15-16	10.1		36.6	114	26	1	0.0	0.0	0.0
DIXIE 16-2	**8.1**		**40.6**	**109**	**28**	**41**	**0.5**	**0.0**	**0.0**
ARMOR ARW1516	7.8		41.2	106	27	75	0.5	0.0	0.0
DYNA-GRO WX 16771	7.6		35.1	112	28	61	1.0	0.0	0.0
ARMOR ARW1514	**7.4**		**37.2**	**109**	**27**	**59**	**0.0**	**0.0**	**0.0**
AGRIMAXX EXP 1674	6.6		40.1	108	27	64	0.5	0.0	0.0
ARMOR ARW1521	**6.2**		**40.9**	**112**	**27**	**52**	**0.0**	**0.0**	**0.0**
PROGENY 357				**112**	**27**	**76**	**1.5**	**0.0**	**0.0**
DYNA-GRO 9642				**115**	**23**	**71**	**0.8**	**0.0**	**0.0**

Table 7. Wheat performance trial at Jeanerette, LA for 2016.

Brand / variety	Grain Yield 2016	Grain Yield 2-YR	Test Wt	Head Day	Plant Ht	Leaf Rust	Stem Rust	Septoria	Fus H Blight
	bu/a		lbs/bu	of yr	in	%	0-9	0-9	0-9
Mean	**28.7**	**32.1**	**49.1**	**100**	**29**	**18**	**0.3**	**0.2**	**0.3**
CV	**25**	**22**	**6**	**2**	**4**	**61**	**245**	**251**	**140**
LSD	**9.9**	**7.5**	**3.9**	**3**	**2**	**13**	**0.8**	**0.7**	**0.5**

Data from Iberia Research Station, Jeanerette, LA. Greg Williams and Sonny Viator.

Cultural and Site: Planted 11-13-15. harvested 5-16-16. Very wet early season: 13" in November 4.27" in December and 6.41" in January. 20-20-20 applied preplant followed by 100-0-0 as urea on 2-18-16. 2,4.D amine on 12-12-15 followed by Finesse 0.4 oz/acre on 1-20-16. Some varieties failed to vernalize.

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

Table 8. Wheat performance trial at Jeanerette, LA for 2016. Very late heading, non-adapted lines were dropped from this table.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Leaf Rust %	Stem Rust 0-9	Septoria 0-9	Fus H Blight 0-9
LA01110D-150-241	45.9	53.8	99	30	0	0.8	0.0	0.0
AR01040-4-1	44.1	51.3	93	33	0	0.0	0.0	0.0
LA01110D-150-625	43.1	55.1	93	31	0	0.0	0.0	0.0
LA01110D150-NT	41.4	52.8	93	31	0	0.8	0.5	0.3
LA01110D150-FTH	40.4	52.4	95	31	0	0.5	0.0	0.0
GA051102-13LE43	39.9	55.1	100	30	0	0.0	0.0	0.0
GA061349-13LE31	38.4	53.7	99	30	0	0.0	0.0	0.0
AGS 2035	**38.3**	**53.5**	**89**	**31**	**0**	**0.0**	**0.5**	**0.5**
LA03200E-2	38.0	53.4	91	29	19	0.0	0.0	0.8
AGS 2038	**37.6**	**52.8**	**95**	**33**	**0**	**0.0**	**1.8**	**0.3**
GA061349-13LE29	37.2	48.7	106	29	0	0.0	0.0	0.0
LA08090C-9-2	35.9	55.6	89	30	0	0.0	0.0	0.3
AGS 2040	**35.8**	**54.9**	**88**	**30**	**0**	**0.0**	**0.0**	**1.0**
JAMESTOWN	**35.6**	**55.0**	**90**	**26**	**3**	**0.0**	**0.0**	**0.0**
PIONEER 26R94	**34.3**	**51.0**	**88**	**33**	**0**	**0.0**	**0.5**	**1.3**
VA12W-72	34.0	49.0	100	28	5	0.0	0.0	1.0
LA09011UB-2	33.9	53.9	100	27	3	0.0	0.0	0.0
DELTA GROW 3500	**33.3**	**52.2**	**96**	**30**	**0**	**0.0**	**0.0**	**0.0**
LANC8170-41-2	32.9	54.5	97	29	15	0.3	0.0	0.0
AGS 2024	**32.8**	**52.7**	**90**	**27**	**0**	**0.0**	**1.0**	**2.3**
LA08115C-30	32.3	50.8	90	29	0	0.0	0.5	2.5
LA08095C-37	30.9	54.5	86	31	8	0.0	1.0	1.8
DYNA-GRO SAVOY	**30.9**	**52.5**	**91**	**28**	**0**	**0.0**	**1.8**	**1.3**
PGX 15-12	30.7	51.6	101	27	0	0.0	0.0	0.0
USG 3120	**30.3**	**52.6**	**85**	**31**	**0**	**0.0**	**1.3**	**1.5**
PIONEER 26R41	**30.2**	**45.7**	**106**	**28**	**19**	**1.3**	**0.0**	**0.0**
AGS 2055	**29.0**	**47.9**	**104**	**30**	**0**	**0.5**	**0.0**	**0.0**
DELTA GROW 1000	**28.4**	**43.5**	**110**	**29**	**17**	**1.0**	**0.0**	**0.0**
HILLIARD	**28.1**	**49.2**	**98**	**30**	**7**	**0.0**	**0.0**	**0.0**
GA-04434-12LE28	27.8	50.3	100	29	0	0.0	0.0	0.0
Mean	**33.2**	**49.1**	**100**	**29**	**18**	**0.3**	**0.2**	**0.3**
CV	**22**	**6**	**2**	**4**	**61**	**245**	**251**	**140**
LSD	**8.9**	**3.9**	**3**	**2**	**13**	**0.8**	**0.7**	**0.5**

Data from Iberia Research Station, Jeanerette, LA. Greg Williams and Sonny Viator.

Cultural and Site: Planted 11-13-15. harvested 5-16-16. Very wet early season: 13" in November 4.27" in December and 6.41" in January. 20-20-20 applied preplant followed by 100-0-0 as urea on 2-18-16. 2,4.D amine on 12-12-15 followed by Finesse 0.4 oz/acre on 1-20-16. Some varieties failed to vernalize.

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

Table 9. Wheat performance trial across North Louisiana for 2016.

Brand / variety	Grain Yield	Test Wt	Head Day	Plant Ht	Lod Score	Stripe Rust	Leaf Rust	Leaf Blotch	Pheno type	Fus HBlt	FDK	Seed Qual
	bu/a	lbs/bu	of yr	in	0-9	%	%	0-9	0-9	0-9	0-9	0-9
LA01110D-150-241	66.4	55.1	93	41	0.2	4	0	2.3	3.5	0.8	3.2	3.5
PGX 15-12	64.4	55.8	95	37	0.1	1	0	1.5	4.5	0.0	1.2	2.8
DELTA GROW 3500	**62.9**	**56.6**	**89**	**38**	**1.5**	**2**	**0**	**2.3**	**3.5**	**1.5**	**2.2**	**3.0**
VA12W-72	62.9	52.6	93	38	0.6	0	3	1.5	4.0	0.0	2.2	3.7
AGS 2055	**61.5**	**49.1**	**96**	**41**	**0.6**	**0**	**0**	**2.3**	**3.0**	**0.0**	**5.3**	**5.2**
LA08090C-9-2	60.9	55.6	92	39	0.3	2	0	2.0	3.0	0.5	2.5	3.3
LA01110D150-FTH	59.2	54.9	89	41	0.5	10	0	3.3	4.0	1.8	2.5	3.3
LA01110D150-NT	58.5	54.2	89	40	0.0	12	0	3.5	5.0	1.8	2.8	3.3
AGS 2038	**58.0**	**53.2**	**91**	**40**	**0.0**	**4**	**0**	**2.3**	**4.0**	**3.3**	**3.7**	**4.8**
LA09011UB-2	57.4	56.6	90	36	2.2	0	1	2.5	4.5	0.3	2.0	3.5
GA061349-13LE29	57.3	52.1	96	38	0.6	0	0	1.3	3.5	0.0	4.3	4.8
LA01110D-150-625	56.1	56.4	90	41	1.3	0	0	2.3	4.0	1.0	1.5	3.0
LA03200E-2	55.8	54.9	89	39	0.8	2	18	3.0	4.0	1.5	3.2	3.8
LANC8170-41-2	55.5	55.6	93	38	1.1	1	12	1.8	4.5	0.3	1.3	3.0
HILLIARD	**55.4**	**50.6**	**97**	**41**	**0.9**	**0**	**1**	**1.5**	**4.0**	**0.0**	**3.3**	**4.8**
PIONEER 26R94	**55.3**	**54.9**	**88**	**39**	**0.0**	**0**	**0**	**2.3**	**3.5**	**1.8**	**2.2**	**3.2**
LA08115C-30	54.7	54.1	85	37	0.0	0	12	4.3	5.5	3.0	3.0	3.8
AGS 2024	**54.5**	**53.4**	**90**	**36**	**0.8**	**1**	**0**	**4.0**	**4.0**	**2.0**	**3.5**	**4.2**
GA061349-13LE31	53.1	52.7	94	38	0.3	1	0	2.3	4.5	0.0	4.7	4.2
AGS 2040	**52.9**	**55.7**	**85**	**39**	**0.2**	**0**	**0**	**5.0**	**5.0**	**0.0**	**1.3**	**3.2**
DELTA GROW 1000	**52.3**	**52.5**	**104**	**41**	**1.9**	**0**	**0**	**1.0**	**4.5**	**0.0**	**1.5**	**3.8**
GA051102-13LE43	52.2	54.2	95	40	0.2	0	0	2.3	4.0	0.0	4.7	3.7
SY CYPRESS	**51.0**	**54.4**	**82**	**35**	**1.5**	**18**	**15**	**3.0**	**5.5**	**0.5**	**1.3**	**3.3**
JAMESTOWN	**50.2**	**56.6**	**88**	**36**	**3.4**	**2**	**3**	**3.8**	**4.5**	**0.0**	**1.0**	**3.5**
ARMOR ARW1511	49.3	52.5	106	40	0.8	0	0	1.0	4.0	0.0	1.0	3.7
USG 3120	**49.2**	**54.2**	**83**	**40**	**0.0**	**16**	**0**	**3.3**	**5.0**	**1.0**	**2.3**	**3.8**
DYNA-GRO WX 15781	49.0	52.3	105	40	0.7	0	1	1.0	4.0	0.0	1.3	3.8
PGX 15-10	48.4	52.6	106	41	1.6	2	0	1.3	3.5	0.0	1.5	3.8
GA-04434-12LE28	48.1	51.4	90	40	2.0	7	1	2.8	4.0	1.8	3.7	4.5
AR01040-4-1	48.0	52.6	88	43	0.2	5	9	1.8	4.0	0.0	1.7	3.8
AGS 2035	**48.0**	**52.5**	**85**	**41**	**0.5**	**22**	**1**	**3.5**	**5.5**	**0.5**	**3.0**	**4.2**
DIXIE 16-1	**46.0**	**50.4**	**105**	**38**	**1.4**	**0**	**1**	**1.3**	**4.0**	**0.0**	**1.8**	**4.2**
PGX 15-16	45.8	52.7	103	35	2.4	0	2	1.3	5.0	0.0	1.7	3.7
PIONEER 26R41	**45.4**	**49.6**	**103**	**38**	**1.4**	**0**	**4**	**1.5**	**5.0**	**0.0**	**3.7**	**5.0**
LA08095C-37	44.4	53.7	85	41	0.8	2	6	3.0	5.5	2.0	2.8	4.0
DYNA-GRO SAVOY	**41.9**	**55.0**	**82**	**35**	**0.6**	**4**	**0**	**6.0**	**7.0**	**0.0**	**2.3**	**4.7**
AGS 3000	**37.6**	**57.3**	**79**	**38**	**0.0**	**0**	**0**	**5.3**	**5.0**	**0.5**	**1.5**	**3.3**
SY VIPER	**37.6**	**50.3**	**98**	**41**	**3.8**	**0**	**34**	**1.5**	**4.0**	**0.3**	**2.3**	**4.7**
DELTA GROW 7500	**36.7**	**45.0**	**101**	**38**	**0.5**	**0**	**15**	**1.3**	**4.5**	**0.0**	**3.4**	**6.2**
DIXIE MCALISTER	**35.7**	**44.8**	**103**	**38**	**0.4**	**0**	**16**	**1.5**	**5.5**	**0.0**	**3.2**	**6.2**
AGRIMAXX 413	**35.6**	**44.8**	**102**	**37**	**0.6**	**0**	**16**	**1.5**	**5.5**	**0.0**	**3.3**	**6.0**
PROGENY 870	**34.2**	**41.4**	**103**	**38**	**0.4**	**0**	**14**	**1.5**	**5.5**	**0.0**	**3.8**	**7.0**
DYNA-GRO 9171	**33.8**	**42.4**	**102**	**37**	**0.7**	**0**	**12**	**1.8**	**5.0**	**0.3**	**4.2**	**6.7**
GO WHEAT 2056	**33.4**	**44.2**	**104**	**38**	**0.6**	**0**	**12**	**2.0**	**5.0**	**0.0**	**3.2**	**6.7**
AGRIMAXX 415	**32.6**	**47.2**	**100**	**38**	**2.9**	**0**	**20**	**1.5**	**5.5**	**0.0**	**3.5**	**5.7**
USG 3201	**32.2**	**45.7**	**101**	**36**	**4.1**	**0**	**29**	**1.5**	**5.0**	**0.0**	**3.2**	**6.2**
PROGENY 243	**31.9**	**46.0**	**99**	**43**	**4.0**	**1**	**20**	**1.8**	**6.5**	**0.0**	**2.3**	**5.2**
PIONEER 26R59	**29.5**	**42.5**	**100**	**35**	**2.3**	**0**	**32**	**1.0**	**5.0**	**0.0**	**3.0**	**6.2**
DYNA-GRO 9522	**29.4**	**46.3**	**103**	**39**	**3.3**	**0**	**31**	**2.0**	**5.0**	**0.0**	**2.7**	**6.2**
DELTA GROW 2700	**28.1**	**46.0**	**104**	**39**	**1.9**	**1**	**30**	**2.0**	**5.5**	**0.0**	**2.3**	**5.8**

Table 9. Wheat performance trial across North Louisiana for 2016.

Brand / variety	Grain Yield	Test Wt	Head Day	Plant Ht	Lod Score	Stripe Rust	Leaf Rust	Leaf Blotch	Pheno type	Fus HBlt	FDK	Seed Qual
	bu/a	lbs/bu	of yr	in	0-9	%	%	0-9	0-9	0-9	0-9	0-9
AGRIMAXX 444	**27.6**	**45.2**	**104**	**39**	**2.4**	**0**	**28**	**1.5**	**5.5**	**0.0**	**2.5**	**5.3**
PIONEER 26R53	**27.5**	**47.4**	**100**	**37**	**3.9**	**0**	**21**	**2.0**	**5.5**	**0.8**	**2.6**	**5.6**
USG 3404	**27.0**	**45.7**	**105**	**38**	**2.7**	**1**	**26**	**1.8**	**6.0**	**0.0**	**2.2**	**5.5**
AGRIMAXX 446	**26.2**	**46.9**	**103**	**37**	**2.5**	**4**	**39**	**1.8**	**6.5**	**0.0**	**3.2**	**6.0**
PGX 15-14	**25.3**	**41.7**	**102**	**37**	**3.1**	**0**	**24**	**1.3**	**5.5**	**0.0**	**3.3**	**6.3**
ARMOR ARW1516	24.8	41.2	101	38	3.4	0	24	2.0	5.5	0.0	3.7	6.2
SY HARRISON	**24.5**	**41.8**	**103**	**37**	**3.0**	**0**	**43**	**1.8**	**6.0**	**0.0**	**3.3**	**6.3**
AGRIMAXX EXP 1674	24.1	43.1	102	37	2.7	0	34	1.5	6.0	0.0	3.2	6.0
ARMOR ARW1514	**23.6**	**42.0**	**102**	**38**	**2.7**	**0**	**27**	**1.5**	**5.0**	**0.0**	**3.3**	**6.2**
DIXIE 16-2	**22.6**	**42.3**	**102**	**36**	**2.7**	**1**	**29**	**1.5**	**6.0**	**0.0**	**2.8**	**5.8**
ARMOR ARW1521	22.1	44.1	104	38	4.6	2	10	1.5	6.0	0.0	3.0	6.2
DYNA-GRO WX 16771	21.4	46.4	106	37	4.8	0	10	1.8	5.5	0.0	2.7	6.2
DIXIE EXTREME	**14.0**	**38.5**	**103**	**39**	**6.8**	**10**	**59**	**1.5**	**6.5**	**0.0**	**3.3**	**7.0**
USG 3013	**13.7**	**41.7**	**105**	**36**	**6.7**	**0**	**63**	**1.3**	**6.5**	**0.0**	**3.2**	**6.3**
DYNA-GRO 9642	**13.5**	**40.2**	**109**	**36**	**7.5**	**0**	**19**	**1.8**	**6.5**	**0.0**	**2.8**	**6.8**
PROGENY 357	**12.3**	**45.4**	**104**	**37**	**6.3**	**0**	**64**	**1.3**	**7.0**	**0.0**	**3.3**	**7.0**
Mean	**41.7**	**49.9**	**97**	**38**	**1.9**	**2**	**14**	**2.1**	**4.9**	**0.4**	**3.3**	**4.8**
CV	**17**	**4**	**2**	**3**	**87**	**169**	**62**	**27**	**12**	**122**	**25**	**14**
LSD	**10.3**	**2.7**	**3.0**	**3.2**	**1.8**	**4**	**17**	**ns**	**ns**	**ns**	**0.9**	**0.9**

Data from Alexandria, St. Joseph, and Winnsboro, LA.

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

NS indicates non-significant differences among varieties.

Leaf Blotch is a indistinguishable complex of leaf diseases that may include spetorai, tan spot, and bacterial streak; 0 = none and 9 = severe.

Seed Quality is a visual rating of seed plumpness and brightness and visual blemishes with 0 = perfect and 9 = very poor.

FDK is a visual estimate of the Fusarium Damaged Kernels on a 0 = none to 9 = severe scale. FDK can contribute to poor SDQ rating.

Table 10. Wheat performance trial across North Louisiana for two years, 2015 and 2016.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Heading Day of yr	Plant Ht in	Lodging Score 0-9	Stripe Rust %	Leaf Rust %	Fus H Blight 0-9	FDK %	Pheno type 0-9
DELTA GROW 3500	**60.3**	**54.7**	**92**	**36**	**1.6**	**1**	**0**	**4.7**	**24**	**3.8**
LA01110D-150-241	57.3	52.2	94	40	0.8	2	0	4.4	29	3.9
HILLIARD	**56.7**	**52.7**	**98**	**39**	**1.0**	**0**	**1**	**2.1**	**34**	**4.0**
PIONEER 26R41	**55.9**	**52.9**	**102**	**35**	**1.5**	**0**	**3**	**1.7**	**36**	**4.1**
LA03200E-2	55.3	53.8	92	38	0.8	4	14	4.6	31	4.1
LANC8170-41-2	54.4	53.8	95	36	0.6	0	8	2.3	18	4.3
AGS 2055	**54.0**	**48.5**	**97**	**39**	**0.8**	**0**	**0**	**4.3**	**45**	**2.8**
AGS 2038	**53.4**	**52.8**	**95**	**41**	**0.2**	**4**	**0**	**4.6**	**35**	**3.8**
LA01110D-150-625	52.8	54.5	93	41	1.5	0	0	4.3	24	4.1
JAMESTOWN	**50.3**	**56.4**	**91**	**36**	**2.2**	**3**	**2**	**2.8**	**23**	**4.3**
PIONEER 26R94	**50.2**	**53.7**	**91**	**39**	**0.2**	**0**	**0**	**5.1**	**27**	**4.0**
AR01040-4-1	49.7	52.3	93	44	0.6	2	6	3.0	23	4.0
SY VIPER	**48.9**	**52.0**	**98**	**41**	**3.1**	**0**	**27**	**2.4**	**31**	**4.0**
GO WHEAT 2056	**48.4**	**48.8**	**102**	**37**	**0.9**	**0**	**9**	**2.0**	**32**	**4.4**
SY CYPRESS	**48.2**	**53.3**	**88**	**35**	**1.8**	**26**	**12**	**3.8**	**21**	**5.6**
DIXIE MCALISTER	**48.1**	**49.2**	**101**	**35**	**0.7**	**0**	**13**	**1.9**	**33**	**4.4**
AGS 2040	**47.9**	**55.6**	**89**	**37**	**0.5**	**2**	**0**	**4.2**	**22**	**5.1**
PROGENY 870	**47.3**	**47.5**	**102**	**36**	**0.8**	**0**	**13**	**2.1**	**38**	**4.8**
GA-04434-12LE28	47.1	49.7	93	37	1.6	3	1	5.0	37	4.5
DYNA-GRO 9171	**47.0**	**48.0**	**101**	**36**	**0.8**	**0**	**9**	**2.3**	**41**	**4.5**
AGRIMAXX 413	**46.9**	**50.9**	**101**	**36**	**0.9**	**0**	**14**	**2.3**	**33**	**4.5**
AGS 2035	**46.7**	**52.8**	**89**	**40**	**0.6**	**30**	**1**	**4.2**	**31**	**5.4**
USG 3120	**45.1**	**52.7**	**88**	**38**	**0.7**	**27**	**0**	**4.7**	**29**	**5.1**
USG 3201	**45.1**	**50.9**	**101**	**36**	**3.5**	**0**	**20**	**1.6**	**32**	**4.9**
DELTA GROW 7500	**44.5**	**50.3**	**101**	**38**	**1.0**	**5**	**10**	**1.3**	**34**	**4.9**
PIONEER 26R53	**44.4**	**53.1**	**100**	**35**	**3.2**	**0**	**14**	**1.4**	**28**	**4.6**
AGRIMAXX 415	**44.3**	**52.1**	**100**	**37**	**3.2**	**1**	**16**	**1.5**	**36**	**4.9**
USG 3404	**44.2**	**49.3**	**104**	**38**	**2.7**	**0**	**21**	**1.4**	**26**	**5.1**
DYNA-GRO SAVOY	**43.9**	**53.4**	**87**	**36**	**0.5**	**2**	**0**	**4.2**	**31**	**6.1**
AGRIMAXX 446	**43.6**	**51.7**	**103**	**38**	**2.2**	**2**	**30**	**1.4**	**32**	**5.3**
DYNA-GRO 9522	**42.8**	**50.8**	**103**	**38**	**2.3**	**0**	**23**	**1.3**	**30**	**4.5**
AGRIMAXX 444	**42.7**	**50.0**	**103**	**37**	**2.4**	**0**	**20**	**1.5**	**30**	**4.8**
DELTA GROW 2700	**42.6**	**50.5**	**103**	**37**	**1.9**	**0**	**21**	**1.7**	**30**	**4.8**
PIONEER 26R59	**42.5**	**49.0**	**101**	**34**	**1.9**	**0**	**23**	**1.4**	**32**	**4.5**
USG 3013	**40.1**	**50.2**	**102**	**33**	**4.6**	**0**	**39**	**1.7**	**32**	**5.0**
SY HARRISON	**38.0**	**47.2**	**103**	**37**	**3.3**	**1**	**35**	**2.0**	**34**	**5.1**
DIXIE EXTREME	**31.1**	**46.2**	**102**	**40**	**5.7**	**4**	**42**	**1.6**	**35**	**5.6**
Mean	**47.6**	**51.5**	**97**	**37**	**1.7**	**3**	**12**	**2.8**	**31**	**4.6**
CV (0.10)	**14**	**5**	**1**	**6**	**87**	**127**	**67**	**27**	**21**	**12**
LSD	**11.8**	**1.5**	**3**	**2**	**1.3**	**7**	**13**	**1.3**	**7.8**	**1.3**

Data from 2015 and 2016 Bossier City, St. Joseph, and Winnsboro, LA and 2016 Alexandria.

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

NS indicates non-significant differences among varieties.

Phenotype is 'eye appeal' 0 = excellent and 9 = ugly.

FDK is estimated Fusarium Damaged Kernels on a 0 = none to 9 = severe. FDK can contribute to poor SQ rating.

Significant Correlations with Yield: TestWt = +0.57**, HdDay = -0.42**, Lod = -0.64**, LfRust = -0.74**, FHB = +0.52**, PHE = -0.70**

Table 11. Wheat performance trial across North Louisiana for three years, 2014, 2015 and 2016.

Brand / variety	Grain Yield	Test Wt	Heading Day	Plant Ht	Lod Score	Stripe Rust	Leaf Rust	Fus H Blight	FDK	Pheno type
	bu/a	lbs/bu	of yr	in	0-9	%	%	0-9	%	0-9
PIONEER 26R41	**68.1**	**54.3**	**105**	**35**	**1.3**	**0**	**2**	**1.4**	**33.9**	**4.3**
AGS 2038	**64.8**	**54.4**	**101**	**40**	**0.5**	**4**	**0**	**3.5**	**35.9**	**4.1**
DYNA-GRO 9171	**63.1**	**50.6**	**103**	**35**	**0.8**	**0**	**8**	**1.9**	**36.0**	**4.3**
LA03200E-2	63.0	55.2	96	36	0.8	4	10	3.7	33.3	3.6
JAMESTOWN	**61.4**	**57.0**	**95**	**35**	**1.8**	**3**	**1**	**2.4**	**23.6**	**4.1**
PIONEER 26R94	**61.0**	**55.2**	**95**	**38**	**0.3**	**0**	**0**	**3.9**	**24.4**	**4.2**
GO WHEAT 2056	**60.9**	**51.1**	**104**	**35**	**1.0**	**0**	**7**	**1.5**	**32.7**	**4.4**
DIXIE MCALISTER	**60.7**	**51.1**	**104**	**35**	**0.7**	**0**	**12**	**1.4**	**32.0**	**4.7**
USG 3201	**60.7**	**53.4**	**103**	**36**	**2.8**	**0**	**15**	**1.2**	**31.7**	**4.8**
PROGENY 870	**60.4**	**50.1**	**104**	**35**	**0.8**	**0**	**11**	**1.6**	**37.7**	**4.4**
SY CYPRESS	**59.8**	**54.7**	**93**	**35**	**1.5**	**26**	**8**	**2.9**	**23.4**	**4.8**
USG 3404	**59.7**	**51.7**	**105**	**37**	**2.2**	**0**	**16**	**1.1**	**24.4**	**4.3**
DELTA GROW 7500	**59.3**	**52.2**	**103**	**36**	**1.0**	**5**	**7**	**0.9**	**31.2**	**4.6**
PIONEER 26R53	**59.2**	**54.7**	**104**	**34**	**2.5**	**0**	**11**	**1.1**	**25.7**	**4.2**
USG 3120	**59.0**	**54.6**	**93**	**38**	**0.7**	**27**	**0**	**4.2**	**28.5**	**4.4**
AGS 2035	**58.2**	**54.6**	**95**	**38**	**0.7**	**30**	**1**	**3.3**	**32.9**	**4.9**
DYNA-GRO SAVOY	**58.0**	**54.7**	**93**	**34**	**0.9**	**2**	**0**	**3.8**	**31.5**	**5.1**
AGS 2040	**56.0**	**56.2**	**94**	**35**	**0.6**	**2**	**0**	**3.3**	**23.4**	**4.3**
SY HARRISON	**55.8**	**49.8**	**104**	**36**	**2.6**	**1**	**27**	**1.5**	**32.5**	**4.6**
DIXIE EXTREME	**50.0**	**49.5**	**106**	**39**	**4.5**	**4**	**33**	**1.2**	**36.3**	**4.8**
Mean	**60.0**	**53.3**	**100**	**36**	**1.4**	**6**	**9**	**2.3**	**31.0**	**4.4**
CV	**12**	**4**	**1**	**6**	**89**	**11**	**81**	**37**	**24**	**14**
LSD	**7.4**	**2.3**	**3**	**1**	**1.1**	**9**	**10**	**1.0**	**7.6**	**0.8**

Data from 2014 and 2016 Alexandria; 2014 and 2015 Bossier City; and 2014, 2015, and 2016 St. Joseph, and Winnsboro, LA.

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

NS indicates non-significant differences among varieties.

Phenotype is 'eye appeal' 0 = excellent and 9 = ugly.

FDK is estimated Fusarium Damaged Kernels on a 0 = none to 9 = severe. FDK can contribute to poor SDQ rating.

Significant Correlations with Yield: LfRust = -0.56**, PHE = -0.49*

Table 12. Wheat performance trial at Alexandria for 2016.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lod Score 0-9	Leaf Rust %	Bacteria 0-9	Fus Blight 0-9	Seed Qual 0-9	FDK 0-9	DON ppm
DELTA GROW 3500	**61.7**	**53.3**	**91**	**41**	**0.0**	**0**	**0.0**	**0.0**	**3.0**	**3.5**	
VA12W-72	56.4	55.9	88	37	0.0	6	0.0	0.0	3.0	1.5	
HILLIARD	**56.3**	**54.3**	**91**	**41**	**0.5**	**2**	**0.0**	**0.0**	**4.0**	**2.5**	
LA08090C-9-2	56.1	58.5	84	40	0.5	0	1.0	0.5	3.0	2.0	
LA03200E-2	54.8	57.0	80	39	0.0	44	0.0	1.5	4.0	4.5	
AGS 3500	**54.4**	**58.7**	**83**	**41**	**1.5**	**0**	**0.0**	**1.5**	**2.5**	**2.5**	
JAMESTOWN	**54.1**	**58.5**	**80**	**37**	**0.5**	**4**	**1.8**	**0.0**	**3.0**	**1.0**	
LA01110D-150-241	51.5	56.0	88	41	1.0	0	0.0	0.8	3.5	3.0	
LANC8170-41-2	49.0	58.3	88	39	0.0	26	0.0	0.3	2.0	1.0	
LA08115C-30	48.8	56.1	76	39	0.0	30	3.8	3.0	3.5	3.0	
LA01110D150- FOOTHOLD	47.3	56.1	82	42	2.5	0	1.8	1.8	3.0	2.0	
AGS 2024	**47.1**	**56.3**	**77**	**37**	**0.0**	**0**	**0.0**	**2.0**	**4.0**	**3.5**	
GA061349-13LE29	46.4	55.9	91	38	1.0	0	0.0	0.0	4.0	2.5	
PGX 15-12	46.3	54.8	90	36	0.5	0	0.0	0.0	3.0	1.0	
GA-04434-12LE28	45.4	55.3	84	40	1.0	1	3.8	1.8	3.5	3.0	
LA01110D150-NT	45.3	55.5	82	41	0.0	0	0.0	1.8	3.0	2.0	
PIONEER 26R41	**45.0**	**49.6**	**98**	**39**	**0.0**	**2**	**0.0**	**0.0**	**5.0**	**3.5**	
ARMOR ARW1511	**44.6**	**53.8**	**102**	**41**	**0.5**	**0**	**0.0**	**0.0**	**4.0**	**1.0**	
LA09011UB-2	44.5	58.3	85	38	3.0	1	1.8	0.3	3.0	1.5	
DELTA GROW 1000	**44.2**	**52.4**	**101**	**42**	**0.0**	**0**	**0.0**	**0.0**	**4.0**	**1.5**	
AGS 2035	**43.5**	**57.2**	**76**	**43**	**0.0**	**0**	**0.0**	**0.5**	**3.5**	**1.5**	
AGS 2038	**43.1**	**54.6**	**81**	**40**	**0.0**	**0**	**0.0**	**3.3**	**5.0**	**4.5**	
DYNA-GRO WX 15781	42.8	52.0	101	41	0.0	0	0.0	0.0	4.0	1.0	
SYNGENTA SY CYPRESS	**42.7**	**57.6**	**73**	**35**	**0.0**	**63**	**0.0**	**0.5**	**2.5**	**1.0**	
LA01110D-150-625	42.6	56.5	81	43	1.0	0	0.0	1.0	3.0	1.5	
PGX 15-16	42.2	55.6	98	37	1.0	3	0.0	0.0	2.5	1.0	
GO WHEAT 2056	**40.9**	**47.1**	**100**	**39**	**0.0**	**20**	**0.0**	**0.0**	**6.0**	**3.5**	
PGX 15-10	40.7	53.1	102	41	0.5	0	0.0	0.0	4.5	1.0	
AGS 2040	**40.5**	**57.3**	**77**	**38**	**0.0**	**0**	**0.0**	**0.0**	**3.0**	**1.5**	
AGRIMAXX 413	**39.9**	**47.8**	**99**	**38**	**0.0**	**26**	**0.0**	**0.0**	**5.0**	**3.0**	
PIONEER 26R94	**39.7**	**57.2**	**78**	**40**	**0.0**	**0**	**0.5**	**1.8**	**3.0**	**2.0**	
PROGENY 243	**38.5**	**52.2**	**93**	**42**	**2.5**	**27**	**0.0**	**0.0**	**3.5**	**1.0**	
GA061349-13LE31	37.4	56.3	90	38	0.0	0	0.0	0.0	3.5	3.5	
DELTA GROW 7500	**37.1**	**50.3**	**98**	**37**	**0.0**	**29**	**0.0**	**0.0**	**5.0**	**3.0**	
DYNA-GRO 9171	**36.9**	**43.6**	**98**	**39**	**0.5**	**17**	**0.0**	**0.3**	**7.0**	**4.0**	
DIXIE MCALISTER	**36.9**	**47.9**	**100**	**38**	**0.5**	**29**	**0.0**	**0.0**	**6.0**	**3.5**	
GA051102-13LE43	36.4	55.9	88	40	1.0	0	0.0	0.0	3.5	4.0	
LA08095C-37	36.2	56.4	77	41	0.0	0	0.0	2.0	4.0	3.0	
DIXIE 16-1	**35.7**	**49.5**	**101**	**40**	**0.0**	**0**	**0.0**	**0.0**	**4.5**	**2.0**	
AGRIMAXX 415	**35.3**	**53.3**	**95**	**37**	**0.0**	**33**	**0.0**	**0.0**	**4.0**	**2.5**	
USG 3201	**34.7**	**49.1**	**97**	**38**	**3.5**	**53**	**0.0**	**0.0**	**5.5**	**2.5**	
USG 3120	**34.7**	**56.8**	**76**	**41**	**0.0**	**0**	**2.0**	**1.0**	**4.5**	**2.5**	
PROGENY 870	**34.1**	**40.1**	**100**	**37**	**0.0**	**24**	**0.0**	**0.0**	**7.0**	**3.0**	
DYNA-GRO 9522	**29.5**	**49.7**	**97**	**40**	**1.5**	**46**	**0.0**	**0.0**	**5.0**	**3.0**	
USG 3404	**28.8**	**49.8**	**101**	**38**	**1.0**	**44**	**0.0**	**0.0**	**4.0**	**1.5**	

Table 12. Wheat performance trial at Alexandria for 2016.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lod Score 0-9	Leaf Rust %	Bacteria 0-9	Fus Blight 0-9	Seed Qual 0-9	FDK 0-9	DON ppm
DELTA GROW 2700	**26.5**	**48.7**	**100**	**41**	**0.5**	**53**	**0.0**	**0.0**	**5.0**	**2.0**	
AGRIMAXX 446	**25.3**	**51.0**	**101**	**38**	**0.5**	**57**	**0.0**	**0.0**	**5.0**	**3.0**	
AGRIMAXX 444	**25.3**	**49.5**	**100**	**39**	**1.5**	**51**	**0.0**	**0.0**	**4.5**	**2.0**	
PGX 15-14	24.6	45.2	97	37	1.5	41	0.0	0.0	5.5	3.0	
ARMOR ARW1514	**24.6**	**44.5**	**98**	**37**	**1.0**	**49**	**0.0**	**0.0**	**6.0**	**3.5**	
SYNGENTA HARRISON	**24.0**	**46.6**	**100**	**37**	**1.5**	**71**	**0.0**	**0.0**	**4.5**	**3.0**	
AR01040-4-1	23.0	54.5	78	44	1.0	18	0.5	0.0	3.5	1.0	
AGRIMAXX EXP 1674	23.0	45.0	99	37	1.0	55	0.0	0.0	6.0	2.5	
DYNA-GRO WX 16771	22.9	47.1	101	37	0.5	13	0.0	0.0	6.0	2.5	
PIONEER 26R59	**22.2**	**45.3**	**97**	**35**	**1.0**	**64**	**0.0**	**0.0**	**6.0**	**2.5**	
ARMOR ARW1516	**21.3**	**45.7**	**96**	**37**	**0.0**	**39**	**0.0**	**0.0**	**5.5**	**2.5**	
PIONEER 26R53	**21.0**	**50.2**	**96**	**36**	**3.0**	**40**	**0.0**	**0.8**	**5.5**	**3.0**	
ARMOR ARW1521	**20.9**	**45.5**	**100**	**37**	**1.0**	**12**	**0.0**	**0.0**	**6.0**	**3.5**	
DIXIE 16-2	**19.3**	**46.1**	**96**	**37**	**2.5**	**51**	**0.0**	**0.0**	**6.0**	**3.5**	
AGS 3000	**19.2**	**58.8**	**72**	**39**	**0.0**	**0**	**2.3**	**0.5**	**3.0**	**1.0**	
SYNGENTA SY VIPER	**17.2**	**51.3**	**92**	**41**	**4.5**	**72**	**0.0**	**0.3**	**5.0**	**2.5**	
USG 3013	**13.7**	**45.1**	**102**	**37**	**2.5**	**90**	**0.0**	**0.0**	**5.5**	**2.5**	
DYNA-GRO SAVOY	**12.1**	**55.4**	**75**	**35**	**0.0**	**0**	**2.8**	**0.0**	**5.5**	**3.5**	
DYNA-GRO 9642	**11.7**	**39.2**	**103**	**36**	**5.0**	**17**	**0.0**	**0.0**	**7.0**	**3.5**	
PROGENY 357	**9.9**	**45.4**	**99**	**37**	**2.5**	**83**	**0.0**	**0.0**	**6.0**	**3.0**	
DIXIE EXTREME	**8.8**	**36.6**	**98**	**39**	**4.0**	**91**	**0.0**	**0.0**	**6.5**	**3.0**	
Mean	**35.9**	**51.8**	**91**	**39**	**0.9**	**23**	**0.3**	**0.4**	**4.4**	**2.5**	
CV	**24**	**5**	**2**	**3**	**100**	**45**	**350**	**123**	**14**	**29**	
LSD	**10.0**	**4.3**	**2.4**	**2**	**1.5**	**13**	**1.3**	**0.6**	**1.1**	**1.2**	

Data from Dean Lee Research Station, Alexandria, LA. Ronnie Levy, Boyd Padgett.

Cultural and Site Information: Planted 11-14-15. PowerFlex (2 fl oz/A + ¼% NIS v/v) 12-11-15. Fertilized (150# 33-0-0-12) 1-6-16. Fertilized (120# 46-0-0-0) 2-12-16. Karate (2 fl oz/A) 2-26-16. Very wet winter resulted in some plots with poor stands. Substantial bird damage on early -maturing plots.

Leaf Blotch is mostly Septoria nodorum blotch but has some other causes.

Bacteria is bacterial streak (Xanthomonas).

Seed Quality is a visual rating of seed plumpness and brightness and visual blemishes with 0 = perfect and 9 = very poor.

Fus Hbt is a visual estimate of the Fusarium Headblight Infection on the heads, on a 0 = none to 9 = severe scale. Rated in mid to late grain fill.

FDK is a visual estimate of the Fusarium Damaged Kernels on a 0 = none to 9 = severe scale. FDK can contribute to poor SQ rating.

DON is parts per million of deoxynivalenol mycotoxin in grain.

Table 13. Wheat performance trial at St. Joseph for 2016.

Brand / variety	Grain Yield 2016	Grain Yield 2-year	Test Wt	Head Day	Plant Ht	Lod Score	Leaf Rust	Stripe rust	Septoria	Bacteria	FDK	Seed Qual
	bu/a		lbs/bu	of yr	in	0-9	%	%	0-9	0-9	0-9	0-9
LA01110D-150-241	75.5	61.5	56.0	98	41	0.0	0	7	1.0	0.0	3.5	3.5
DELTA GROW 3500	**59.5**	**57.6**	**55.1**	**94**	**31**	**3.0**	**0**	**3**	**3.5**	**1.5**	**1.0**	**3.5**
PIONEER 26R41	**39.9**	**57.2**	**50.5**	**106**	**37**	**3.5**	**8**	**0**	**1.5**	**0.0**	**3.5**	**5.0**
AGS 2055	**65.8**	**56.3**	**50.3**	**100**	**41**	**1.5**	**0**	**0**	**2.5**	**3.5**	**5.5**	**5.5**
AGS 2038	**62.1**	**56.2**	**53.3**	**100**	**41**	**0.0**	**0**	**1**	**2.0**	**1.0**	**3.5**	**5.0**
LA01110D150-NT	65.8	55.8	54.5	96	38	0.0	0	13	3.0	0.0	3.0	3.5
AGS 2040	**63.7**	**54.2**	**55.5**	**95**	**41**	**0.5**	**0**	**0**	**3.5**	**6.0**	**1.0**	**3.5**
AR01040-4-1	55.7	52.6	51.3	98	43	0.0	2	8	3.5	0.0	1.5	4.5
LANC8170-41-2	55.2	51.8	54.0	97	35	2.8	0	1	3.0	1.0	1.5	4.0
JAMESTOWN	**42.3**	**50.9**	**55.7**	**93**	**34**	**7.3**	**4**	**0**	**3.0**	**3.0**	**1.0**	**4.0**
HILLIARD	**48.1**	**50.8**	**48.1**	**101**	**40**	**2.0**	**0**	**0**	**2.5**	**2.5**	**3.5**	**6.0**
SYNGENTA SY CYPRESS	**50.5**	**50.5**	**51.4**	**91**	**35**	**3.8**	**3**	**23**	**2.5**	**0.0**	**1.0**	**4.0**
LA01110D-150-625	58.9	49.9	57.9	98	38	2.0	0	0	2.0	0.0	1.5	3.0
AGS 2035	**47.3**	**49.8**	**50.8**	**94**	**39**	**1.3**	**0**	**23**	**3.5**	**2.0**	**3.5**	**4.5**
USG 3120	**54.7**	**49.7**	**53.0**	**90**	**38**	**0.0**	**0**	**18**	**2.5**	**0.0**	**1.5**	**4.0**
PIONEER 26R94	**62.4**	**48.4**	**55.5**	**96**	**36**	**0.0**	**0**	**0**	**2.0**	**2.0**	**2.0**	**3.5**
GO WHEAT 2056	**27.7**	**47.8**	**41.7**	**108**	**38**	**1.5**	**7**	**0**	**2.0**	**0.0**	**3.0**	**8.0**
PIONEER 26R53	**25.7**	**47.3**	**45.6**	**103**	**41**	**8.3**	**6**	**0**	**2.0**	**0.5**	**2.0**	**6.0**
PROGENY 870	**30.1**	**47.0**	**41.9**	**107**	**41**	**1.0**	**7**	**0**	**2.5**	**0.0**	**3.5**	**7.0**
DYNA-GRO SAVOY	**53.6**	**46.9**	**55.1**	**90**	**36**	**1.5**	**0**	**8**	**3.5**	**3.5**	**1.0**	**4.0**
DIXIE MCALISTER	**31.5**	**46.6**	**44.5**	**106**	**37**	**0.8**	**5**	**0**	**2.5**	**0.0**	**2.5**	**6.5**
SYNGENTA SY VIPER	**43.5**	**46.4**	**49.4**	**104**	**42**	**5.3**	**4**	**0**	**2.5**	**0.0**	**1.5**	**5.0**
AGRIMAXX 446	**20.7**	**44.4**	**45.4**	**108**	**36**	**4.0**	**15**	**8**	**2.0**	**0.0**	**2.5**	**7.0**
DYNA-GRO 9171	**26.2**	**43.4**	**42.3**	**105**	**35**	**1.5**	**8**	**0**	**2.0**	**0.0**	**2.5**	**7.0**
DELTA GROW 2700	**23.5**	**42.8**	**43.9**	**108**	**37**	**3.8**	**18**	**0**	**2.0**	**0.0**	**2.5**	**7.0**
USG 3201	**21.4**	**42.8**	**42.9**	**106**	**34**	**6.8**	**15**	**0**	**2.0**	**0.0**	**3.0**	**7.0**
AGRIMAXX 413	**29.9**	**42.5**	**43.3**	**104**	**36**	**1.5**	**9**	**0**	**2.5**	**0.0**	**3.0**	**7.0**
DELTA GROW 7500	**32.3**	**41.8**	**43.0**	**105**	**40**	**1.3**	**5**	**0**	**2.0**	**0.0**	**3.0**	**7.0**
AGRIMAXX 415	**23.8**	**41.7**	**44.8**	**104**	**39**	**5.5**	**10**	**0**	**2.0**	**0.0**	**2.5**	**6.5**
USG 3404	**16.8**	**41.4**	**44.0**	**110**	**39**	**5.3**	**18**	**0**	**2.0**	**0.0**	**2.0**	**7.0**
AGRIMAXX 444	**23.2**	**41.0**	**42.8**	**107**	**40**	**4.3**	**10**	**0**	**2.0**	**0.0**	**2.0**	**6.0**
GA-04434-12LE28	39.4	40.9	46.2	96	38	4.5	1	13	3.0	0.0	4.0	5.5
USG 3013	**7.4**	**40.4**		**108**	**34**	**7.8**	**35**	**0**	**1.5**	**0.0**	**3.0**	**7.0**
PIONEER 26R59	**26.3**	**39.3**	**41.7**	**103**	**36**	**4.0**	**7**	**0**	**1.5**	**0.0**	**2.5**	**6.5**
DYNA-GRO 9522	**20.5**	**38.4**	**43.0**	**107**	**36**	**6.0**	**18**	**0**	**2.0**	**1.0**	**1.5**	**7.0**
SYNGENTA SY HARRISON	**19.8**	**37.5**	**41.8**	**106**	**36**	**4.3**	**9**	**0**	**2.5**	**0.0**	**2.5**	**7.5**
DIXIE EXTREME	**11.6**	**30.2**		**107**	**39**	**8.0**	**10**	**20**	**2.0**	**0.0**	**3.0**	**7.5**
PGX 15-12	79.2		57.5	99	39	0.0	0	1	1.5	0.0	1.0	3.0
LA01110D150- FTH	66.2		56.3	96	38	0.0	0	13	3.0	0.0	2.5	3.5
VA12W-72	63.5		51.0	99	39	1.5	0	0	2.5	0.0	2.0	4.0
GA051102-13LE43	61.6		55.3	99	41	0.0	0	0	2.0	4.0	4.5	3.0
GA061349-13LE31	61.0		53.8	98	38	0.8	0	2	2.0	1.0	4.5	4.0
LA08090C-9-2	60.3		55.1	99	38	0.5	0	2	2.0	0.0	3.5	4.5
GA061349-13LE29	60.2		51.5	100	37	1.0	1	0	2.5	0.0	5.0	5.0
LA09011UB-2	58.9		55.4	94	31	4.0	0	0	3.0	6.0	2.0	4.0

Table 13. Wheat performance trial at St. Joseph for 2016.

Brand / variety	Grain Yield 2016	Grain Yield 2-year	Test Wt	Head Day	Plant Ht	Lod Score	Leaf Rust	Stripe rust	Septoria	Bacteria	FDK	Seed Qual
	bu/a		lbs/bu	of yr	in	0-9	%	%	0-9	0-9	0-9	0-9
LA08115C-30	53.7		54.9	93	33	0.0	1	0	6.5	5.5	2.5	4.0
LA03200E-2	52.9		53.9	96	39	2.0	1	4	2.5	2.0	2.0	4.0
DELTA GROW 1000	**49.3**		**52.7**	**109**	**39**	**4.8**	**0**	**0**	**2.5**	**0.0**	**1.0**	**4.5**
DIXIE 16-1	**49.0**		**51.8**	**110**	**35**	**3.5**	**5**	**0**	**2.0**	**0.0**	**1.5**	**4.0**
AGS 2024	**48.5**		**52.3**	**102**	**35**	**2.0**	**0**	**2**	**2.0**	**0.0**	**4.0**	**4.5**
ARMOR ARW1511	**47.0**		**52.0**	**112**	**36**	**1.8**	**0**	**0**	**2.0**	**1.0**	**1.0**	**4.0**
DYNA-GRO WX 15781	46.5		53.1	110	38	1.8	3	0	2.5	1.0	1.0	3.5
LA08095C-37	42.6		52.5	93	41	2.0	14	4	3.0	0.0	2.5	4.5
PGX 15-10	42.0		52.0	110	42	3.8	0	3	1.5	0.0	1.5	4.0
PGX 15-16	38.5		50.2	109	32	5.5	1	0	2.0	0.0	1.5	5.0
AGS 3000	**32.1**		**56.5**	**84**	**35**	**0.0**	**0**	**0**	**4.0**	**4.0**	**1.5**	**3.5**
ARMOR ARW1514	27.6		42.4	105	38	4.0	7	0	2.5	1.0	2.5	6.5
PGX 15-14	22.2		37.1	106	39	4.3	12	0	2.0	0.0	3.5	7.5
DIXIE 16-2	**21.7**		**39.2**	**106**	**33**	**3.5**	**10**	**0**	**2.0**	**1.0**	**1.5**	**5.5**
ARMOR ARW1516	**20.4**		**38.5**	**105**	**38**	**6.3**	**12**	**0**	**2.0**	**0.0**	**3.0**	**6.5**
PROGENY 243	**20.0**		**41.3**	**103**	**44**	**6.8**	**8**	**0**	**2.5**	**1.5**	**2.5**	**7.0**
AGRIMAXX EXP 1674	18.7		40.3	107	35	4.3	20	0	2.0	0.0	3.0	6.5
ARMOR ARW1521	**13.3**			**109**	**39**	**8.8**	**6**	**3**	**1.5**	**0.0**	**2.5**	**7.0**
DYNA-GRO WX 16771	10.7			111	35	8.8	9	0	2.0	0.0	3.0	7.0
PROGENY 357	**9.7**			**108**	**37**	**7.5**	**38**	**0**	**2.0**	**0.0**	**3.0**	**7.5**
DYNA-GRO 9642	**8.3**			**115**	**37**	**8.5**	**20**	**0**	**2.0**	**0.0**	**2.0**	**6.5**
Mean	**44.5**	**47.1**	**49.8**	**102**	**38**	**3.2**	**6**	**3**	**2.4**	**0.8**	**2.5**	**5.3**
CV%	**15**	**14**	**2**	**2**	**-**	**60**	**71**	**171**	**22**	**178**	**29**	**12**
LSD (0.10)	**8.0**	**NS**	**2.1**	**3.1**	**-**	**2.2**	**7**	**8**	**0.9**	**2.5**	**1.2**	**1.1**

Data from Northeast Research Station, St. Joseph, LA. Rick Mascagni, Trey Price.

Cultural and Site Information: Northeast Research Station. 1 qt/a gramoxone applied 11/24/15. Planted 11/25/15. 0.4 oz/a Finesse herbicide + NIS applied on 1/6/16. 100-0-0 as 32% liquid applied 2/5/16. 50-0-0 as 32% liquid applied on 2/29/16. Harvested

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

Lodging: 0 = none; 9 = severe.

Table 14. Wheat performance trial at Winnsboro for 2016.

Brand / variety	Grain Yield 2015 bu/a	Grain Yield 2-year bu/a	Test Wt lbs/bu	Head Day of yr	Lod Score 0-9	Leaf Rust %	Stripe Rust %	Leaf Blotch 0-9	Bact Score 0-9	Pheno type 0-9	FDK 0-9	Seed Qual 0-9
DELTA GROW 3500	**74.9**	**66.4**	**56.0**	**91**	**0.0**	**0**	**2**	**2.3**	**0.0**	**3.5**	**3.0**	**3.0**
LANC8170-41-2	62.3	62.7	54.5	95	0.0	1	0	1.8	0.0	4.5	1.5	3.0
SYNGENTA SY VIPER	**52.0**	**62.6**	**50.0**	**99**	**2.0**	**5**	**0**	**1.5**	**0.0**	**4.0**	**3.0**	**4.0**
HILLIARD	**62.0**	**62.5**	**49.4**	**101**	**0.0**	**0**	**0**	**1.5**	**0.0**	**4.0**	**4.0**	**4.5**
LA01110D150- FOOTHOLD	64.1	60.0	52.4	90	0.0	0	8	3.3	0.0	4.0	3.0	3.5
LA01110D-150-241	72.3	58.7	53.3	92	0.0	0	1	2.3	0.0	3.5	3.0	3.5
PIONEER 26R41	**51.2**	**58.0**	**47.9**	**104**	**0.0**	**4**	**0**	**1.5**	**0.0**	**5.0**	**4.0**	**5.0**
LA03200E-2	59.9	57.0	53.8	91	0.0	4	0	3.0	0.0	4.0	3.0	3.5
AR01040-4-1	65.3	56.9	51.9	89	0.0	2	1	1.8	1.0	4.0	2.5	3.5
AGS 2038	**68.7**	**56.1**	**51.6**	**92**	**0.0**	**0**	**7**	**2.3**	**0.0**	**4.0**	**3.0**	**4.5**
PIONEER 26R94	**63.8**	**56.1**	**52.0**	**89**	**0.0**	**0**	**0**	**2.3**	**1.0**	**3.5**	**2.5**	**3.0**
DYNA-GRO SAVOY	**59.9**	**54.9**	**54.4**	**83**	**0.0**	**0**	**0**	**6.0**	**6.5**	**7.0**	**2.5**	**4.5**
SY CYPRESS	**59.9**	**52.4**	**54.1**	**83**	**0.0**	**7**	**14**	**3.0**	**0.0**	**5.5**	**2.0**	**3.5**
PIONEER 26R59	**40.1**	**52.0**	**40.4**	**101**	**1.3**	**7**	**0**	**1.0**	**0.0**	**5.0**	**4.0**	**6.0**
JAMESTOWN	**54.3**	**50.5**	**55.6**	**90**	**1.0**	**0**	**4**	**3.8**	**0.0**	**4.5**	**1.0**	**3.5**
GA-04434-12LE28	59.5	50.1	50.1	91	0.0	2	2	2.8	0.0	4.0	4.0	4.5
DELTA GROW 7500	**40.7**	**49.3**	**44.2**	**102**	**0.0**	**4**	**0**	**1.3**	**0.0**	**4.5**	**4.0**	**6.0**
DIXIE MCALISTER	**38.6**	**49.3**	**42.0**	**103**	**0.0**	**7**	**0**	**1.5**	**0.0**	**5.5**	**3.5**	**6.0**
DYNA-GRO 9171	**38.4**	**49.2**	**41.2**	**102**	**0.0**	**7**	**0**	**1.8**	**0.0**	**5.0**	**6.0**	**6.0**
USG 3120	**58.2**	**48.9**	**52.9**	**84**	**0.0**	**0**	**14**	**3.3**	**0.0**	**5.0**	**3.0**	**3.0**
PROGENY 870	**38.4**	**48.8**	**42.0**	**103**	**0.0**	**4**	**0**	**1.5**	**0.0**	**5.5**	**5.0**	**7.0**
USG 3404	**35.4**	**48.6**	**43.2**	**104**	**1.0**	**9**	**2**	**1.8**	**0.0**	**6.0**	**3.0**	**5.5**
USG 3201	**40.5**	**48.2**	**45.0**	**102**	**1.8**	**7**	**0**	**1.5**	**0.0**	**5.0**	**4.0**	**6.0**
GO WHEAT 2056	**31.7**	**47.8**	**43.8**	**103**	**0.0**	**6**	**0**	**2.0**	**0.0**	**5.0**	**3.0**	**6.0**
AGRIMAXX 413	**37.0**	**47.6**	**43.1**	**104**	**0.0**	**6**	**0**	**1.5**	**0.0**	**5.5**	**4.0**	**6.0**
DELTA GROW 2700	**34.2**	**47.5**	**44.4**	**104**	**0.8**	**7**	**1**	**2.0**	**0.0**	**5.5**	**2.5**	**5.5**
AGS 2035	**53.1**	**47.5**	**49.4**	**84**	**0.0**	**2**	**21**	**3.5**	**0.0**	**5.5**	**4.0**	**4.5**
AGS 2055	**56.9**	**47.5**	**43.7**	**96**	**0.0**	**0**	**0**	**2.3**	**0.0**	**3.0**	**7.0**	**7.0**
AGRIMAXX 415	**38.6**	**47.4**	**43.4**	**101**	**1.8**	**8**	**0**	**1.5**	**0.0**	**5.5**	**5.5**	**6.5**
PIONEER 26R53	**35.9**	**46.7**	**45.1**	**102**	**0.0**	**6**	**0**	**2.0**	**0.0**	**5.5**	**3.0**	**5.0**
DYNA-GRO 9522	**38.1**	**46.4**	**44.4**	**104**	**1.5**	**21**	**0**	**2.0**	**0.0**	**5.0**	**3.5**	**6.5**
AGS 2040	**54.6**	**46.0**	**54.3**	**84**	**0.0**	**0**	**0**	**5.0**	**5.5**	**5.0**	**1.5**	**3.0**
AGRIMAXX 446	**32.8**	**45.9**	**43.7**	**102**	**2.0**	**31**	**0**	**1.8**	**0.0**	**6.5**	**4.0**	**6.0**
AGRIMAXX 444	**34.2**	**45.4**	**43.4**	**104**	**1.0**	**10**	**0**	**1.5**	**0.0**	**5.5**	**3.5**	**5.5**
USG 3013	**20.0**	**41.5**	**38.3**	**104**	**7.8**	**44**	**0**	**1.3**	**0.0**	**6.5**	**4.0**	**6.5**
SY HARRISON	**29.9**	**40.2**	**37.0**	**104**	**2.5**	**29**	**0**	**1.8**	**0.0**	**6.0**	**4.5**	**7.0**
DIXIE EXTREME	**21.6**	**29.8**	**40.4**	**104**	**7.0**	**48**	**0**	**1.5**	**0.0**	**6.5**	**4.0**	**7.0**
LA09011UB-2	68.8		56.1	92	0.0	1	0	2.5	0.0	4.5	2.5	3.5
VA12W-72	68.8		51.0	93	0.0	0	0	1.5	0.0	4.0	3.0	4.0
AGS 2024	**68.0**		**51.6**	**91**	**0.0**	**0**	**0**	**4.0**	**0.0**	**4.0**	**3.0**	**4.0**
PGX 15-12	67.7		55.0	95	0.0	1	0	1.5	0.0	4.5	1.5	2.5
LA01110D-150-625	66.7		54.9	92	0.8	0	1	2.3	0.0	4.0	1.5	3.0
LA08090C-9-2	66.4		53.2	92	0.0	0	2	2.0	0.0	3.0	2.0	2.5
GA061349-13LE29	65.2		49.0	97	0.0	0	0	1.3	0.0	3.5	5.5	5.5
LA01110D150-NT	64.4		52.5	90	0.0	0	11	3.5	0.0	5.0	3.5	3.5

Table 14. Wheat performance trial at Winnsboro for 2016.

Brand / variety	Grain Yield 2015 bu/a	Grain Yield 2-year bu/a	Test Wt lbs/bu	Head Day of yr	Lod Score 0-9	Leaf Rust %	Stripe Rust %	Leaf Blotch 0-9	Bact Score 0-9	Pheno type 0-9	FDK 0-9	Seed Qual 0-9
DELTA GROW 1000	**63.5**		**52.5**	**104**	**0.0**	**1**	**0**	**1.0**	**0.5**	**4.5**	**2.0**	**3.0**
PGX 15-10	62.4		52.6	105	0.0	0	0	1.3	0.0	3.5	2.0	3.0
LA08115C-30	61.8		51.5	86	0.0	1	1	4.3	2.0	5.5	3.5	4.0
AGS 3000	**61.5**		**56.8**	**81**	**0.0**	**1**	**1**	**5.3**	**1.5**	**5.0**	**2.0**	**3.5**
GA061349-13LE31	60.9		47.8	94	0.0	0	0	2.3	0.0	4.5	6.0	5.0
GA051102-13LE43	58.8		51.4	97	0.0	0	0	2.3	0.0	4.0	5.5	4.5
DYNA-GRO WX 15781	57.8		51.7	104	0.0	0	0	1.0	1.0	4.0	2.0	4.0
PGX 15-16	56.9		52.3	103	0.0	0	0	1.3	0.0	5.0	2.5	3.5
ARMOR ARW1511	56.4		51.7	104	0.0	0	0	1.0	0.5	4.0	1.0	3.0
LA08095C-37	54.5		51.7	86	0.0	8	0	3.0	0.0	5.5	3.0	3.5
DIXIE 16-1	**53.3**		**50.0**	**104**	**0.0**	**0**	**0**	**1.3**	**0.0**	**4.0**	**2.0**	**4.0**
PROGENY 243	**37.3**		**42.2**	**101**	**2.0**	**19**	**1**	**1.8**	**0.0**	**6.5**	**3.5**	**5.0**
ARMOR ARW1516	**32.7**		**37.9**	**103**	**2.3**	**11**	**0**	**2.0**	**0.0**	**5.5**	**5.5**	**6.5**
ARMOR ARW1521	**32.2**		**42.7**	**104**	**2.3**	**11**	**0**	**1.5**	**0.0**	**6.0**	**3.0**	**5.5**
AGRIMAXX EXP 1674	30.6		42.7	102	2.0	14	0	1.5	0.0	6.0	4.0	5.5
DYNA-GRO WX 16771	30.5		45.6	107	3.0	8	0	1.8	0.0	5.5	2.5	5.5
PGX 15-14	28.9		40.6	103	2.8	9	0	1.3	0.0	5.5	3.5	6.0
DIXIE 16-2	**26.7**		**41.6**	**104**	**2.0**	**15**	**1**	**1.5**	**0.0**	**6.0**	**3.5**	**6.0**
DYNA-GRO 9642	**20.6**		**42.2**	**109**	**7.8**	**21**	**0**	**1.8**	**0.0**	**6.5**	**3.0**	**7.0**
ARMOR ARW1514	18.8		39.0	104	2.3	11	0	1.5	0.0	5.0	4.0	6.0
PROGENY 357	**17.3**			**104**	**7.0**	**57**	**0**	**1.3**	**0.0**	**7.0**	**4.0**	**7.5**
Mean	**49.1**	**51.0**	**48.1**	**97.3**	**1.0**	**7**	**1**	**2.1**	**0.3**	**4.9**	**3.3**	**4.8**
CV	**14**	**12**	**3**	**2**	**154**	**101**	**125**	**27**	**211**	**12**	**25**	**16**
LSD	**8.2**	**NS**	**2.9**	**3**	**1.8**	**10**	**3**	**1.0**	**1.0**	**1.0**	**1.4**	**1.2**

Data from Macon Ridge Research Station, Winnsboro, LA. Rick Mascagni, Trey Price, Myra Purvis, John Stapp, Hunter Pruitt, Steve Harrison, Kelly Arceneaux, Katie McCarthy, and Ally Lunos.

Cultural and Site Information: Planted 11-15-15 . Harvested 5-25-16. 50# N as aliquid 30-0-0=2 on 2-5-16 plus 50# on 2-26-16.topdress application . 3.5 oz/acre of Poweflex herbicide on 12-10-15. Very wet winter resulted in some plots with poor stands. Heavy spring rains caused high levels of foliar disease and led to premature senescence of some varieites, particularly later-headng ones. **23 of the 27 highest-yielding entries headed earlier than the test mean**.

NS indicates that variety mean difference were not statistically significant. There was a very large variety X year interaction. This inidcates that variety rankings were reversed across 2015 and 2016, thus preventing 2-year mean yield differences from being significant at both St. Jospeh and Winnsboro.

Test Weights are very low for some entries. These are hand-run test weights and are double checked when the low values were noticed. Scabby kernles and poor grain fill due to foliar dieases undoubtedly contributed.

Seed Qualtiy is a visual rating of seed plumpness and brightness and visual blemishes with 0 = perfect and 9 = very poor.

FDK is a visual estimate of the Fusarium Damaged Kernels on a 0 = none to 9 = severe scale. FDK can contribute to poor SQ rating.

Leaf Blotch is mostly Septoria nodorum botch but has some other causes.

Bacteria is bacterial streak (Xanthomonas).

PHE score is a visual 'PHEnotype' rating. It is overall appearance of the plot on a 0-9 scale where a lower score indicates a prettier plot.

Table 15. Performance trial across Louisiana for 2016.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lodging 0-9	Stripe Rust %	Leaf Rust %	Stem Rust 0-9	Fus H Blight 0-9	Pheno type 0-9
LA01110D-150-241	54.5	54.5	94	36	1.6	4	0	0.6	0.3	3.9
DELTA GROW 3500	**51.7**	**55.0**	**92**	**33**	**2.9**	**2**	**0**	**0.0**	**0.5**	**3.4**
LA01110D-150-625	50.9	55.9	90	35	2.8	0	1	0.0	0.4	4.4
LA03200E-2	50.6	55.4	89	33	2.3	2	22	0.3	1.2	4.6
LA01110D150-NT	50.0	54.5	90	35	1.8	12	2	2.8	0.8	5.7
LA01110D150-FTH	49.9	54.6	91	35	2.0	10	2	1.8	0.8	5.3
VA12W-72	49.3	51.3	96	32	1.7	0	3	0.0	0.3	3.9
AGS 2040	**48.6**	**56.0**	**85**	**33**	**1.6**	**0**	**0**	**0.1**	**0.5**	**4.4**
AGS 2038	**48.6**	**53.4**	**91**	**36**	**1.8**	**4**	**0**	**0.1**	**1.3**	**4.3**
PIONEER 26R94	**48.5**	**54.4**	**89**	**35**	**1.9**	**0**	**0**	**0.0**	**1.1**	**3.8**
LA09011UB-2	48.2	55.5	93	31	3.2	0	1	0.1	0.1	4.6
PGX 15-12	48.1	53.5	97	32	1.5	1	0	0.2	0.0	4.8
AGS 2024	**48.1**	**53.9**	**90**	**31**	**2.0**	**1**	**0**	**0.4**	**1.6**	**4.2**
AGS 2035	**46.8**	**53.9**	**86**	**35**	**1.9**	**22**	**0**	**0.2**	**0.7**	**4.7**
LA08090C-9-2	46.6	54.3	92	34	1.3	2	0	0.0	0.3	3.7
JAMESTOWN	**46.5**	**56.5**	**88**	**31**	**3.3**	**2**	**2**	**0.0**	**0.0**	**4.2**
AGS 2055	**45.7**	**50.1**	**98**	**35**	**1.9**	**0**	**0**	**0.3**	**0.0**	**3.8**
LANC8170-41-2	45.7	55.1	95	32	1.6	1	10	0.1	0.1	5.0
AR01040-4-1	44.7	52.8	89	37	1.7	5	6	0.2	0.1	5.1
GA061349-13LE31	44.7	52.9	95	33	1.1	1	0	0.0	0.0	3.9
GA061349-13LE29	44.1	50.9	99	32	2.0	0	0	0.0	0.0	4.1
LA08115C-30	43.9	53.6	86	33	1.7	0	7	3.4	7.9	6.5
USG 3120	**43.7**	**54.3**	**84**	**35**	**1.3**	**16**	**1**	**0.4**	**1.1**	**4.8**
GA051102-13LE43	43.4	53.4	97	34	1.6	0	0	0.0	0.0	4.2
SY CYPRESS	**43.2**	**54.1**	**85**	**31**	**2.7**	**18**	**14**	**0.1**	**0.7**	**5.8**
DYNA-GRO SAVOY	**41.9**	**54.6**	**85**	**32**	**1.9**	**4**	**0**	**0.0**	**2.1**	**5.2**
GA-04434-12LE28	40.2	52.7	93	34	2.3	7	1	0.0	0.6	4.2
LA08095C-37	40.0	54.8	86	36	2.2	2	12	0.0	1.6	5.2
HILLIARD	**39.8**	**50.6**	**99**	**34**	**1.8**	**0**	**2**	**0.0**	**0.0**	**4.7**
AGS 3000	**39.2**	**56.8**	**79**	**33**	**2.0**	**0**	**0**	**0.0**	**0.5**	**3.9**
DELTA GROW 1000	**34.8**	**50.2**	**106**	**34**	**2.9**	**0**	**5**	**1.6**	**0.0**	**6.1**
PGX 15-10	32.0	49.1	108	34	2.6	2	4	1.1	0.0	5.8
DYNA-GRO WX 15781	31.4	49.0	107	34	2.2	0	4	1.0	0.0	5.9
ARMOR ARW1511	**31.1**	**48.5**	**108**	**34**	**2.3**	**0**	**3**	**0.9**	**0.0**	**5.8**
PIONEER 26R41	**30.2**	**48.1**	**103**	**32**	**2.1**	**0**	**8**	**2.9**	**0.0**	**6.6**
DIXIE 16-1	**29.6**	**48.5**	**106**	**34**	**2.6**	**0**	**4**	**1.3**	**0.0**	**6.0**
PGX 15-16	28.9	47.9	107	29	3.2	0	3	0.2	0.0	6.3
SY VIPER	**25.0**	**47.7**	**102**	**35**	**4.6**	**0**	**31**	**0.0**	**0.1**	**5.7**
PROGENY 243	**21.6**	**46.8**	**101**	**35**	**5.1**	**1**	**17**	**0.0**	**0.0**	**6.8**
PROGENY 870	**20.5**	**45.7**	**105**	**31**	**2.4**	**0**	**13**	**1.1**	**0.0**	**6.3**
PGX 15-14	17.2	41.6	103	31	4.3	0	29	2.1	0.0	6.7
ARMOR ARW1516	**16.5**	**43.9**	**103**	**31**	**4.9**	**0**	**25**	**1.7**	**0.0**	**6.3**
DIXIE 16-2	**15.5**	**41.9**	**104**	**31**	**3.9**	**1**	**25**	**2.0**	**0.0**	**7.0**
ARMOR ARW1521	**15.4**	**46.9**	**107**	**31**	**4.6**	**2**	**17**	**1.0**	**0.0**	**6.7**
ARMOR ARW1514	**15.3**	**40.8**	**103**	**31**	**4.8**	**0**	**29**	**2.3**	**0.0**	**6.8**
AGRIMAXX EXP 1674	14.9	42.0	105	30	4.7	0	32	2.6	0.0	6.8
DYNA-GRO WX 16771	14.4	47.9	108	31	5.4	0	19	1.7	0.0	6.5
USG 3013	**9.9**	**45.1**	**106**	**32**	**6.8**	**0**	**56**	**1.3**	**0.0**	**7.3**
DYNA-GRO 9642	**9.8**	**47.7**	**111**	**28**	**7.6**	**0**	**26**	**0.6**	**0.0**	**6.8**
PROGENY 357	**8.6**	**51.1**	**106**	**31**	**6.7**	**0**	**53**	**1.2**	**0.0**	**7.1**

Table 15. Performance trial across Louisiana for 2016.

Brand / variety	Grain Yield	Test Wt	Head Day	Plant Ht	Lodging	Stripe Rust	Leaf Rust	Stem Rust	Fus H Blight	Pheno type
	bu/a	lbs/bu	of yr	in	0-9	%	%	0-9	0-9	0-9
Mean	**36.8**	**52.1**	**96.2**	**33**	**2.9**	**2**	**10**	**0.7**	**0.5**	**5.3**
CV	**18**	**4**	**2**	**2**	**52**	**106**	**89**	**154**	**341**	**11**
LSD (0.10)	**8.4**	**3.1**	**2.2**	**2**	**1.3**	**3**	**12**	**1.3**	**1.9**	**1.2**

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

Data from Alexandria, Baton Rouge, Crowley, Jeanerette, St. Joseph, and Winnsboro, LA.

Table 16. Performance trial across Louisiana for two years, 2015 and 2016.

Brand / variety	Grain Yield	Test Wt	Head Day	Plant Ht	Lod Score	Stripe Rust	Leaf Rust	Stem Rust	Fus H Blight	Pheno type
	bu/a	lbs/bu	of yr	in	0-9	%	%	0-9	0-9	0-9
DELTA GROW 3500	**50.5**	**52.5**	**92**	**33**	**2.7**	**1**	**0**	**0.0**	**2.7**	**3.6**
LA01110D-150-241	50.5	52.0	94	36	1.6	1	0	0.6	2.6	4.0
LA03200E-2	49.9	53.0	91	34	2.1	2	20	0.3	2.9	4.5
LA01110D-150-625	49.3	53.6	91	36	2.5	0	0	0.0	2.4	4.4
AGS 2040	**46.4**	**54.2**	**87**	**33**	**1.6**	**1**	**0**	**0.1**	**2.3**	**4.6**
AGS 2038	**45.8**	**51.6**	**93**	**37**	**1.6**	**2**	**0**	**0.1**	**2.8**	**4.1**
JAMESTOWN	**45.4**	**54.0**	**89**	**32**	**2.8**	**2**	**2**	**0.0**	**1.7**	**4.1**
AGS 2035	**45.4**	**52.3**	**89**	**36**	**1.6**	**17**	**0**	**0.2**	**2.7**	**4.8**
PIONEER 26R94	**44.7**	**52.3**	**90**	**36**	**1.8**	**0**	**0**	**0.0**	**2.9**	**3.9**
LANC8170-41-2	44.3	53.1	95	32	1.2	0	7	0.1	1.2	4.8
AR01040-4-1	43.3	51.4	92	38	1.9	1	4	0.2	1.9	4.8
DYNA-GRO SAVOY	**43.0**	**52.0**	**86**	**32**	**2.2**	**1**	**0**	**0.0**	**3.5**	**5.2**
SY CYPRESS	**42.1**	**51.7**	**87**	**31**	**2.8**	**15**	**12**	**0.1**	**2.2**	**5.8**
USG 3120	**41.6**	**51.6**	**87**	**35**	**1.7**	**15**	**1**	**0.4**	**3.1**	**4.9**
HILLIARD	**41.2**	**49.9**	**99**	**34**	**1.9**	**0**	**2**	**0.0**	**1.2**	**4.5**
GA-04434-12LE28	41.0	50.6	93	33	2.2	2	1	0.0	3.0	4.4
AGS 2055	**41.0**	**48.6**	**98**	**35**	**2.6**	**0**	**0**	**0.3**	**2.8**	**3.5**
PIONEER 26R41	**39.3**	**49.3**	**102**	**32**	**2.0**	**0**	**6**	**2.9**	**0.8**	**5.8**
SY VIPER	**33.3**	**48.5**	**99**	**36**	**4.2**	**0**	**25**	**0.0**	**1.6**	**5.3**
PROGENY 870	**30.1**	**47.3**	**103**	**31**	**2.2**	**0**	**13**	**1.1**	**1.1**	**5.7**
USG 3013	**29.7**	**49.5**	**102**	**31**	**4.9**	**0**	**38**	**1.3**	**1.1**	**6.3**
Mean	**42.8**	**51.5**	**93**	**34.0**	**2.3**	**3**	**6**	**0.4**	**2.2**	**4.7**
CV	**15**	**5**	**2**	**5**	**58**	**113**	**129**	**244**	**43**	**14**
LSD (0.10)	**7.9**	**1.9**	**2**	**1.2**	**1.0**	**7**	**8**	**0.9**	**0.9**	**1.1**

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

Data from 2016 Alexandria, Baton Rouge, Crowley, Jeanerette, St. Joseph, and Winnsboro, LA; and 2015 Bossier City, CR, JE, SJ, and WN.

Table 17. Oat Variety Trial at Baton Rouge, LA 2016.

DESIG	Yield	Test Weight	Seed Quality	Leafi-ness	Growth Habit	Winter Stress	Head Day	Lod Score	Crown Rust	Stem Rust	Pheno-type
	bu/A	lb/bu	0-9	0-9	0-9	0-9	of yr	0-9	%	0-9	0-9
LA08085BS-T2	104.4	34.5	4.0	5.1	4.3	3.3	88	7.7	0	3.0	4.0
LA07007SBSBSB-18	97.7	31.4	4.3	4.6	4.5	3.7	88	6.0	0	3.0	3.8
LA06059SBSBSBSB-4-S1	82.4	31.5	5.0	4.4	5.8	5.3	89	8.0	3	1.0	4.3
LA08085SS-T3	82.2	30.1	4.0	5.4	3.7	5.7	89	8.0	0	2.0	3.8
HORIZON 270	**82.1**	**27.1**	**4.7**	**4.5**	**4.3**	**2.3**	**88**	**5.7**	**4**	**0.0**	**4.0**
LA08084SBSBS-15	78.9	30.7	4.7	4.5	4.5	5.7	89	6.0	0	4.0	3.8
TX07CS2257	77.3	29.3	4.7	4.8	5.7	4.3	88	7.3	3	2.0	4.0
LA07007SBSBSB-24	75.3	30.6	4.7	4.3	4.0	3.0	86	6.7	0	2.0	3.5
TX09CS1029	75.0	28.4	4.0	5.2	5.5	2.7	92	6.7	6	0.0	3.8
LA09066SBS-U3	74.7	25.1	5.7	3.4	4.0	6.0	84	7.0	0	3.0	5.5
TX07CS1948	68.7	26.2	4.3	5.6	7.0	2.7	97	7.7	1	2.0	4.0
LA09045SBS-U3	67.3	24.3	6.0	4.9	3.7	5.0	89	6.7	0	1.0	4.8
TX09CS1112	67.0	21.4	4.7	4.5	5.3	3.0	94	5.0	2	1.0	5.5
LA02065SBSBSBSB-88	65.5	29.3	4.7	5.5	5.8	3.0	90	7.0	0	3.0	4.5
LA07059SBSBSB-44	65.0	30.7	5.3	3.8	4.5	5.3	84	5.7	0	1.0	4.3
TX09CS049	63.5	22.7	4.3	5.9	6.7	3.3	100	7.3	2	1.0	4.8
FL0720-R6	**63.2**	**26.5**	**4.0**	**5.7**	**4.5**	**4.7**	**98**	**6.3**	**0**	**1.0**	**4.0**
LA06063SBSB-S1	60.7	30.1	5.3	4.3	4.2	5.7	84	4.3	3	0.0	4.5
LA09092SBS-U1	50.2	29.6	4.7	4.1	3.2	5.7	83	4.0	0	2.0	4.0
HORIZON 306	**49.1**	**22.3**	**5.3**	**5.5**	**5.2**	**4.3**	**101**	**7.0**	**9**	**3.0**	**4.8**
LA99016	**47.0**	**27.1**	**4.7**	**5.2**	**6.0**	**4.7**	**97**	**5.3**	**4**	**0.0**	**4.0**
NC12-3578	37.9	20.9	5.0	5.4	6.3	5.3	96	6.3	23	0.0	5.3
NC12-3447	34.0	16.7	7.0	5.7	6.0	5.0	93	7.7	25		5.0
NC12-3753	24.4	17.3	6.7	5.1	6.3	6.0	92	8.7	75		5.5
BROOKS	**6.7**	**27.1**	**7.7**	**4.9**	**4.8**	**5.3**	**97**	**9.0**	**100**		**7.3**
Mean	**64.0**	**26.9**	**5.0**	**4.9**	**5.0**	**4.3**	**91**	**6.7**	**10**	**1.6**	**4.5**
CV (%)	**20**	**5**	**13**	**10**	**9**	**15**	**1**	**16**	**53**	**-**	**11**
LSD (0.05)	**20.5**	**2.5**	**1.0**	**0.8**	**0.8**	**1.1**	**1.7**	**1.7**	**11**	**-**	**1.1**

Wint Stress 0 = highly stressed, complete loss of chlorophyll. 9 = None, green and lush.

Winter Growth Habit 0 = very early spring-like; 9 = very late winter/prostrate.

Leafiness 0 = poor leafiness/forage; 9 = excellent forage potential/very leafy.

Stem Rust Stem Rust came in very late and only 1 rep was rated. Some entries could not be scored.

PHEnotype General appearance (vigor, color, tillering, etc). Average of overal rating in winter and spring. 0 = excellent, 9 = poor.

TEST 2 reps, 5' x 14' harvested
Planted 11/29/2015.
~35-0-0 Flown on in mid January. 50-0-0 topdress N as 32% liquid in late February.
Substantial lodging from storms and heavy disease (crown rust) pressure contributed to high yield CV and low yields/ test wts..
Exceptionally wet winter with prolonged periods of saturated soils during the winter months as well as heavy rains after maturity.

Cooperators Steve Harrison, Kelly Arceneaux, Katie McCarthy, Ally Lunos, Chris Roider.

Table 18. Oat Variety Trial at Winnsboro, LA 2016.

DESIG	Yield	Test Wt	Seed Qual	Growth Habit	Winter Stress	Leafi-ness	Head Day	Lod Score	Crown Rust	Stem Rust	Pheno-type
	bu/A	lb/bu	0-9	0-9	0-9	0-9	of yr	0-9	%	0-9	0-9
HORIZON 270	**103.3**	**30.7**	**4.7**	**3.5**	**5.0**	**5.2**	**88**	**1.5**	**0**	**0.5**	**4.5**
LA07007SBSBSB-18	100.9	31.4	3.7	3.5	2.5	4.7	81	0.5	0	1.0	4.8
HORIZON 306	**94.3**	**29.8**	**4.0**	**3.0**	**2.5**	**5.5**	**90**	**3.0**	**10**	**0.5**	**4.0**
TX07CS2257	91.7	31.4	4.3	4.5	2.0	4.8	81	1.0	2	0.5	4.5
LA06059SBSBSBSB-4-S1	90.0	32.4	3.7	5.0	2.0	5.0	85	1.0	1	0.0	5.3
LA09045SBS-U3	87.3	28.2	5.3	3.5	3.0	5.5	88	3.0	2	1.0	5.0
TX07CS1948	86.7	31.3	4.0	6.5	4.0	4.8	87	2.5	0	0.5	4.8
LA07059SBSBSB-44	86.4	32.5	4.3	4.0	1.5	5.2	78	1.5	0	2.0	5.3
LA08084SBSBS-15	86.2	32.3	4.0	4.5	2.5	5.0	88	3.5	0	1.0	4.3
LA07007SBSBSB-24	85.5	28.9	4.7	3.5	3.5	4.8	82	1.5	2	1.0	4.8
LA06063SBSB-S1	82.3	34.8	3.3	3.5	2.0	4.8	81	1.5	0	0.5	5.5
LA02065SBSBSBSB-88	82.1	29.6	5.0	6.0	3.5	5.5	90	1.5	0	1.0	4.5
FL0720-R6	**81.6**	**31.5**	**3.0**	**3.5**	**2.0**	**5.7**	**90**	**1.5**	**0**	**0.5**	**4.3**
LA08085BS-T2	80.0	33.8	4.0	4.0	3.0	4.7	90	0.5	2	0.5	5.3
LA99016	**79.2**	**29.9**	**4.3**	**5.5**	**2.5**	**5.3**	**94**	**4.0**	**3**	**1.0**	**4.0**
NC12-3578	78.0	27.1	4.7	5.5	2.0	5.3	96	6.5	5	0.5	4.8
TX09CS049	77.1	30.7	3.7	6.0	4.0	4.7	102	0.5	0	0.5	5.0
LA08085SS-T3	76.9	30.6	4.0	3.5	1.5	4.8	87	1.0	0	0.5	6.0
TX09CS1029	74.2	29.9	4.3	4.5	3.0	4.8	88	1.0	0	1.0	5.5
LA09066SBS-U3	65.2	29.3	4.3	4.0	2.0	5.0	81	1.0	0	0.5	5.8
TX09CS1112	63.4	25.2	4.3	5.0	2.5	4.8	90	0.0	15	1.0	5.5
LA09092SBS-U1	57.5	33.7	3.3	4.0	3.0	5.5	80	1.0	0	0.5	5.8
NC12-3447	56.8	23.5	3.7	5.0	1.5	5.0	92	7.5	14	1.0	5.0
NC12-3753	51.6	22.8	3.3	6.0	1.5	5.2	95	7.5	28	1.0	4.8
BROOKS	**41.4**	**22.2**	**3.7**	**3.5**	**3.0**	**5.3**	**88**	**7.5**	**70**	**0.0**	**5.5**
Mean	**78.4**	**29.7**	**4.1**	**4.4**	**2.6**	**5.1**	**88**	**2.5**	**6**	**0.7**	**5.0**
CV (%)	**11**	**3**	**14**	**15**	**30**	**7**	**3**	**36**	**98**	**75**	**8**
LSD (0.05)	**11.6**	**11.6**	**0.8**	**1.2**	**1.4**	**ns**	**5**	**15.0**	**10**	**ns**	**0.7**

Winter Stress 0 = highly stressed, complete loss of chlorophyll. 9 = None, green and lush.

Winter Growth Habit 0 = very early spring-like; 9 = very late winter/prostrate.

Leafiness 0 = poor leafiness/forage; 9 = excellent forage potential/very leafy.

SDQ Seed Quality based on visual appearance: 0 = excellent and 9 = poor.

Stem Rust Stem Rust came in very late ad only 1 rep was rated. Some entries could not be scored.

PHEnotype General appearance (vigor, color, tillering, etc). Average of overal rating in winter and spring. 0 = excellent, 9 = poor.

TEST 2 reps, 5' x 13' . 2 reps, 5' x 14' harvested. Planted 11-13-15. harvested 5-22-16. 80-0-0 topdress N as 30-0-0-2 liquid. Amber herbicide.

Cooperators

Steve Harrison, Kelly Arceneaux, Katie Mccarthy, Ally Lunos, Trey Price, Hunter Pruitt, and Myra Purvis.

Table 19. Oat Variety Trials across Louisiana for 2016.

DESIG	Yield bu/A	Test Wt lb/bu	Seed Qual 0-9	Wint Stress 0-9	Grow Habit 0-9	Leaf iness of yr	Head Day 0-9	Lodg ing 0-9	Crown Rust %	Stem Rust 0-9	Pheno type 0-9
LA07007SBSBSB-18	95.4	31.4	4.0	3.2	4.1	4.6	84	3.8	0	1.0	4.3
LA08085BS-T2	92.2	34.1	4.0	3.2	4.2	4.9	89	4.8	1	0.5	4.6
HORIZON 270	**89.4**	**28.9**	**4.7**	**3.4**	**4.0**	**4.8**	**88**	**4.0**	**2**	**0.5**	**4.3**
LA06059SBSBSBSB-4-S1	82.9	32.0	4.3	4.0	5.5	4.7	87	5.2	2	0.0	4.8
TX07CS2257	81.4	30.4	4.5	3.4	5.2	4.8	85	4.8	2	0.5	4.3
LA08085SS-T3	79.6	30.3	4.0	4.0	3.6	5.2	88	5.2	0	0.5	4.9
LA08084SBSBS-15	79.4	31.5	4.3	4.4	4.5	4.7	89	5.0	0	1.0	4.0
LA07007SBSBSB-24	77.3	29.8	4.7	3.2	3.8	4.5	84	4.6	1	1.0	4.1
LA09045SBS-U3	77.3	26.3	5.7	4.2	3.6	5.2	88	5.2	1	1.0	4.9
TX07CS1948	74.9	28.7	4.2	3.2	6.8	5.3	92	5.6	0	0.5	4.4
LA07059SBSBSB-44	73.1	31.6	4.8	3.8	4.3	4.4	81	4.0	0	2.0	4.8
FL0720-R6	**72.4**	**29.0**	**3.5**	**3.6**	**4.1**	**5.7**	**94**	**4.4**	**0**	**0.5**	**4.1**
TX09CS1029	71.6	29.2	4.2	2.8	5.1	5.1	90	4.4	3	1.0	4.6
LA06063SBSB-S1	71.5	32.5	4.3	4.2	3.9	4.5	83	3.2	2	0.5	5.0
LA02065SBSBSBSB-88	71.1	29.5	4.8	3.2	5.9	5.5	90	4.8	0	1.0	4.5
LA09066SBS-U3	69.9	27.2	5.0	4.4	4.0	4.0	82	4.6	0	0.5	5.6
HORIZON 306	**69.7**	**26.8**	**4.7**	**3.6**	**4.3**	**5.5**	**96**	**5.4**	**10**	**0.5**	**4.4**
TX09CS049	67.7	26.7	4.0	3.6	6.4	5.4	101	4.6	1	0.5	4.9
TX09CS1112	65.2	23.3	4.5	2.8	5.2	4.6	92	3.0	9	1.0	5.5
LA99016	**61.2**	**28.5**	**4.5**	**3.8**	**5.8**	**5.3**	**95**	**4.8**	**3**	**1.0**	**4.0**
NC12-3578	56.4	24.0	4.8	4.0	6.0	5.4	96	6.4	14	0.5	5.0
LA09092SBS-U1	53.8	31.7	4.0	4.6	3.5	4.7	82	2.8	0	0.5	4.9
NC12-3447	44.1	20.1	5.3	3.6	5.6	5.4	93	7.6	19	1.0	5.0
NC12-3753	37.0	20.0	5.0	4.2	6.2	5.1	93	8.2	51	1.0	5.1
BROOKS	**23.8**	**23.4**	**5.7**	**4.4**	**4.3**	**5.1**	**93**	**8.4**	**85**	**0.0**	**6.4**
Mean	**69.5**	**28.3**	**4.5**	**3.7**	**4.8**	**5.0**	**89**	**5.0**	**8**	**0.7**	**4.7**
CV%	**15**	**4**	**13**	**20**	**11**	**9**	**2**	**20**	**71**	**75**	**10**
LSD (0.10)	**20.0**	**3.4**	**NS**	**NS**	**0.7**	**NS**	**5**	**2.6**	**14**	**NS**	**NS**

Data from: 2016 Baton Rouge and Winnsboro.

Winter Stress Tolerance 0 = highly stressed, complete loss of chlorophyll; 9 = None, green and lush.

Winter Growth Habit 0 - very early springlike; 9 = very late winter/prostrate.

Leafiness 0 = very poor forage potential/few leaves; 9 = excellent leafiness/forage.

Phenotype General appearance in March and April. 0 = excellent, 9 = very poor.

Correlations with Yield

CrownRust = -0.80**; LOD = -0.64*; WintStress = -0.42*; SdQual = -0.52**; TWT = -0.74**.

Table 20. Oat Variety Trials across Louisiana for two years, 2015 and 2016

DESIG	Yield	Test Wt	Seed Qual	Wint Stress	Grow Habit	Leafi-ness	Head Day	Lod Score	Crown Rust	Stem Rust	Pheno-type
	bu/A	lb/bu	0-9	0-9	0-9	of yr	0-9	0-9	%	0-9	0-9
HORIZON 270	**91.8**	**29.7**	**4.7**	**3.1**	**4.0**	**4.8**	**90**	**4.0**	**2**	**0.5**	**4.0**
LA07007SBSBSB-18	86.4	30.7	4.0	3.7	3.9	4.6	85	3.8	0	1.0	4.2
LA08085SS-T3	85.8	31.0	4.0	4.3	3.7	5.2	89	5.2	0	0.5	4.8
LA08084SBSBS-15	80.7	30.8	4.3	4.6	4.8	4.7	88	5.0	0	1.0	4.0
LA06059SBSBSBSB-4-S1	79.4	31.0	4.3	4.4	5.6	4.7	88	5.2	2	0.0	4.8
FL0720-R6	**76.2**	**30.0**	**3.5**	**4.1**	**4.4**	**5.7**	**95**	**4.4**	**0**	**0.5**	**4.2**
HORIZON 306	**75.0**	**29.1**	**4.7**	**4.1**	**4.5**	**5.5**	**95**	**5.4**	**10**	**0.5**	**4.0**
LA07007SBSBSB-24	74.0	29.3	4.7	2.9	3.9	4.5	85	4.6	1	1.0	4.0
LA02065SBSBSBSB-88	72.0	30.1	4.8	3.3	6.1	5.5	91	4.8	0	1.0	4.6
TX07CS1948	71.6	29.1	4.2	3.7	7.0	5.3	92	5.6	0	0.5	4.1
TX09CS1029	71.4	29.2	4.2	3.6	5.2	5.1	91	4.4	3	1.0	4.4
TX09CS1112	71.1	25.1	4.5	3.3	5.3	4.6	92	3.0	9	1.0	5.7
LA99016	**65.7**	**29.5**	**4.5**	**4.1**	**6.4**	**5.3**	**95**	**4.8**	**3**	**1.0**	**4.0**
LA06063SBSB-S1	63.9	32.3	4.3	4.3	4.5	4.5	84	3.2	2	0.5	4.8
BROOKS	**36.4**	**24.7**	**5.7**	**4.7**	**4.6**	**5.1**	**93**	**8.4**	**85**	**0.0**	**5.8**
Mean	**73.4**	**29.5**	**4.4**	**3.9**	**4.9**	**5.0**	**90**	**4.8**	**8**	**0.7**	**4.9**
CV%	**13**	**4**	**12**	**22**	**16**	**10**	**2**	**23**	**63**	**66**	**11**
LSD(0.10)	**17.1**	**2.9**	**NS**	**1.7**	**0.7**	**1**	**3**	**2.1**	**11**	**-**	**0.8**

Data from: 2016 Baton Rouge and 2015 and 2016 Winnsboro.

Seed Quality: 0 = very pretty seed, no defects; 9 = ugly seed.

Wint Stress Tolerance: 0 = highly stressed, complete loss of chlorophyll; 9 = None, green and lush.

Winter Growth Habit: 0 - very early spring-like; 9 = very late winter/prostrate.

Leafiness: 0 = very poor forage potential/few leaves; 9 = excellent leafiness/forage.

Phenotype: General appearance in March and April. 0 = excellent, 9 = very poor.

Correlations with Yield: CrownRust = -0.8088; LOD = -0.64*; WintStress = -0.42*; SdQual = -0.52**; TWT = -0.74**.

Appendix A. Entries in the 2016 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Brand	Line/Variety	Originating Agency
WHEAT		
AGS	AGS 2024, 2035, 2038, 2040…….....	AGSouth Genetics P.O. Box 72246 Albany, GA 31708
AgriMAXX	AgriMAXX 413, 415, 444, 446, Exp. 1674.....	AgriMAXX Wheat Company 7167 Highbanks Road Mascoutah, IL 62258
ARMOR	ARX 1511, ARX 1514, ARX 1516, ARX 1521……..	Armor Seed 183 S. Pennsylvania Ave. Waldenburg, AR 72475
Delta Grow	Delta Grow 1000, 2700, 7500…….…….....	Delta Grow Seed 220 N W 2nd England, AR 72046
Dixie	McAlister, Xtreme, DXEX16-1, DXEX16-2.....	Cache River Valley Seed, LLC P.O. Box 10 Cash, AR 72421
Dyna-Gro Savoy	Dyna-Gro 9171, 9522, 9642, WX1781, WX16771.....	Dyna-Gro Seed 11 Gin Road Rayville, LA 71269
GA	All numbered GA/UGA lines.....	Georgia Agric. Experiment Stn. Crop & Soil Science - UGA 1109 Experiment St. Griffin, GA 30223
LA	All numbered LA lines,…….....	Louisiana Agric. Experiment Stn. SPESS - LSU Baton Rouge, LA 70803
Pioneer	26R41, 26R53, 26R59, 26R94.....	Dupont Pioneer 59 Greif Parkway, Suite 200 Delaware, OH 43015
Progeny 15-16	Progeny 243, 357, 870, PGX 15-10, 15-12, 15-14.....	Progeny Ag Products 1529 Hwy. 193 South Wynne, AR 72396

Appendix A. Entries in the 2016 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Brand	Line/Variety	Originating Agency
WHEAT		
Stratton	Go Wheat 2056	Stratton Seed Company P.O. Box 1088 Stuttgart, AR 72160
Syngenta	Cypress, Harrison, Viper	Syngenta 7099 Parkbrook Ln Cordova, TN 38018
USG	USG 3013, 3120, 3201, 3404	UniSouth Genetics, Inc. 3205-C HWY 46 S Dickson, TN 37055
VA	Jamestown, Hilliard, VA12W-72	Virginia PI & State University EVAREC 2229 Menokin Road Warsaw, VA 22572

Appendix A. Entries in the 2016 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Brand	Line/Variety	Originating Agency
OATS		
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 270, 306……..…….....	Plantation Seed P.O. Box 398 Newton, GA 39870
Plot Spike	LA 99016.....	Ragan & Massey, Inc. 101 Ponchatoula Parkway Ponchatoula, LA 70454
TAMO/TX	All numbered TAMO/TX lines……..….....	Texas AgriLife Research TAMU - Commerce Dept. of Ag Science Commerce, TX 75429