2018 SMALL GRAIN PERFORMANCE TRIALS





LAES Research Summary No. 216 August 2018

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SMALL GRAIN PERFORMANCE TRIALS

$*Major\ headings\ and\ tables\ are\ directly\ linked\ to\ corresponding\ page\ in\ the\ document.$	Point and
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Performance of Small Grain Varieties in Louisiana, 2017-18

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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. Beginning in 2017, the performance trial in north Louisiana is divided by relative maturity into two groups, early and medium or late (normal) heading in order to facilitate timely planting and harvest. The north Louisiana early trial included 15 varieties (bold font) and experimental lines (normal font) while the normal trial included 45 entries. The 2018 south Louisiana performance trials included 32 entries.

New entries in the statewide trials are tested in the north Louisiana normal trial and in a south Louisiana vernalization trial, unless prior testing in Baton Rouge nurseries indicates an entry is adapted to south Louisiana, in which case it is also tested in the south Louisiana variety trials. 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.

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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. All plots were seeded at the recommended rate with seed provided by the originating agency or company (Appendix A).

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 three 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 tritici blotch (*Septoria tritici*) and Stagonospora nodorum blotch (*Stagonospora 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 diseases. Since bacterial streak (black chaff) is not controlled by fungicides, it is important that this disease be distinguished from Septoria tritici 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 R	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=poor, 9=excellent. This rating is a visual rating of 'eyeappeal'.							

Growing Conditions and General Comments for 2017-2018

The 2017-18 growing season was excellent. Favorable conditions in November permitted problem-free planting and stand establishment. November through mid-December, temperatures were seasonably cool with adequate rainfall. The latter half of December through mid-February were wet and colder than normal with several hard freezes. Heavy rains had a negative impact on tillering, but plants were able to recover. The cold snaps resulted in leaf burn in wheat, but no significant damage. Early, spring-like oats suffered more significant damage. Heavy rainfall during February caused delays/difficulties in fertilizer application at some locations, particularly at Baton Rouge and Bossier City. April was cool and dry throughout the state, resulting in excellent grain fill. Disease pressure was minimal and resulted in excellent test weights and yields. Harvest conditions were very good or optimal at all locations.

Results and Discussion

Performance of Wheat Varieties Across South Louisiana

South Region Means:

Spring growing conditions across south Louisiana were excellent, resulting in very high yields and test weights. The average yield across three locations was 88.5 bu/acre with a mean test weight of 60.2 lbs/bu. The 2018 South Louisiana Trials were planted at Baton Rouge, Crowley and Jeanerette and included 32 entries. The top five entries, which included three varieties, Delta Grow 3500 (103.8 bu/acre), AGS 2055 (101.8 bu/acre), and AGS 3040 (95.4 bu/acre), and two Georgia experimental lines, GA081113-15L8 (102.2 bu/acre) and GA08535-15LE29 (98.2 bu/acre), all had yields well above the mean (Table 1). Test weighs were exceptionally high, ranging from 58.0 lbs/bu to 61.8 lbs/bu with a mean of 60.2 lbs/bu. The two highest-yielding entries had test weights above the mean.

The top five entries all headed 2 or more days after the mean of day 80. The seven lowest-yielding entries all had heading dates at least one day earlier than the mean. The lowest yielding entry had the earliest heading date, 67 days.

April was cool and dry and as a result, disease pressure was minimal. All but one entry had a leaf rust rating of 0%. The Septoria tritici blotch, tan spot, and FHB score means were 2.5, 2.8, and 1.4 (0-9 scale), respectively. Lodging was moderate, with scores ranging from 1.5 to 6.4 (0-9 scale) and a mean of 4.3. Lodging primarily occurred at Crowley but did not appear to impact yield or test weight.

Of 11 entries, the Louisiana experimental line, LA01110D-150-625 (81.2 bu/acre) had the highest average yield across South Louisiana for two years (Table 2). The varieties Delta Grow 3500 (79.2 bu/acre) and Go Wheat LA754 (77.5 bu/acre) also had yields high above the mean of 72.7 bu/acre as did 8 of 11 entries. Only one entry had a leaf rust rating of greater than 0%. The top four entries had leaf blotch, tan spot and FHB scores below the means of 1.3, 3.3 and 1.6 (0-9 scale), respectively.

LA01110D-150-625 (67.5 bu/acre) also had the highest yield of 10 entries over three years in South Louisiana (Table 3). A second Louisiana experimental line, LA01110D-150-241 and four varieties, Delta Grow 3500, AGS 2024, Pioneer 26R94 and AGS2038 also yielded greater than the mean of 60.2 bu/acre. The top three entries all had below mean leaf rust and FHB scores, and headed later than the mean.

Baton Rouge

The varieties AGS 2055 (91.0 bu/acre) and Delta Grow 3500 (89.2 bu/acre), followed by the experimental lines GA081113-15EL8 (86.7 bu/acre), and GA08535-15LE29 (86.3 bu/acre) and a third variety, AGS 3040 (85.7 bu/acre) led in yield at Baton Rouge in 2018 (Table 4). The yield mean was 77.8 bu/acre. Delta Grow 3500 and the two Georgia experimental lines also had test weights above the mean of 61.1 lbs/bu.

Heading day ranged from 71 to 87 with a mean of 81. The 10 top-yielding entries had heading dates between 80 and 87. A cool, dry April led to low disease development. Leaf and stem rust did not occur and leaf blotch had a low score mean of 2.5 (0-9 scale).

Crowley

Yields were excellent in Crowley due to very low disease pressure and ideal grain fill conditions in April. Delta Grow 3500 (115.5 bu/acre), AGS 2055 (112.1 bu/acre), GA081113-15EL8 (107.6 bu/acre), GA08535-15LE29 (105.4 bu/acre), and LA09225C-33-3 (104.6 bu/acre) were the highest-yielding entries at Crowley (Table 5). The top three yielding entries all had test weights above the mean of 60.0 lbs/bu. The range in test weights was 57.1 to 61.5 lbs/bu.

Heading day ranged from 63 to 82 days with a mean of 76. The top five yielding entries all headed later than the mean. The cool, dry April kept disease development in check. All but one entry had a leaf rust rating of 0% and the FHB score mean was only 1.4 (0-9 scale). A significant amount of lodging occurred at Crowley, with a mean of 6.9, but lodging occurred late and did not significantly affect yield or test weight.

AGS 2024 (76.9 bu/acre), Delta Grow 3500 (73.7 bu/acre) and AGS 2038 (72.9 bu/acre) had the highest yield over two years at Crowley. The yield mean was 66.9 bu/acre.

Jeanerette

The trial at Jeanerette was excellent. The top five yielding entries at Jeanerette in 2018 were breeding lines. GA081113-15EL8 (112.2 bu/acre), LA01110D-150-625 (111.8 bu/ac), LA01110D-150-241 (106.5 bu/acre), FLLA10033C-6 (104.1 bu/acre), and LA10070GHB-88 (103.4 bu/acre) all had yields well above the mean of 93.9 bu/acre (Table 6). Ten entries yielded over 100 bu/acre and 13 had test weights of at least 60 lbs/bu. Test weights ranged from 55.8 lbs/bu to 62.3 lbs/bu with a mean of 59.4 lbs/bu.

Heading day ranged from 68 to 89 with a mean of 83. The nine top-yielding entries all headed later than the mean. Disease pressure was very low. Tan spot was the only disease rated and the mean was only 2.8 (0-9 scale).

Over two years, the Louisiana experimental, LA01110D-150-625 (94.1 bu/acre) and the variety Go Wheat LA754 (84.2 bu/acre) led at Jeanerette with yields well above the mean of 76.5 bu/acre.

Performance of Wheat Varieties Across North Louisiana

Early Maturity North Region Means:

AGS 2055 (85.5 bu/acre), FLLA10033C-6 (85.4 bu/acre), AGS 2024 (84.7 bu/acre) and AGS 2038 (83.2 bu/acre) had the highest yields of 15 entries across North Louisiana in the early-heading trial for 2018, compared to the mean of 77.4 bu/acre (Table 7). Test weights ranged from 55.2 to 60.4 lbs/bu with a mean of 58.6 lbs/bu. Lodging and Septoria tritici blotch were very low and differences were not statistically significant. Because April was cool and dry, leaf rust and stripe rust did not occur at significant levels in these trials.

Three AGS lines, 2038, 2055, and 2024, had the highest yield of nine entries in the early trial across North Louisiana for two years (Table 8). All three had yields of 70.5 bu/acre compared to the mean of 66.1 bu/acre, had leaf rust ratings of 0%, and bacterial streak scores lower than the mean of 2.6 (0-9 scale).

Of eight entries across the state for three years, Delta Grow 3500 (67.7 bu/acre) had the highest yield, followed by AGS 2055 (67.5 bu/acre) and AGS 2038 (66.6 bu/acre) compared to the mean of 61.8 bu/acre (Table 9). All three had a leaf rust rating of 0% and

bacterial streak and leaf blotch scores below the means of 2.0 and 2.7 (0-9 scale), respectively.

Alexandria

In the early maturity wheat performance trial at Alexandria in 2018, AGS 2038 (77.0 bu/acre), Delta Grow 3500 (74.2 bu/acre), and AGS 2024 (73.2 bu/acre) had the highest yields well above the mean of 62.3 bu/acre (Table 10). These same entries also had test weights above the mean of 54.3 lbs/bu. Bird damage was extensive at Alexandria with all entries having damage. Damage ratings ranged between 3 and 73% with a mean of 26.7%. The correlation between heading day and bird damage was r = -0.55**, which indicates that earlier entries sustained more feeding damage, as would be expected. Delta Grow 3500 had the second highest yield with a bird damage rating of 33%. Heading day ranged from 74 to 88 with a mean of 81.

Delta Grow 3500 (61.3 bu/acre) and AGS 2038 (60.9 bu/acre) had the highest yield of nine entries across North Louisiana for two years, well above the mean of 55.3 bu/acre, however, the differences between entries were not significant due to the very large differences in performance rank that occurred from 2017 to 2018.

Bossier City

FLLA10033C-6 (81.9 bu/acre), and AGS 3030 (74.1 bu/acre) had the highest yields in the early trial at Bossier City in 2018 (Table 11). Yields ranged from 17.2 to 81.9 bu/acre with a mean of 59.8 bu/acre. Both varieties had test weights below the mean of 58.2 lbs/bu and had a heading day on or after the mean.

Winnsboro

Two early-maturity wheat performance trials were planted in Winnsboro, each in a different field. Yields and test weights were very high and disease pressure low in both fields.

Trial 1

Yields were outstanding with a mean of 101.3 bu/acre. Pioneer 26R94, Go Wheat 2032, and AGS 2055 yielded 110+ bu/acre (Table 12). Ten of 16 entries yielded above 100 bu/acre and the mean yield was 101.3 bu/acre. Test weights were also very high, ranging from 59.9 to 64.9 lbs/bu with a mean of 62.2 lbs/bu. Leaf blotch (tan spot, Septoria, and bacterial streak combination) pressure was low, with scores ranging from 1 to 3 (0-9 scale) with a mean of 1.8. Leaf rust and stripe rust were not present at levels high enough to score.

Trial 2

AGS 2024 (103.5 bu/acre) had the highest yield of the 15 entries in this trial followed by Delta Grow 3500 (102.2 bu/acre) (Table 13). Both entries also had test weights above the mean of 60.9 lbs/bu. Disease pressure was minimal. Septoria tritici blotch scores ranged from 1 to 3 (0-9 scale) with a mean of 1.7. Leaf rust and stripe rust were not present at levels high enough to score.

Delta Grow 3500 (90.4 bu/acre), AGS 2055 (89.3 bu/acre), and AGS 2024 (86.9 bu/acre) all had yields above 86.5 lbs/bu compared to the mean of 81.7 lbs/bu for 2 years.

Normal Maturity North Region Means

The 'Normal maturity' trial contains new entries and those lines that did not head out five days earlier than the test mean in prior testing. The North Louisiana trials were excellent, with a cool, dry spring resulting in minimal disease pressure and optimal conditions during grain fill. GA08535-15LE29 (92.3 bu/acre), AGS 2055 (91.6 bu/acre), LA08080C-31-1 (88.2 bu/acre), SY Viper (88.1 bu/acre), and Pioneer 26R59 (87.1 bu/acre), led across North Louisiana in 2018. The average yield was quite high, with a mean of 81.2 bu/acre (Table 14). Test weight ranged between 60.9 lbs/bu and 55.6 lbs/bu with a mean of 58.9 lbs/bu. GA08535-15LE29 had the highest yield and the highest test weight.

Heading day ranged from 82 (March 23) to 94 (April 3) with a mean of 88 days (March 29). The highest yielding entry headed 1 day earlier than the mean. The cool spring resulted in a narrower range of heading dates than normal and all entries headed fully. Disease pressure was low, with Septoria tritici blotch and bacterial streak having means of 1.4 and 0.4 (0-9 scale), respectively. Lodging was also minimal with a mean 0.4 (0-9 scale).

In the normal maturity performance trial across north Louisiana for two years, AGS 2055 (87.0 bu/acre), Progeny #Fury (79.8 bu/acre), and Progeny Ag PGX16-4 (79.1 bu/acre) had the highest yields (Table 15). The mean yield for two years was 74.8 bu/acre, but the variety mean differences were not significant due to the large difference in rankings from 2017 to 2018. These top three entries all had test weights higher than the mean of 57.9 lbs/bu.

The variety AGS 2055 (77.8 bu/acre) also had the highest yield over three years, followed by the breeding line LA01110D-150-241 (74.2 bu/acre), both well above the mean of 64.8 bu/acre (Table 16). Both entries also had test weights above the mean of 56.0 lbs/bu and had heading days earlier than the mean of 93 days.

Alexandria

The normal maturity performance trial at Alexandria had minimal disease pressure with excellent yields and good test weights. SY Harrison (106.8 bu/acre), GA08535-15LE29 (105.2 bu/acre), LA08080C-31-1 (104.8 bu/acre), Pioneer 26R59 (102.5 bu/acre), and LA01110D-150-241 (102.2 bu/acre) all yielded over 102 bu/acre (Table 17). The average yield of 45 entries was 87.5 bu/acre. Test weight for these top entries ranged from 49.0 lbs/bu to 58.5 lbs/bu compared to the mean of 57.0 lbs/bu. The variety Pioneer 26R59 had a very low test weight at Alexandria and substantially lower than the test mean at three other north Louisiana locations. The average heading date was 86 days and there was no relationship between heading day and yield.

Bird damage was minimal in this test compared to the early test, with ratings ranging from 0 to 20%, a mean of only 3%, and non-significant differences among entries. Bacterial streak levels were low, with scores between 0 and 3.5 (0-9 scale). Rust and Fusarium head blight did not occur at levels high enough to rate.

Bossier City

Average yield and test weight were good at Bossier City. AGS 3040 (84.0 bu/acre) and AGS 2055 (79.1 bu/acre) had the highest yields at this location in 2018, well above

the mean of 66.1 bu/acre (Table 18). Test weight ranged between 55.7 and 60.4 lbs/bu with a mean of 58.1. Diseases were not an issue at this site.

St. Joseph

The trial at St. Joseph produced yields and test weights that are about the average expected over years for this location, but less than at the other north Louisiana sites. AGS 2055 (81.2 bu/acre), GA08535-15LE29 (77.0 bu/acre), and LCS L11713 (75.4 bu/acre) had the highest yields of 45 entries at St. Joseph (Table 19). There was a wide range in yields, 35.9 to 81.2 bu/acre, with a mean of 59.6 bu/acre. Test weights ranged from 54.1 to 59.6 lbs/bu with a mean of 57.2 lbs/bu. No disease data were collected at St. Joseph.

Winnsboro

Trial 1

Yields were excellent in this trial with 21 entries over 100 bu/acre (Table 20). Pioneer 26R45, AgriMaxx 480, SY Miskin, and AGS 2055 all having yielded over 105 bu/acre. Test weights were also very high, ranging from 57.3 to 64.5 lbs/bu with a mean of 60.6 bu/acre. Disease pressure was minimal, with Septoria tritici blotch ratings ranging from 0 to 4 and no leaf rust, stripe rust, or Fusarium head blight.

Trial 2

Yields were excellent in this trial with 20 entries averaging over 100 bu/acre (Table 21). SY Viper, the top entry, yielded 111.2 bu/acre, well above the mean of 98.3 bu/acre. The varieties Pionner 26R45, GA08535-15LE29, USG 3536, and Delta Grow 1000 all had yields above 106.0 bu/acre. GA08535-15LE29 had an outstanding test weight (64.2 lbs/bu), the highest recorded in these trials.. The average test weight of 45 entries was 62.2 lbs/bu, which is unheard of in Louisiana.

The varieties AGS 2055 (83.7 bu/acre), Delta Grow 1000 (81.8 bu/acre), and Progeny #Fury (79.6 bu/acre) had the highest yields of 22 entries over two years. The two-year average yields are over 20 bu/acre lower than the 2018 average yield, which demonstrated the tremendous contrast in growing seasons from 2017 to 2018.

Wheat Screening Nursery

The wheat screening nursery was established to allow testing of breeding lines for adaptation to Louisiana in order make a determination as to whether or not lines should be entered in the statewide trials the following year. It also serves as an overflow for entries that are submitted too late to be included in the standard trials. It is a two-rep yield trial planted at Baton Rouge and Winnsboro.

Baton Rouge

Of 15 entries, two checks, LA754 and AGS2055, had the highest yields with 75.5 bu/acre and 73.1 lbs/bu, respectively (Table 22). Two experimental lines, SX4435 and SX4820 also had yields above 69.5 bu/acre. Yields were a little low in this trial due to marginal drainage and a wet winter that resulted in reduced tillering. The four highest-yielding entries all had relative maturities later than the mean. The number of

vernalization (chilling) hours for 2018 was about three times the amount that occurred in 2017 and all entries fully headed. The top three entries had FHB and Septoria tritici blotch scores below the mean, and neither disease was significant.

Winnsboro

The trial at Winnsboro produced much higher yields with 7 of 15 entries over 100 bu/acre. The variety AgriMaxx 481, which ranked 5th in yield at Baton Rouge, had the highest yield and test weight at Winnsboro in 2018 (Table 23). The experimental line, SX4435, had the 2nd highest yield, but the 4th lowest test weight.

Performance of Oat Varieties Across Louisiana

Statewide means

Thirty-three oat varieties and breeding lines were evaluated across four locations in 2018. Performance was similar to the wheat trials with generally excellent yields and test weights, and minimal disease pressure. Four 'LA' breeding lines (three from LSU and one from Univ. of Florida), and one released variety, Horizon 306, all had yields above 121 bu/acre compared to the mean of 106.7 bu/acre (Table 24). Test weights were exceptional. Four of the five highest-yielding entries all had test weights over 33.7 lbs/bu with a high of 35.5 lbs/bu. The average test weight of 33 entries was 33.5 lbs/bu. Some freeze damage occurred on earlier-heading entries. Freeze damage scores ranged from 1.4 to 4.8 (0-9 scale). Crown rust ratings, taken in Baton Rouge only, ranged from 0 to 70% (susceptible check, Brooks), with 19 entries having a rating of 0. Heading day ranged from day 81 to day 99 with a mean of 90. Lodging was minimal, even in entries with high levels of crown rust.

The entry LA12068SBSB-58-1 (118.2 bu/acre) had the highest yield of 15 entries for the 2017 and 2018 seasons (Table 25). 2017 was a very poor year with data collected at Winnsboro only. Ten entries had yields above the mean of 101 bu/acre. The variety Horizon 270 (99.6 bu/acre) had the highest yield and second highest test weight (30.1 lbs/bu) for three years across the state, despite a 18% crown rust rating. Data were highly variable over three years, collected at Baton Rouge and Winnsboro in 2016, Winnsboro only in 2017, and Alexandria, Baton Rouge and Winnsboro in 2018.

Alexandria

Yields were very good at Alexandria despite occurrence of some bird damage. LA12068SBSB-58-1 (117.1 bu/acre) had the highest yield in 2018 (Table 26). Three varieties, Horizon 270, Horizon 306, and Horizon 201, and the LA experimental line, LA09103SBS-U5, round out the top five yielding entries, all with yields above 112 bu/acre, well above the mean of 94.3 bu/acre. Delayed harvest resulted in low test weights at Alexandria. Horizon 270 (28.3 lbs/bu) led the five highest yielding entries in test weight, well above the mean of 25.1 lbs/bu. Lodging was minimal at Alexandria (1.6 mean) while bird damage was moderate, with ratings ranging between 0 and 37% and a mean of 10%. There was no disease pressure at Alexandria. The top five yielding entries had heading days equal or greater than the mean of 90 days.

Baton Rouge

The oat trial at Baton Rouge was excellent. Five breeding lines, LA09015SBS-U1, LA12040SBSBSB-64, LA11074SBSBSBSB-109, LA09044SBS-U1, and LA12066SBSB-90-1-1 yielded over 126 bu/acre, compared to the mean of 109.7 bu/acre (Table 27). Horizon 306 was the highest-yielding variety. Four of these six had test weights greater than the mean of 32.0 lbs/bu. All six entries had lodging scores of 0. The five breeding lines had heading days earlier than the mean of 88, and crown rust ratings of 0%. Crown rust pressure was moderately low with 19 of 33 entries having a crown rust rating of 0%. The susceptible check variety, Brooks, had a crown rust rating of 70% which contributed to the lowest yield and test weight. Barley yellow-dwarf virus pressure was moderate with entries having scores ranging between 1 and 4.5 (0-9 scale). Lodging was just about non-existent, with only one entry scoring greater than 0.

Winnsboro

The oat trial at Winnsboro had outstanding mean yields and test weights. LA12006SBSBSB-46 had a yield of 155.0 bu/acre and test weight of 36.3 lbs/bu compared to the means of 115.9 bu/acre and 35.0 lbs/bu, respectively (Table 28). The top four yielding entries, all breeding lines, had test weights above the mean of 35.0 lbs/bu. A cool and dry April resulted in minimal disease pressure and little to no lodging. There was, however, some freeze damage at Winnsboro. All entries sustained freeze damage with scores ranging from 1 to 6.5 (0-9 scale) and a mean of 3.4.

Table 1. Wheat performance trial across South Louisiana for 2018.										
Ao Center	Grain	Test	Head	Plant	Lod	Leaf	Leaf	Tan	Pheno	FHB
Research · Extension · Teaching	Yield	Wt	Day	Ht	Score	Blotch	Rust#	Spot+	type	Score#
Brand / variety	bu/a	lbs/bu	of yr	in	0-9	0-9	%	0-9	0-9	0-9
DELTA GROW 3500	103.8	61.4	82	34	4.9	2.0	0	2.5	6.3	1.0
GA081113-15EL8	102.2	61.5	82	33	3.9	1.0	0	1.0	5.8	1.0
AGS 2055	101.8	58.0	86	34	1.5	2.0	0	1.6	7.0	0.8
GA08535-15LE29	98.2	60.0	82	34	4.1	2.0	0	1.6	6.3	1.3
AGS 3040	95.4	58.2	83	36	2.5	1.0	0	1.0	6.3	1.0
LA08281D-7-5	94.0	59.7	81	33	5.1	2.0	0	2.4	6.3	1.5
AR06146E-1-4	93.8	61.8	81	36	4.6	1.0	0	2.0	5.5	1.0
GA081446-15EL47	93.7	59.4	78	34	5.3	2.0	0	3.6	6.0	1.8
GO WHEAT LA754	93.3	60.1	79	34	5.6	2.0	0	2.1	5.8	2.5
FLLA10033C-6	93.1	59.4	79	36	5.1	2.0	0	1.6	6.5	1.0
LA01110D-150-241	92.5	59.6	82	34	3.3	1.0	0	1.4	5.5	1.0
LA13235LDH-40	92.1	61.6	81	35	5.1	2.0	0	0.9	5.8	1.5
LA01110D-150-625	91.5	60.7	80	36	4.3	3.0	0	1.9	5.3	1.0
LA08080C-31-1	90.9	59.7	84	32	1.8	1.0	0	2.5	5.8	0.3
AGS 2024	90.3	59.6	78	32	5.3	2.0	0	3.5	6.3	2.3
LA09083C-7-4	89.9	60.0	80	32	3.6	2.0	0	3.4	5.5	1.0
LA10070GHB-88	89.1	61.9	85	36	3.8	1.0	0	1.3	4.8	1.0
LA09225C-33-3	88.2	59.6	84	33	4.1	1.0	0	2.1	6.3	1.0
PIONEER 26R94	87.4	61.0	79	36	4.6	3.0	0	3.8	6.0	1.3
LA12275LDH-128	87.3	61.8	83	37	1.8	3.0	0	2.4	6.5	0.5
AGS 2038	87.2	59.1	83	36	5.4	4.0	0	3.3	5.8	1.5
SY COLLINS	86.0	60.4	77	35	4.1	7.0	0	2.8	5.0	1.0
GA061471-15LE38	85.7	58.7	81	36	4.8	2.0	0	3.9	5.3	1.0
GO WHEAT 2032	85.1	60.5	77	35	4.5	5.0	0	4.8	6.3	2.0
FLLA10191C-13	83.9	61.8	77	33	3.4	2.0	0	2.6	6.3	1.7
USG 3120	83.7	60.4	76	36	4.3	3.0	0	5.0	5.3	2.5
LA09050C-P4	82.9	60.1	78	34	5.6	1.0	0	2.3	5.3	2.5
NC13-20076	80.5	61.6	79	35	6.4	1.0	0	3.0	5.0	1.3
FLLA10204C-4	75.9	58.1	78	33	3.6	3.0	0	4.3	6.0	
AGS 2040	73.7	60.6	77	33	5.3	2.0	0	5.1	5.5	
DYNA-GRO SAVOY	71.1	58.8	72	32	5.3	7.0	0	5.5	4.0	2.0
AGS 3000	69.1	60.8	67	32	4.5	6.0	19	5.6	4.5	
MEAN	88.5	60.2	80	34	4.3	2.5	1	2.8	5.7	1.4
CV(%)	8	1	2	5	27		395	24	10	43
LSD (0.10)	9.3	1.4	2	2	2.3		3	0.8		0.7

Data from Baton Rouge, Crowley, and Jeanerette.

Comments: A wet winter inhibited tillering. A warm February and early March were followed by a very cool late March and April. April was quite dry and disease development was minmal. About 3x the vernalization hours as occurred in 2017. Ideal grain fill conditions resulted in high yields and excellent test weights.

Crowley data only. + Jeanerette data only.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Blotch is severity of leaf infection by a combinaiton of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = none to 9 = 100% leaf tissue damaged.

Leaf Rust is percent tissue of upper three leaves affected by leaf rust.

Tan Spot is severity of leaf infection on a scale of 0 = none to 9 = 100% leaf tissue damaged.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

FHB data is from an inoculated and misted nursery. **FHB Score** is severity of Fusarium Headblight infection on a scale of 0 = 100% damaged florets/glumes.

LSU	Table 2. Wheat performance trial across South Louisiana for two years, 2017 and 2018.									
AgCenter	Grain	Test	Head	Plant	Lod	Leaf	Leaf	Tan	FHB	Pheno
Research · Extension · Teaching	Yield	Wt	Day	Ht	Score	Blotch	Rust	Spot+	Score	type
Brand / variety	bu/a	lbs/bu	of yr	in	0-9	0-9	%	0-9	0-9	0-9
LA01110D-150-625	81.2	58.3	80	35	3.6	3.0	0	1.9	0.6	5.3
DELTA GROW 3500	79.2	57.4	82	32	3.1	2.0	0	2.5	0.4	6.3
GO WHEAT LA754	<i>77.</i> 5	57.6	79	34	4.2	2.0	0	2.1	1.3	5.8
LA01110D-150-241	76.6	56.8	82	33	2.5	1.0	0	1.4	0.3	5.5
AGS 2024	76.6	56.8	78	31	5.4	2.0	0	3.5	2.8	6.3
AGS 2055	75.2	52.0	86	33	1.5	2.0	0	1.6	0.3	7.0
AGS 2038	74.4	57.6	83	35	4.4	4.0	0	3.3	2.2	5.8
PIONEER 26R94	73.2	58.2	79	35	4.6	3.0	0	3.8	3.5	6.0
AGS 3000	62.8	58.8	67	31	4.5	6.0	10	5.6		4.5
AGS 2040	62.3	58.5	77	32	5.0	2.0	0	5.1	2.8	5.5
DYNA-GRO SAVOY	61.8	56.3	72	31	5.5	7.0	0	5.5	2.9	4.0
MEAN	72.7	57.1	79	33	4.0	3.1	1	3.3	1.6	5.6
CV(%)	10	2	2	5	23		261	22	32	12
LSD (0.10)	11.7	2.7	2	1	1.6		4		2.6	

Data from Baton Rouge, Crowley, and Jeanerette for 2018; and CR and JE for 2017.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Blotch is severity of leaf infection by a combinaiton of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = none to 9 = 100% leaf tissue damaged.

Leaf Rust is percent tissue of upper three leaves affected by leaf rust.

Tan Spot is severity of leaf infection on a scale of 0 = none to 9 = 100% leaf tissue damaged.

FHB data is from an inoculated and misted nursery. **FHB Score** is severity of Fusarium Headblight infection on a scale of 0 = none to 9 = 100% damaged florets/glumes.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

⁺ Jeanerette 2018 data only.

LSU	Table 3. Wheat performance trial across South Louisiana for three years, 2016, 2017 and 2018.									
Ag Center	Grain	Test	Head	Plant	Lod	Leaf	FHB	Pheno		
Research · Extension · Teaching	Yield	Wt	Day	Ht	Score	Rust	Score	type		
Brand / variety	bu/a	lbs/bu	of yr	in	0-9	%	0-9	0-9		
LA01110D-150-625	67.5	57.3	80	34	4.0	1	0.4	4.8		
LA01110D-150-241	63.9	55.8	82	33	2.8	0	0.2	4.6		
DELTA GROW 3500	63.2	56.0	82	32	3.7	0	0.2	4.3		
AGS 2024	63.0	55.8	78	30	4.7	0	2.0	4.9		
PIONEER 26R94	61.8	56.7	79	35	4.5	0	2.4	4.6		
AGS 2038	60.8	56.0	83	35	4.3	0	1.4	4.8		
AGS 2055	58.2	51.4	86	33	2.2	0	0.2	5.2		
AGS 2040	55.6	57.6	77	32	4.4	0	1.5	4.6		
DYNA-GRO SAVOY	54.3	55.6	72	31	4.8	0	3.0	4.2		
AGS 3000	54.3	58.0	67	31	4.5	6	0.4	3.8		
MEAN	60.2	56.0	79	33	4.0	1	1.9	4.6		
CV(%)	11	3	2	5	24	306	69	15		
LSD (0.10)	NS	1.8	2	1	1.3	3	1.6	NS		

Data from Baton Rouge, Crowley, and Jeanerette for 2016 and 2018; and Crowley and Jenerette for 2017.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Rust is percent tissue of upper three leaves affected by leaf rust.

FHB data is from an inoculated and misted nursery. **FHB Score** is severity of Fusarium Headblight infection on a scale of 0 = 100% damaged florets/glumes. It is an estimate of proportion of florets infected.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

Ag Center	Grain	Test	Head	Plant	Lod	Leaf	Pheno
Research · Extension · Teaching	Yield	Wt	Day	Ht	Score	Blotch	type
Brand / variety	bu/a	lbs/bu	of yr	in	0-9	0-9	0-9
AGS 2055	91.0	58.6	87	36	1.3	2.0	7.0
DELTA GROW 3500	89.2	62.5	82	36	1.3	2.0	6.3
GA081113-15EL8	86.7	62.0	83	35	1.5	1.0	5.8
GA08535-15LE29	86.3	60.8	81	36	1.8	2.0	6.3
AGS 3040	85.7	58.9	84	38	1.3	1.0	6.3
GO WHEAT LA754	85.0	61.6	81	36	2.3	2.0	5.8
FLLA10033C-6	84.9	60.5	81	38	1.3	2.0	6.5
AR06146E-1-4	84.2	62.4	83	39	1.0	1.0	5.5
PIONEER 26R94	83.5	62.4	80	40	2.3	3.0	6.0
LA08281D-7-5	83.3	59.4	81	38	2.0	2.0	6.3
GO WHEAT 2032	82.1	61.9	78	37	1.3	5.0	6.3
GA081446-15EL47	82.1	60.2	79	37	2.0	2.0	6.0
AGS 2024	81.9	59.8	79	33	1.8	2.0	6.3
LA08080C-31-1	81.0	59.8	84	34	1.3	1.0	5.8
LA13235LDH-40	77.9	62.1	81	36	3.3	2.0	5.8
LA01110D-150-241	77.4	60.2	84	35	1.5	1.0	5.5
LA12275LDH-128	77.2	63.1	84	39	1.0	3.0	6.5
GA061471-15LE38	76.5	59.5	81	40	1.3	2.0	5.3
LA10070GHB-88	76.3	62.8	86	37	1.3	1.0	4.8
LA09083C-7-4	75.7	60.6	81	35	1.8	2.0	5.5
USG 3120	75.6	62.1	79	36	1.5	3.0	5.3
FLLA10191C-13	75.2	63.5	78	33	2.0	2.0	6.3
LA01110D-150-625	74.9	61.9	81	36	2.0	3.0	5.3
LA09225C-33-3	74.5	59.6	87	36	2.0	1.0	6.3
LA09050C-P4	72.2	61.0	79	36	2.5	1.0	5.3
AGS 2040	72.0	62.5	78	35	2.5	2.0	5.5
NC13-20076	71.4	62.6	82	36	4.0	1.0	5.0
AGS 2038	67.8	59.8	83	36	2.3	4.0	5.8
SY COLLINS	66.9	61.0	78	35	2.8	7.0	5.0
FLLA10204C-4	66.3	58.6	79	33	1.5	3.0	6.0
DYNA-GRO SAVOY	65.7	60.4	75	34	1.8	7.0	4.0
AGS 3000	58.5	62.9	71	35	1.5	6.0	4.5
MEAN	77.8	61.1	81	36	1.8	2.5	5.7
CV(%)	7	1	1	3	33		10
LSD (0.10)	6.4	0.8	1	2	0.7		1.0

Data from LSU AgCenter Central Station Ben Hur Research Farm, Baton Rouge, LA. Steve Harrison, Kelly Arceneaux, Allysson Lunos, and Katie McCarthy Fontenot.

Cultural and Site Information: Soybeans prior crop. 20# sulfur preplant. 60-0-0 as 32% liquid N in early February and 50-0-0 in late February. Harmony Extra and metribuzin herbicides. Planted 11-17-17; harvested 5-15-18.

Comments: A wet mid-winter inhibited tillering. A warm February and early March were followed by a very cool late March and April. April was quite dry and disease development was minmal. About 3x the vernalization hours as occurred in 2017. Ideal grain fill conditions resulted in high yields and excellent test weights.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Blotch is severity of leaf infection by a combinaiton of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = none to 9 = 100% leaf tissue damaged.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

Ag Center	Grain	Yield	Test	Head	Plant	Lod	Leaf	FHB
search · Extension · Teaching	2018	2-yr	Wt	Day	Ht	Score	Rust	Score
Brand / variety	bu	ı/a	lbs/bu	of yr	in	0-9	%	0-9
AGS 2024	103.5	76.9	60.7	74	33	8.8	0	2.3
DELTA GROW 3500	115.5	73.7	61.3	79	34	7.5	0	1.0
AGS 2038	98.5	72.9	60.1	78	36	7.8	0	1.5
AGS 2055	112.1	71.8	57.9	82	34	1.8	0	0.8
LA01110D-150-241	93.5	70.8	59.7	78	35	5.0	0	1.0
LA01110D-150-625	87.8	70.1	60.2	76	36	6.5	0	1.0
PIONEER 26R94	93.8	67.4	61.3	76	36	7.0	0	1.3
GO WHEAT LA754	93.4	67.0	59.1	74	34	9.0	0	2.5
DYNA-GRO SAVOY	74.3	61.2	59.1	65	33	8.8	0	2.0
AGS 3000	65.7	55.1	57.1	63	32	7.5	19	
AGS 2040	71.8	49.6	59.1	72	34	8.0	0	
GA081113-15EL8	107.6		61.5	79	34	6.3	0	1.0
GA08535-15LE29	105.4		59.9	80	34	6.5	0	1.3
LA09225C-33-3	104.6		60.7	81	34	6.3	0	1.0
GA081446-15EL47	104.6		60.4	73	34	8.5	0	1.8
LA13235LDH-40	103.5		61.3	77	35	7.0	0	1.5
AGS 3040	101.9		60.0	80	35	3.8	0	1.0
LA08281D-7-5	100.7		59.7	78	32	8.3	0	1.5
LA09083C-7-4	99.5		60.7	76	32	5.5	0	1.0
LA08080C-31-1	98.0		60.4	81	34	2.3	0	0.3
NC13-20076	95.6		60.8	75	35	8.8	0	1.3
AR06146E-1-4	95.0		61.1	78	35	8.3	0	1.0
GA061471-15LE38	94.2		59.0	78	35	8.3	0	1.0
USG 3120	92.9		59.9	72	38	7.0	0	2.5
FLLA10033C-6	90.4		59.6	74	36	9.0	0	1.0
GO WHEAT 2032	89.8		59.8	72	36	7.8	0	2.0
SY COLLINS	89.6		59.8	75	36	5.5	0	1.0
LA12275LDH-128	88.2		60.7	81	38	2.5	0	0.5
LA10070GHB-88	87.6		61.5	81	36	6.3	0	1.0
FLLA10204C-4	85.0		59.1	74	34	5.8	0	
FLLA10191C-13	82.3		60.0	72	35	4.5	0	1.7
LA09050C-P4	79.9		59.1	74	33	8.8	0	2.5
MEAN	94.0	66.9	60.0	76	35	6.9	1	1.4
CV(%)	6	8	1	2	5	23	395	43
LSD (0.10)	6.9	NS	1.0	1	2	1.8	3	0.7

Data from LSU AgCenter H. Rouse Caffey Rice Research Station. Dusting Harrell, Don Groth, Boyd Padgett, James P. Leonards, Jacob Fluitt, Manoch Kongchum, and Jason Hartman.

Cultural and Site Information: Crowley silt loam soil. 0.51% OM. 6.27 pH. Planted 11-14-17. 21-60-84-2S fertilizer on 11-28-17. 90-0-0 topdress N on 2-19-18. 2 oz/a Sharpen herbicide on 11-15-17. Harvested on 5-8-18.

Comments: A warm February and early March followed by a very cool late March and April. April was quite dry and disease development was minimal. About 3x the vernalization hours as occurred in 2017. Ideal grain fill conditions resulted in high yields and excellent test weights.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Rust is percent tissue of upper three leaves affected by leaf rust.

FHB data is from uninoculated yield plots. **FHB Score** is severity of Fusarium Headblight infection on a scale of 0 = 100% damaged florets/glumes. It is an estimate of proportion of florets infected.

LSU	Table 6. W	heat perfor	mance trial a	it Jeanerette	e, LA for 20	18.	
Ag Center	Grain		Test	Head	Mat	Plant	Tan
Research · Extension · Teaching	2018	2-yr	Wt	Day	Day	Ht	Spot
Brand / variety	bu		lbs/bu	of yr	of yr	in	0-9
·				·			
LA01110D-150-625	111.8	94.1	59.9	84	135	34.7	1.9
GO WHEAT LA754	101.4	84.2	59.5	83	134	33.8	2.1
LA01110D-150-241	106.5	82.0	58.9	86	137	31.7	1.4
DELTA GROW 3500	102.9	81.4	60.6	85	136	31.3	2.5
AGS 2038	90.5	78.4	<i>57.5</i>	88	139	33.8	3.3
AGS 3000	83.1	74.1	62.3	68	119	29.5	5.6
PIONEER 26R94	84.7	73.8	59.3	82	133	32.5	3.8
AGS 2024	84.0	73.2	57.9	82	133	28.8	3.5
AGS 2055	102.3	70.6	57.5	89	140	31.2	1.6
AGS 2040	77.3	70.3	60.3	82	133	31.3	5.1
DYNA-GRO SAVOY	73.3	60.3	56.8	77	128	29.5	5.5
GA081113-15EL8	112.2		61.1	86	137	31.3	1.0
FLLA10033C-6	104.1		58.2	85	136	33.7	1.6
LA10070GHB-88	103.4		61.6	88	139	32.7	1.3
GA08535-15LE29	102.9		59.4	84	135	33.0	1.6
AR06146E-1-4	102.1		61.9	84	135	36.3	2.0
SY COLLINS	101.5		60.3	78	129	33.0	2.8
AGS 3040	98.6		55.8	86	137	34.5	1.0
LA08281D-7-5	98.1		60.0	85	136	30.2	2.4
LA09050C-P4	96.5		60.3	81	132	34.3	2.3
LA12275LDH-128	96.5		61.5	86	137	34.5	2.4
LA13235LDH-40	94.9		61.3	85	136	32.3	0.9
LA09083C-7-4	94.5		58.7	83	134	30.3	3.4
GA081446-15EL47	94.4		57.7	82	133	32.0	3.6
FLLA10191C-13	94.2		61.8	83	134	29.3	2.6
LA08080C-31-1	93.8		59.0	88	139	28.8	2.5
GA061471-15LE38	86.5		57.7	84	135	34.4	3.9
LA09225C-33-3	85.6		58.6	87	138	29.7	2.1
GO WHEAT 2032	83.4		59.9	82	133	31.8	4.8
USG 3120	82.6		59.1	78	129	31.7	5.0
FLLA10204C-4	76.3		56.6	80	131	30.7	4.3
NC13-20076	68.5		60.9	85	136	35.0	3.0
MEAN	93.9	76.5	59.4	83	134	32	2.8
CV(%)	10	12	2	2	1	4	24
LSD (0.10)	10.9	NS	1.2	2	2	2	0.8

Data from LSU AgCenter Iberia Research Station, Jeanerette, LA. Greg Williams and Boyd Padgett.

Cultural and Site Information: Planted 11-10-18. 13-13-13 fertilizer on 12-4-18 + 0.46 Urea on 2-19-18. Axial, Finesse, and Osprey herbicides for weed control. Harvested 5-9-18.

Comments: A warm February and early March were followed by a very cool late March and April. April was quite dry and disease development was minmal. About 3x the vernalization hours as occurred in 2017. Ideal grain fill conditions resulted in high yields and excellent test weights.

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

TanSpot is severity of leaf infection on a scale of 0 = none to 9 = 100% leaf tissue damaged.

LSU	Table 7. Ea	Table 7. Early maturity wheat performance trial across North Louisiana for 2018.										
AgCenter Research · Extension · Teaching	Grain Yield	Test Wt	Head Day	Rel Mat	Plant Ht	Lod Score	Leaf Blotch	Pheno type				
Brand / variety	bu/a	lbs/bu	of yr	0-9	in	0-9	0-9	0-9				
AGS 2055	85.5	57.6	89	5.3	35	0.3	2.0	6.2				
FLLA10033C-6	85.4	58.5	84	5.0	37	0.6	2.0	5.3				
AGS 2024	84.7	58.0	86	5.0	34	0.4	2.0	5.3				
AGS 2038	83.2	59.8	90	6.0	37	0.6	1.5	5.7				
DELTA GROW 3500	82.7	60.0	85	3.8	32	0.3	1.0	6.2				
AGS 2032	80.2	60.4	86	5.2	35	0.5	1.5	6.3				
DYNA-GRO SAVOY	79.7	58.6	81	5.0	32	0.9	2.0	5.5				
PIONEER 26R94	78.7	58.4	84	5.0	36	0.3	1.0	5.8				
FLLA10204C-4	77.3	58.4	84	5.0	34	0.3	2.0	5.8				
FLLA10191C-13	77.0	59.0	81	4.8	34	0.3	1.5	5.3				
GO WHEAT LA754	76.3	59.3	84	5.0	35	0.4	2.0	5.8				
AGS 3030	74.9	55.2	85	5.0	33	0.6	1.5	5.2				
USG 3120	70.0	60.3	83	4.5	35	0.8	2.0	5.5				
AGS 3000	62.8	57.4	77	4.0	32	1.0	2.0	5.8				
AGS 2040	58.9	57.6	80	4.7	34	0.6	2.5	5.8				
MEAN	77.4	58.6	84	4.9	34	0.5	1.8	5.7				
CV(%)	12	3	2	9	6	37		7				
LSD(0.10)	11.9	2.2	3	1.8	2	NS	NS	NS				

Data from Alexandria, Bossier City, and two Winnsboro trials.

Cultural and Site Information: Excellent trial. Cool and dry April with very little disease pressure or other stress.

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

Rel Mat is relative maturity where 0 = extremely early; 3 = early; 5 = average heading date; 7 = late; 9 = did not head.

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Blotch is severity of leaf infection by a combinaiton of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = none to 9 = 100% leaf tissue damaged.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

AGS2055 was included as a medium-late check - also in the 'Normal Trial'.

Search · Extension · Teaching	Grain Yield	Test Wt	Head Day	Plant Ht	Lod Score	Leaf Rust	Bact Streak	FHB Score	Pheno type
Brand / variety	bu/a	lbs/bu	of yr	in	of yr	%	0-9	0-9	0-9
AGS 2038	70.5	58.3	87	38	1.8	0	1.2	2.8	5.6
AGS 2055	70.5	56.6	88	37	1.7	0	1.2	0.0	6.1
AGS 2024	70.5	56.9	81	35	2.0	0	2.9	3.7	5.1
DELTA GROW 3500	69.9	59.1	83	34	2.6	0	1.3	0.4	6.1
PIONEER 26R94	67.2	58.0	81	38	2.1	4	1.0	2.3	5.7
DYNA-GRO SAVOY	67.1	57.9	76	33	2.5	0	6.1	3.2	4.9
GO WHEAT LA754	66.7	58.2	80	36	2.6	0	1.0	2.8	5.5
AGS 3000	57.4	57.3	72	34	2.8	12	5.9	1.2	5.4
AGS 2040	54.6	57.6	76	35	2.7	0	3.1	2.0	5.7
MEAN	66.1	57.8	81	36	2.3	2	2.6	2.1	5.6
CV(%)	14	3	2	5	78	166	55	26	10
LSD(0.10)	8.6	NS	3	2	NS	5	1.9	NS	0.6

Data from Alexandria, Bossier City, and two Winnsboro trials in 2018; and Alexandria, St Joseph, and Winnsboro in 2017.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Rust is percent tissue of upper three leaves affected by leaf rust.

Bact Streak is bacterial streak (black chaff) rating with 0 = no damage and 9 = severe.

FHB data is from an inoculated and misted nursery. **FHB Score** is severity of Fusarium Headblight infection on a scale of 0 = none to 9 = 100% damaged florets/glumes.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

AGS2055 was included as a medium-late check - also in the 'Normal Trial'.

LSU	Table 9. 2018.	Early n	naturity	wheat p	erforman	ce trial a	cross Nor	th Louisian	a for three	e years, 20	16, 2017	and
Ag Center	Grain	Test	Head	Plant	Lod	Leaf	Bact	Leaf	Pheno	FHB	FDK	FHB
Research · Extension · Teaching	Yield	Wt	Day	Ht	Score	Rust	Streak	Blotch	type	Score		DON
Brand / variety	bu/a	lbs/bu	of yr	in	0-9	%	0-9	0-9	0-9	0-9	%	ppm
DELTA GROW 3500	67.7	58.5	85	35	2.2	0	0.8	1.6	5.6	0.9	23	5.6
AGS 2055	67.5	54.7	91	37	1.3	0	1.0	2.1	5.4	0.0	53	15.9
AGS 2038	66.6	56.9	88	39	1.2	0	0.6	1.9	5.3	3.0	28	10.3
AGS 2024	65.2	55.9	84	35	1.6	0	1.3	3.0	4.8	3.0	68	8.7
PIONEER 26R94	63.0	57.1	83	38	1.4	2	1.0	1.6	5.2	2.1	35	6.8
DYNA-GRO SAVOY	58.7	57.1	78	34	1.9	0	4.8	4.0	5.3	1.9	33	5.1
AGS 2040	54.1	57.0	79	36	1.8	0	3.0	3.8	5.6	1.2	10	4.3
AGS 3000	50.6	57.3	75	35	1.7	7	4.1	3.6	5.3	0.9	23	4.5
MEAN	61.8	56.8	83	36	1.6	1	2.0	2.7	5.3	1.7	34	7.7
CV(%)	14	3	2	5	97	226	86	20	10	43		34
LSD(0.10)	7.5	1.6	2	1	NS	NS	1.5	1.8	NS	1.5		5.3

Data from Alexandria, Bossier City, and two Winnsboro trials in 2018; and Alexandria, St Joseph, and Winnsboro in 2016 and 2017.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Rust is percent tissue of upper three leaves affected by leaf rust.

Bact Streak is bacterial streak (black chaff) rating with 0 = no damage and 9 = severe.

Leaf Blotch is severity of leaf infection by a combination of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = none to 9 = 100% leaf tissue damaged.

Phenotype: is a rating of overall visual apprearance. 0 = very poor and 9 = outstanding.

FHB data is from an inoculated and misted nursery. **FHB Score** is severity of Fusarium Headblight infection on a scale of 0 = none to 9 = 100% damaged florets/glumes. It is an estimate of proportion of florets infected. **FDK** (Fusarium Damaged Kernels) is percent of shriveled and discolored seed resulting from FHB. **DON** is parts per million of deoxynivalenol toxin.

AGS2055 was included as a medium-late check - also in the 'Normal Trial'.

LSU	Table 10. Early	y maturity whe	at performance t	rial at Alexandı	ria, LA for 2018	3.
Ao Center	Grain	Yield	Test	Head	Plant	Bird
Research · Extension · Teaching	2018	2-Yr	Wt	Day	Ht	Damage
Brand / variety	bu	ı/a	lbs/bu	of yr	in	%
DELTA GROW 3500	74.2	61.3	54.4	81	31.5	33
AGS 2038	77.0	60.9	55.2	86	39.0	3
AGS 2024	73.2	57.6	54.5	83	33.0	8
GO WHEAT LA754	57.8	55.3	55.9	83	34.0	5
DYNA-GRO SAVOY	47.3	54.8	51.0	76	29.0	30
AGS 2055	71.4	54.0	52.1	88	34.0	5
AGS 2040	57.3	53.3	55.0	76	34.0	73
PIONEER 26R94	56.3	51.6	55.7	83	31.5	20
AGS 3000	42.9	47.5	56.4	74	28.0	25
FLLA10033C-6	64.9		55.1	81	35.5	48
FLLA10191C-13	62.4		55.4	77	31.5	28
GO WHEAT 2032	61.7		58.0	85	34.0	3
USG 3120	57.0		56.6	81	33.5	38
AGS 3030	56.7		46.6	82	31.5	8
FLLA10204C-4	50.1		52.0	80	32.0	78
MEAN	62.3	55.3	54.3	81.0	32.8	27
CV(%)	15	16	4	3	4	82
LSD(0.10)	13.1	NS	2.6	3	2	39

Data from Dean Lee Research Station, Alexandria, LA. Boyd Padgett, Daniel Stephenson, Caitlin Woodard, and Darrell Franks.

Cultural and Site Information: Plots were somewhat variable due to bird damage and wet spots.

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

Bird Damage was significant and impacted yield on the earliest-heading entries. The correlation between heading date and bird damage was r=-0.55** The correlation between yield and heading day was r=0.67**.

AGS2055 was included as a medium-late check - also in the 'Normal Trial'.

Test Weights are low due to rainfall and delayed harvest.

LSU	Table 11. Early maturi	ity wheat performance t	trial at Bossier City, LA	for 2018.
Ag Center .	Grain	Test	Head	Plant
Research · Extension · Teaching	Yield	Wt	Day	Ht
Brand / variety	bu/a	lbs/bu	of yr	in
FLLA10033C-6	81.9	56.1	87	36
AGS 3030	74.1	56.8	88	33
PIONEER 26R94	70.7	59.8	86	37
AGS 2024	69.5	57.5	89	33
FLLA10191C-13	69.2	57.9	85	34
AGS 2038	68.5	59.8	94	35
AGS 2055	66.6	58.2	90	34
GO WHEAT LA754	65.3	58.8	86	34
FLLA10204C-4	64.0	56.7	88	33
DYNA-GRO SAVOY	63.7	58.0	85	32
DELTA GROW 3500	60.5	59.9	89	31
GO WHEAT 2032	52.6	59.1	89	33
AGS 3000	46.8	57.0	84	31
USG 3120	35.6	58.9	85	33
AGS 2040	17.2		85	33
MEAN	59.8	58.2	87	33
CV(%)	23	2	2	8
LSD(0.10)	18.1	1.3	2	3

Data from Red River Research Station, Bossier City, LA. Blair Buckley, Boyd Padgett, and William Waltman.

Cultural and Site Information: Sandy loam. Soybeans prior crop. 100# nitrogen on February 14. Harmony Extra @ .75oz/a on 11/29/17. Planted 11/7/17. Harvested 6/1/17.

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

AGS2055 was included as a medium-late check - also in the 'Normal Trial'.

	Table 12. Early	y maturity whe	at performance tr	ial in canal fiel	d at Winnsboro,	LA for 2018
Ag Center	Grain	Test	Relative	Lod	Leaf	Pheno
esearch · Extension · Teaching	Yield	Wt	Maturity	Score	Blotch	type
Brand / variety	bu/a	lbs/bu	0-9	0-9	0-9	0-9
PIONEER 26R94	114.3	62.2	5.0	0.0	1.0	5.5
GO WHEAT 2032	111.0	61.2	5.0	1.0	1.0	6.3
AGS 2055	110.0	61.8	5.0	0.0	3.0	6.0
USG 3120	109.7	64.4	4.8	0.5	1.0	5.5
DYNA-GRO SAVOY	105.5	61.1	5.5	0.5	3.0	5.5
DELTA GROW 3500	104.9	64.9	4.8	0.0	1.0	5.8
GO WHEAT LA754	102.3	61.2	5.0	0.5	2.0	5.5
FLLA10033C-6	101.3	61.2	5.0	0.0	2.0	5.0
AGS 2038	100.6	60.9	6.0	0.0	1.0	5.5
FLLA10191C-13	100.3	64.3	5.0	0.0	1.0	5.3
FLLA10204C-4	97.4	62.6	5.0	0.5	2.0	5.5
AGS 2040	96.7	63.1	4.8	0.0	2.0	5.8
AGS 2024	93.0	60.7	5.0	0.0	3.0	4.5
AGS 3030	88.1	59.9	5.0	0.0	2.0	4.8
AGS 3000	84.8	62.6	4.0	0.5	2.0	6.3
MEAN	101.3	62.2	5.0	0.2	1.8	5.5
CV(%)	7	4	9	175		7
LSD(0.10)	11.7	NS	NS	NS		0.7

Data from Macon Ridge Research Station. Steve Harrison, Kelly Arceneaux, Katie McCarthy Fontenot, Allysson Lunos, Myra Purvis, and Trey Price.

Cultural and Site Information: 75 square feet plot size; 2 reps. Planted 11-10-17; harvested 5-21-18. 110-0-0 topdress as 30-0-0-2 on ~Feb 12. Excellent growing season with very high yields and test weight. Cool winter (3x chilling as 2017). Cool April with excellent grain fill giving very plump seeds. Minimal disease pressure.

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

Relative Maturity where 0 = extremely early; 3 = early; 5 = average heading date; 7 = late; 9 = did not head.

Lod score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Blotch is severity of leaf infection by a combinaiton of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = 100% leaf tissue damaged.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

AGS2055 was included as a medium-late check - also in the 'Normal Trial'.

 $\ensuremath{\mathbf{NS}}$ indicates that variety mean difference were not statistically significant.

LSU	Table 13. E	arly maturi	ty wheat per	formance tı	rial at Winns	sboro, LA fo	r 2018.	
Ag Center	Grain	Yield	Test	Rel	Plant	Lod	Leaf	Pheno
Research · Extension · Teaching	2018	2-Yr	Wt	Mat	Ht	Score	Blotch	type
Brand / variety	bu	/a	lbs/bu	0-9	in	0-9	0-9	0-9
	40.			• •		4.0		
DELTA GROW 3500	102.2	90.4	63.1	2.0	35	1.0	1.0	7.0
AGS 2055	96.8	89.3	60.6	6.0	39	0.0	1.0	6.5
AGS 2024	103.5	86.9	61.2	5.0	35	1.0	1.0	7.0
AGS 2038	95.5	85.2	62.6	6.0	41	3.0	2.0	6.0
DYNA-GRO SAVOY	98.9	80.5	61.8	4.0	38	5.0	1.0	5.5
GO WHEAT LA754	92.4	80.1	62.0	5.0	37	1.0	2.0	6.5
PIONEER 26R94	85.5	76.7	59.4	5.0	40	0.0	1.0	6.5
AGS 2040	82.5	72.9	58.2	4.5	38	3.0	3.0	6.0
AGS 3000	74.7	72.2	55.9	4.0	36	4.0	2.0	5.0
GO WHEAT 2032	99.4		62.8	5.5	39	0.0	2.0	6.5
FLLA10033C-6	95.4		61.4	5.0	39	3.0	2.0	6.0
USG 3120	94.3		62.7	4.0	38	4.0	3.0	5.5
FLLA10204C-4	94.3		61.3	5.0	39	0.0	2.0	6.5
AGS 3030	87.1		60.4	5.0	36	3.0	1.0	6.0
FLLA10191C-13	84.2		60.3	4.5	36	1.0	2.0	5.5
MEAN	82.6	81.7	60.9	4.7	38	1.9	1.7	6.1
CV(%)	6	10	4		3			
LSD(0.10)	3.8	NS	3.8		2			

Data from Macon Ridge Research Station, Winnsboro, LA. Rick Mascagni, Steve Harrison, Kelly Arceneaux, Katie McCarthy Fontenot, Allysson Lunos, Trey Price, Myra Purvis.

Cultural and Site Information: Excellent trial. Planted 11-10-17; harvested 5-21-18. Cool and dry April with very little disease pressure or other stress.

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

Rel Mat is relative maturity where 0 = extremely early; 3 = early; 5 = average heading date; 7 = late; 9 = did not head.

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Blotch is severity of leaf infection by a combinaiton of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = none to 9 = 100% leaf tissue damaged.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

AGS2055 was included as a medium-late check - also in the 'Normal Trial'.

earch - Extension - Teaching rand / variety GA08535-15LE29 AGS 2055 LA08080C-31-1	Yield bu/a	Wt	ъ.						
GA08535-15LE29 AGS 2055	bu/a		Day	Mat	Ht	Score	Blotch	Streak	type
AGS 2055		lbs/bu	of yr	0-9	in	0-9	0-9	0-9	0-9
	92.3	60.9	85	4.5	37	0.4	1.0	0.9	6.0
LA08080C-31-1	91.6	58.8	90	6.0	37	0.3	2.0	0.8	5.7
	88.2	59.3	87	5.0	35	0.4	1.5	1.1	6.0
SY VIPER	88.1	58.0	88	5.5	39	0.9	1.0	0.0	5.3
PIONEER 26R59	87.1	55.6	90	6.0	34	0.4	1.0	0.0	5.5
SY HARRISON	86.9	57.3	92	7.0	36	0.3	1.0	0.0	5.3
SY MISKIN	85.6	59.5	88	5.0	38	1.0	2.5	0.8	5.3
PROGENY #FURY	85.3	59.5	88	6.0	35	0.3	1.5	0.6	6.0
LCS L11713	85.2	60.5	88	5.0	35	0.4	1.5	0.3	5.7
AGS 3040	84.7	57.2	84	5.5	37	0.5	1.0	1.0	6.0
PROGENY AG PGX16-4	84.5	59.2	86	5.5	37	0.4	1.5	0.0	6.0
DYNA-GRO TV8861	83.9	57.7	92	7.0	35	0.4	1.0	0.0	5.0
PROGENY AG #BOSS	83.9	57.5	91	6.5	35	0.3	2.0	0.0	5.2
DYNA-GRO 9701	83.6	58.4	93	6.5	39	0.4	2.0	0.0	5.2
HILLIARD	83.4	60.0	88	6.0	38	0.4	1.0	0.3	6.0
PROGENY AG PGX16-7	83.3	58.7	86	5.0	35	0.6	1.0	0.6	6.0
SY COLLINS	83.0	59.6	84	5.0	39	0.3	1.5	3.5	5.3
USG 3118	82.7	58.2	86	6.0	34	0.6	2.5	0.7	5.0
LA01110D-150-241	82.6	58.4	84	5.0	37	0.3	1.5	1.3	6.0
GA081446-15EL47	82.1	60.3	82	5.0	36	0.5	1.0	0.9	6.2
GA081113-15EL8	81.7	60.3	84	5.0	36	0.3	2.0	1.0	5.7
PIONEER 26R45	81.5	56.2	92	7.0	38	0.3	1.0	0.0	5.7
LA08281D-7-5	81.1	59.1	87	5.0	34	0.3	1.0	0.1	6.2
AGS 2038	81.1	59.6	89	6.0	40	0.4	1.5	0.1	5.3
VA12W-68	80.8	59.1	87	5.0	34	0.4	2.0	0.2	6.0
LA09083C-7-4	80.8	58.8	84	5.0	34	0.3	1.5	0.1	6.5
LA09225C-33-3	80.0	59.4	86	6.5	37	0.3	1.0	0.0	5.7
DYNA-GRO 9811	79.8	59.6	91	5.0	37	0.3	1.0	0.2	6.0
AGRIMAXX 480	79.5	60.5	86	5.5	38	0.6	1.0	0.7	5.5
GO WHEAT LA754	79.4	59.3	84	5.5	37	0.5	1.5	0.8	6.0
USG 3536	79.3	56.9	94	7.0	38	0.4	1.0	0.0	5.2
AR06146E-1-4	79.3	60.9	86	5.0	39	0.3	2.0	0.9	6.3
PIONEER 26R41	79.3	59.0	92	6.5	33	0.3	1.5	0.0	5.7
PROGENY AG #BULLET	79.2	57.3	94	6.5	37	0.4	1.0	0.0	5.0
AGRIMAXX 415	79.1	59.2	91	6.5	35	0.3	1.5	0.0	4.7
GA061471-15LE38	78.2	60.3	88	5.0	38	0.8	1.5	0.2	5.0
AGRIMAXX 473	78.0	57.9	93	6.5	39	0.3	1.0	0.0	5.2
PROGENY AG #TURBO	77.2	58.0	88	5.5	35	0.4	0.5	0.0	5.2
DELTA GROW 1000	77.1	58.1	94	6.0	38	0.4	1.0	0.3	5.0
LA12275LDH-128	76.4	60.5	87	5.0	40	0.4	1.5	0.3	5.5
LA01110D-150-625	73.6	59.4	83	5.0	36	0.4	1.0	0.0	5.8
LA09050C-P4	72.0	57.5	82	5.0	36	0.8	2.5	0.0	5.3
LA10070GHB-88	71.7	59.5	87	5.0	38	0.6	1.0	0.5	5.5
NC13-20076	71.2	60.8	87	5.0	36	0.9	1.5	0.0	4.8
LA13235LDH-40	67.9	59.8	85	5.0	35	1.1	2.5	0.8	5.3
MEAN	81.2	58.9	88	5.6	36	0.4	1.4	0.4	5.6
CV(%)	12	2	3		5	69			14

Data from Alexandria, Bossier City, St. Joseph and two Winnsboro trials.

 $\textbf{Comments:} \ Generally \ excellent \ growing \ conditions. \ April \ was \ cool \ and \ relativley \ dry \ with \ minimal \ disease \ pressure.$

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

Rel Mat is relative maturity where 0 = extremely early; 3 = early; 5 = average heading date; 7 = late; 9 = did not head.

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Blotch is severity of leaf infection by a combinaiton of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = none to 9 = 100% leaf tissue damaged.

Bact Streak is bacterial streak (black chaff) rating with 0 = no damage and 9 = severe.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

LSU	Table 15 2017 and		maturity	wheat po	erforman	ce trial a	cross Nort	th Louisia	ına for tw	o years,
Ag(Center	Grain	Test	Head	Plant	Lod	Leaf	Bact	Pheno	FHB	FDK
Research · Extension · Teaching	Yield	Wt	Day	Ht	Score	Rust	Streak	type	Score	
Brand / variety	bu/a	lbs/bu	of yr	in	0-9	%	0-9	0-9	0-9	%
AGS 2055	87.0	58.5	90	37	0.5	0	1.4	5.9	0.3	63
PROGENY #FURY	79.8	58.7	88	35	0.5	1	0.9	6.0	2.8	45
PROGENY AG PGX16-4	79.1	59.0	87	37	0.6	0	0.7	6.0	0.9	55
LA01110D-150-241	78.6	57.8	84	36	0.5	0	1.7	6.1	5.0	50
VA12W-68	77.3	58.4	85	34	0.6	1	0.8	6.4	0.6	30
AGS 2038	77.2	58.9	89	40	0.6	0	0.8	5.9	1.0	40
GO WHEAT LA754	76.5	58.6	83	36	0.8	3	1.1	6.0	1.7	38
DYNA-GRO 9701	75.2	57.7	93	39	0.6	3	0.0	4.7		
HILLIARD	74.6	58.9	89	38	0.6	4	0.6	5.6	1.1	23
SY VIPER	74.4	57.2	90	39	2.8	9	0.0	4.8	0.6	25
USG 3536	74.1	56.3	94	39	0.6	4	0.0	4.7	0.1	10
DYNA-GRO 9811	73.7	58.8	90	37	0.5	3	0.5	5.7	1.3	38
DELTA GROW 1000	72.7	57.6	94	38	0.5	0	0.3	4.8	4.5	5
LA01110D-150-625	72.7	58.7	83	36	0.6	0	0.5	6.3	1.5	43
PIONEER 26R59	72.7	55.1	91	33	1.2	24	0.0	4.7	2.4	15
PROGENY AG #TURBO	72.6	57.4	88	35	0.6	0	0.2	5.0	2.5	10
PIONEER 26R41	72.5	58.4	93	33	0.5	4	0.4	5.1	0.3	30
PROGENY AG #BULLET	72.4	56.9	94	37	0.6	2	0.0	5.0	0.1	15
PROGENY AG #BOSS	70.9	56.9	91	34	1.9	14	0.0	4.1	0.0	10
SY HARRISON	70.7	56.9	92	35	2.1	26	0.0	4.2	4.2	15
AGRIMAXX 473	70.2	57.5	93	38	0.5	1	0.0	4.6	0.7	8
AGRIMAXX 415	68.9	58.3	91	34	0.8	14	0.8	4.1	1.3	28
MEAN	74.8	57.9	90	36	0.8	5	0.5	5.3	1.6	31
CV(%)	12	2	2	5	89		78	9		
LSD(0.10)	NS	1.1	4	2	NS		NS	1.0		

Data from 2018 Alexandria, Bossier City, St. Joseph, two Winnsboro trials; and 2017 Winnsboro.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Rust is percent tissue of upper three leaves affected by leaf rust.

Bact Streak is bacterial streak (black chaff) rating with 0 = no damage and 9 = severe.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

FHB data is from an inoculated and misted nursery. **FHB Score** is severity of Fusarium Headblight infection on a scale of 0 = none to 9 = 100% damaged florets/glumes. It is an estimate of proportion of florets infected. **FDK** (Fusarium Damaged Kernels) is percent of shriveled and discolored seed resulting from FHB.

LSU	Table 16 2017, and		maturity	wheat p	erforman	ce trial ac	ross Nor	th Louisia	na for th	ree years	, 2016,
AgCenter Research · Extension · Teaching	Grain Yield	Test Wt	Head Day	Plant Ht	Lod Score	Stripe Rust	Leaf Rust	Bact Streak	Pheno type	FHB Score	FDK
Brand / variety	bu/a	lbs/bu	of yr	in	0-9	%	%	0-9	0-9	0-9	%
AGS 2055	77.8	56.1	92	38	0.5	0	0	1.0	5.1	0.1	48
LA01110D-150-241	74.2	57.2	88	37	0.4	3	0	0.7	5.4	2.2	32
AGS 2038	70.2	57. 5	90	40	0.3	3	0	0.5	5.4	2.5	32
PROGENY AG #TURBO	69.5	57.0	91	35	0.4	0	0	0.1	4.9	0.8	10
HILLIARD	67.4	56.8	92	38	0.8	0	1	0.6	5.1	0.4	26
LA01110D-150-625	66.3	58.1	86	37	1.0	0	0	0.2	5.6	1.2	20
DELTA GROW 1000	64.8	56.3	99	38	1.2	0	0	0.2	4.7	0.9	11
PROGENY AG #BULLET	63.1	55.8	100	38	1.1	1	0	0.0	4.6	0.0	12
PIONEER 26R41	62.3	56.6	97	34	0.9	0	4	0.2	5.1	0.1	29
SY VIPER	61.0	55.5	93	39	3.2	0	30	0.0	4.6	0.4	20
PIONEER 26R59	56.5	51.8	95	33	1.7	0	31	0.0	4.8	0.8	22
AGRIMAXX 415	55.7	55.6	95	35	1.8	1	19	0.3	4.5	0.4	28
SY HARRISON	52.8	53.3	98	36	2.5	0	40	0.0	4.7	0.8	25
MEAN	64.8	56.0	93	37	1.2	1	10	0.3	5.0	0.8	24
CV(%)	14	2	2	5	114	151	63	111	11	89	38
LSD(0.10)	9.2	1.8	2	2	0.9	NS	17	NS	NS	NS	10

Data from 2018 Alexandria, Bossier City, St. Joseph, two Winnsboro trials; 2017 Winnsboro; and 2016 Alexandria, St. Joseph, and Winnsboro.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf and Stripe Rust are percent tissue of upper three leaves affected by rust.

Bact Streak is bacterial streak (black chaff) rating with 0 = no damage and 9 = severe.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

FHB data is from an inoculated and misted nursery. **FHB Score** is severity of Fusarium Headblight infection on a scale of 0 = none to 9 = 100% damaged florets/glumes. It is an estimate of proportion of florets infected. **FDK** (Fusarium Damaged Kernels) is percent of shriveled and discolored seed resulting from FHB.

o Center	Grain	Test	Head	Plant	Lod	Bact	Bird
earch · Extension · Teaching	Yield	Wt	Day	Ht	Score	Streak	Damag
Brand / variety	bu/a	lbs/bu	of yr	in	0-9	0-9	%
SY HARRISON	106.8	54.5	92	33	1.0	0.0	10
GA08535-15LE29	105.2	58.5	82	38	1.0	0.9	0
LA08080C-31-1	104.8	57.6	85	37	1.0	1.1	8
PIONEER 26R59	102.5	49.0	88	33	1.0	0.0	0
LA01110D-150-241	102.2	56.6	80	38	1.0	1.3	0
AGS 3040	99.7	53.1	83	36	1.0	1.0	8
SY VIPER	97.4	52.5	87	38	2.5	0.0	3
AGS 2055	96.5	57.7	87	37	1.0	0.8	3
HILLIARD	96.2	59.9	86	38	1.0	0.3	3
LA09050C-P4	93.1	58.6	78	39	2.0	0.0	3
GA081113-15EL8	92.9	59.0	82	37	1.0	1.0	0
LA12275LDH-128	92.2	59.8	85	37	1.0	0.3	3
GO WHEAT LA754	92.0	58.4	79	38	1.5	0.8	0
PIONEER 26R41	91.7	57.4	91	31	1.0	0.0	5
LA09083C-7-4	91.2	56.3	82	34	1.0	0.1	0
USG 3536	90.5	54.3	93	39	1.5	0.0	5
AGRIMAXX 415	89.2	58.0	90	34	1.0	0.0	0
GA081446-15EL47	89.2	58.2	79	37	1.0	0.9	8
LA08281D-7-5	89.1	57.3	84	36	1.0	0.1	0
PROGENY AG #BOSS	89.1	55.9	91	35	1.0	0.0	0
DYNA-GRO 9701	88.6	57.3	91	39	1.0	0.0	8
PROGENY AG PGX16-4	88.2	55.9	84	37	1.0	0.0	0
LCS L11713	88.0	59.0	86	34	1.0	0.3	0
USG 3118	87.5	55.5	83	34	2.0	0.7	0
AR06146E-1-4	87.0	60.9	82	41	1.0	0.7	0
SY MISKIN	86.7	57.7	86	37	1.5	0.9	3
VA12W-68	86.0		84	35	1.5	0.2	3
PROGENY AG PGX16-7	85.8	56.9	84 84		2.0		0
		57.1	92	36		0.6	
PIONEER 26R45	84.6	52.1		38	1.0	0.0	5
PROGENY AG #BULLET	83.4	55.0	95	34	1.0	0.0	18
PROGENY #FURY	82.4	56.7	86	35	1.0	0.6	5
SY COLLINS	82.2	57.5 59.3	81	39	1.0	3.5	3
DYNA-GRO 9811	81.4	58.3	90	35	1.0	0.2	3
AGRIMAXX 480	81.4	58.6	83	36	1.5	0.7	0
LA09225C-33-3	80.9	56.8	81	38	1.0	0.0	3
GA061471-15LE38	80.7	58.5	84	36	1.0	0.2	3
AGS 2038	80.5	57.8	88	38	1.0	0.1	5
DYNA-GRO TV8861	80.1	54.4	93	31	1.0	0.0	3
DELTA GROW 1000	78.8	55.7	94	39	1.0	0.3	5
AGRIMAXX 473	77.0	56.5	94	37	1.0	0.0	20
NC13-20076	76.4	60.9	84	37	1.5	0.0	0
LA01110D-150-625	75.5	57.6	80	36	1.0	0.0	5
LA10070GHB-88	74.2	60.3	85	37	1.5	0.5	5
PROGENY AG #TURBO	74.1	56.4	86	34	1.0	0.0	0
LA13235LDH-40	66.8	58.3	84	32	2.0	0.8	0
MEAN	87.5	57.0	86	36	1.2	0.4	3.3
CV(%)	16	3	4	7	30	165	161

Data from Dean Lee Research Station, Alexandria, LA. Boyd Padgett, Daniel Stephenson, Caitlin Woodard, and Darrell Franks.

Cultural and Site Information: Plots were somewhat variable due to bird damage and wet spots.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Bact Streak is bacterial streak (black chaff) rating with 0 = no damage and 9 = severe.

Bird Damage was significant and impacted yield on the earliest-heading entries. The correlation between heading date and bird damage was r=-0.55** The correlation between yield and heading day was r=0.67**.

(Center	Grain	Test	Head	Plant
search · Extension · Teaching	Yield	Wt	Day	Ht
Brand / variety	bu/a	lbs/bu	of yr	in
A GG 2040	04.0	762	07	26
AGS 3040	84.0	56.3	87	36
AGS 2055	79.1	57.8	92	35
AR06146E-1-4	76.2	58.5	90	35 2 -
SY COLLINS	75.7 75.2	57.8	89	37
PROGENY AG #BULLET	75.3	55.7	93	33
PROGENY AG PGX16-4	75.2	58.0	90	35
LA08080C-31-1	74.6	57.8	91	33
DYNA-GRO TV8861	74.1	57.5 50. 5	92	34
GO WHEAT LA754	73.5	58.7	88	36
SY HARRISON	72.4	56.4	93	32
USG 3536	72.1	56.6	96	36
PIONEER 26R45	71.5	56.4	91	36 37
SY VIPER	71.5	59.2	90	37
PROGENY #FURY	69.9	57.5 -	91	33
PROGENY AG #BOSS	68.9	56.6	92	31
GA08535-15LE29	68.8	60.4	89	34
SY MISKIN	68.7	58.5	91	37
DYNA-GRO 9701	68.5	56.4	95	36
AGRIMAXX 473	68.2	57.1	92	36
AGRIMAXX 415	68.1	58.3	91	33
LA10070GHB-88	67.3	58.1	90	35
LA01110D-150-625	66.4	58.5	89	36
GA081446-15EL47	65.3	59.6	87	34
HILLIARD	64.4	58.5	92	33
AGS 2038	64.1	59.8	92	40
LA08281D-7-5	63.8	58.2	90	31
LA13235LDH-40	63.8	59.8	89	33
NC13-20076	63.4	59.8	90	36
LA12275LDH-128	63.1	58.6	91	39
PROGENY AG PGX16-7	62.7	58.3	89	33
LA09225C-33-3	62.4	59.4	93	34
PROGENY AG #TURBO	62.0	56.3	91	32
PIONEER 26R41	61.1	58.7	93	29
GA061471-15LE38	60.8	60.4	91	36
DELTA GROW 1000	60.5	57.1	95	33
LCS L11713	59.2	58.3	92	31
AGRIMAXX 480	57.6	59.4	90	35
GA081113-15EL8	55.7	59.4	89	32
PIONEER 26R59	55.6	55.7	95	32
DYNA-GRO 9811	55.4	58.0	91	32
LA09050C-P4	55.3	58.9	87	34
LA09083C-7-4	55.0	57.6	88	31
USG 3118	53.4	57.3	91	31
LA01110D-150-241	52.4	58.0	91	36
VA12W-68	49.4	57.7	90	30
MEAN	66.1	58.1	91	34
CV(%)	15	2	2	6
LSD(0.10)	14.6	1.0	2	3

Data from Red River Research Station, Bossier City, LA. Blair Buckley, Boyd Padgett, and William Waltman.

Cultural and Site Information: Sandy loam. Soybeans prior crop. 100# nitrogen on February 14. Harmony Extra @ .75oz/a on 11/29/17. Planted 11/7/17. Harvested 6/1/17.

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

Contor	Grain	heat performance trial at St. Jo Test	Plant
arch · Extension · Teaching	Yield	Wt	Ht
rand / variety	bu/a	lbs/bu	in
GG 2055	01.5	7 (0	20
AGS 2055	81.2	56.2	38
GA08535-15LE29	77.0	59.6	37
CS L11713	75.4	59.0	38
/A12W-68	74.9	57.7	36
A08080C-31-1	73.0	57.4	35
SY MISKIN	72.8	58.3	41
A08281D-7-5	72.1	56.9	36
PROGENY #FURY	70.4	58.8	35
A01110D-150-241	70.1	57.4	37
GS 2038	68.3	58.1	42
Y COLLINS	67.4	57.7	42
ROGENY AG #BOSS	66.2	54.9	39
A09083C-7-4	66.0	56.9	36
OYNA-GRO TV8861	65.2	57.3	38
PROGENY AG #TURBO	65.1	56.7	37
SY VIPER	62.6	57.8	42
PIONEER 26R59	62.4	55.8	34
_A09225C-33-3	62.3	56.8	38
OYNA-GRO 9701	61.5	56.5	41
JSG 3118	61.0	56.6	35
GA081113-15EL8	59.9	58.5	39
GA081446-15EL47	59.5	58.7	38
ROGENY AG PGX16-7	59.3	56.6	35
ROGENY AG PGX16-4	59.2	58.3	37
YNA-GRO 9811	58.9	57.5	42
Y HARRISON	58.3	55.4	39
AGS 3040	57.5	56.6	37
GRIMAXX 415	57.4	56.6	34
GA061471-15LE38	56.9	58.4	41
AR06146E-1-4	56.0	58.7	41
AGRIMAXX 480	54.6	58.6	41
HILLIARD	54.2	56.9	41
IC13-20076	53.8	59.3	37
PIONEER 26R41	53.7	56.0	37
_A09050C-P4	53.6	57.8	36
A01110D-150-625	51.3	57.5	38
A12275LDH-128	51.3	58.9	42
O WHEAT LA754	50.3	56.9	38
GRIMAXX 473	47.7	55.6	42
PROGENY AG #BULLET	47.6	55.5	40
DELTA GROW 1000	47.1	57.5	43
IONEER 26R45	45.9	54.1	38
A10070GHB-88	43.2	56.2	40
A13235LDH-40	36.4	57.1	37
JSG 3536	35.9	54.9	40
MEAN	59.6	57.2	35
CV(%)	14	2	4
LSD(0.10)	10.0	1.3	3

o Center	Grain	Test	Rel	Lod	Leaf	Pheno
rch · Extension · Teaching	Yield	Wt	Mat	Score	Blotch	type
Brand / variety	bu/a	lbs/bu	0-9	0-9	0-9	0-9
PIONEER 26R45	107.4	59.0	6.8	0.0	2.0	5.5
GRIMAXX 480	107.2	64.5	5.3	0.5	1.0	5.3
Y MISKIN	105.3	60.8	5.5	0.0	2.0	5.5
GS 2055	105.2	61.7	5.8	0.0	2.0	5.5
ROGENY AG PGX16-4	105.0	61.4	5.3	0.5	2.0	5.5
A09225C-33-3	104.8	61.4	6.3	0.0	1.0	5.3
YNA-GRO TV8861	104.7	58.8	6.8	0.5	1.0	5.0
GA081446-15EL47	104.1	62.9	5.0	1.0	1.0	6.0
PIONEER 26R59	104.1	57.8	6.8	0.5	1.0	5.0
ROGENY #FURY	104.0	60.9	6.8	0.0	2.0	5.5
Y HARRISON	103.9	57.9	6.8	0.0	1.0	5.0
IILLIARD	103.7	60.9	6.0	0.5	1.0	6.0
ROGENY AG PGX16-7	103.0	59.1	5.5	0.0	1.0	5.8
YNA-GRO 9811	102.4	60.9	6.0	0.0	1.0	5.8
GA08535-15LE29	101.6	62.2	5.0	0.5	1.0	5.8
DELTA GROW 1000	101.5	57.8	7.5	0.5	1.0	4.8
A01110D-150-241	100.8	59.4	5.0	0.0	1.0	5.5
JSG 3536	100.7	57.3	7.3	0.0	1.0	5.0
JSG 3118	100.1	59.9	5.0	0.0	4.0	4.8
O WHEAT LA754	100.1	62.6	4.8	0.5	2.0	6.0
AGS 2038	100.1	59.5	6.8	0.5	1.0	5.0
Y COLLINS	99.9	62.8	5.0	0.0	2.0	5.3
Y VIPER	99.4	60.2	6.3	0.0	1.0	5.0
A08080C-31-1	99.0	59.3	6.0	0.5	1.0	5.5
A01110D-150-625	98.7	62.2	5.3	0.5	1.0	5.5
AGRIMAXX 473	98.4	59.4	6.8	0.0	1.0	4.8
PROGENY AG #BOSS	98.2	60.0	6.5	0.0	3.0	5.0
GA061471-15LE38	98.0	62.0	5.5	0.5	2.0	4.5
PIONEER 26R41	97.9	61.2	7.0	0.0	1.0	5.5
/A12W-68	97.8	61.7	5.0	0.0	3.0	5.5
GRIMAXX 415	97.7	61.6	6.5	0.0	2.0	4.3
CS L11713	95.8	63.0	4.8	0.5	2.0	5.8
OYNA-GRO 9701	95.8	58.8	7.5	0.5	3.0	4.8
GA081113-15EL8	95.7	63.3	4.8	0.0	3.0	5.5
A09083C-7-4	95.3	61.2	4.8	0.0	1.0	6.3
GS 3040	94.3	58.8	5.0	0.5	1.0	6.0
A10070GHB-88	92.9	62.9	4.8	0.0	1.0	5.5
A09050C-P4	92.7	57.8	4.5	1.0	2.0	5.5
ROGENY AG #BULLET	91.4	58.5	7.3	0.5	1.0	4.5
R06146E-1-4	91.3	63.0	5.3	0.0	3.0	6.0
A08281D-7-5	91.1	61.8	6.0	0.0	0.0	5.8
A13235LDH-40	90.6	62.7	4.8	1.0	4.0	5.0
.A12275LDH-128	89.7	62.0	5.3	0.5	2.0	5.3
IC13-20076	88.7	63.0	5.3	0.0	2.0	4.8
PROGENY AG #TURBO	88.7	58.6	5.5 5.5	0.5	0.0	4.8
MEAN	99.1	60.6	5.8	0.3	1.6	5.3
CV(%)	5	2	5.6 7	166	1.0	3.3 15
LSD(0.10)	7.8	2.3	0.7	NS		NS

Data from Macon Ridge Research Station at Winnsboro, LA. Steve Harrison, Trey Price, Myra Purvis, Kelly Arceneaux, Allysson Lunos, and Katie McCarthy Fontenot.

Cultural and Site Information: 75 square feet plot size; 2 reps. Planted 11-10-17; harvested 5-21-18. 110-0-0 topdress as 30-0-0-2 on ~Feb 12. Excellent growing season with very high yields and test weight. Cool winter (3x chilling as 2017). Cool April with excellent grain fill giving very plump seeds. Minimal disease pressure.

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

Rel Mat is relative maturity where 0 = extremely early; 3 = early; 5 = average heading date; 7 = late; 9 = did not head.

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Blotch is severity of leaf infection by a combinaiton of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = none to 9 = 100% leaf tissue damaged.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

 $\ensuremath{\mathbf{NS}}$ indicates that variety mean difference were not statistically significant.

(center	Grain	Yield	Test	Plant	Rel	Lod	Leaf	Pheno
search · Extension · Teaching	2018	2-Yr	Wt	Ht	Mat	Score	Blotch	type
Brand / variety	bu	/a	lbs/bu	in	0-9	0-9	0-9	0-9
AGS 2055	99.5	83.7	61.8	38	6.0	0.0	2.0	6.0
DELTA GROW 1000	106.2	81.8	61.7	42	6.0	0.0	1.0	5.5
PROGENY #FURY	101.6	79.6	62.7	38	6.0	0.0	1.0	7.0
VA12W-68	96.5	79.6	62.3	36	5.0	0.0	1.0	7.0
PROGENY AG PGX16-4	102.7	79.3	62.2	39	5.5	0.0	1.0	7.0
AGS 2038	97.8	79.2	62.5	41	6.0	0.0	2.0	6.0
USG 3536	106.2	79.1	61.3	41	7.0	0.0	1.0	5.5
LA01110D-150-625	85.2	77.8	62.2	37	5.0	0.0	1.0	6.5
GO WHEAT LA754	90.0	77.2	61.5	38	5.5	0.0	1.0	6.0
DYNA-GRO 9811	106.0	76.8	63.3	41	5.0	0.0	1.0	6.5
LA01110D-150-241	89.2	75.3	61.0	37	5.0	0.0	2.0	7.0
PROGENY AG #BULLET	103.5	75.1	61.8	42	6.5	0.0	1.0	6.0
PROGENY AG #TURBO	94.3	74.3	61.6	37	5.5	0.0	1.0	6.0
DYNA-GRO 9701	103.4	73.7	61.9	42	6.5	0.0	1.0	6.0
PIONEER 26R41	100.0	72.7	62.6	36	6.5	0.0	2.0	6.0
AGRIMAXX 473	106.0	72.6	61.6	42	6.5	0.0	1.0	6.0
HILLIARD	99.3	69.4	63.6	39	6.0	0.0	1.0	6.0
SY VIPER	111.2	63.6	61.9	42	5.5	2.0	1.0	6.0
PIONEER 26R59	103.6	59.3	60.9	36	6.0	0.0	1.0	6.5
PROGENY AG #BOSS	100.4	58.1	61.2	37	6.5	0.0	1.0	5.5
AGRIMAXX 415	89.6	57.6	62.5	39	6.5	0.0	1.0	5.5
SY HARRISON	99.5	54.4	61.3	39	7.0	0.0	1.0	6.0
PIONEER 26R45	108.8	34.4	60.9	41	7.0	0.0	0.0	6.0
GA08535-15LE29	107.7		64.2	39	4.5	0.0	1.0	6.5
USG 3118	107.7		62.2	35	6.0	0.0	1.0	5.5
PROGENY AG PGX16-7	105.2		62.4	37	5.0	0.0	1.0	6.5
DYNA-GRO TV8861	103.2		61.0	40	7.0	0.0	1.0 1.0	5.0
GA081113-15EL8	103.3		62.9	40 36	5.0	0.0	1.0	6.0
GA061471-15LE38	101.9 100.4		62.9 63.3	41	5.0	3.0	1.0 1.0	6.0
	100.4		62.7	38	5.0	5.0	3.0	5.0
SY MISKIN	99.9			37	5.0	0.0	1.0	5.5
LCS L11713			63.5					
AGRIMAXX 480	99.7		64.1	41	5.5	0.0	1.0	6.0
GA081446-15EL47	99.2		63.4	35 39	5.0	0.0	1.0	6.5
LA09225C-33-3	97.5 96.5		63.7		6.5 5.5	0.0 1.0	1.0 1.0	6.5 6.0
AGS 3040 SY COLLINS	96.3		61.6	41 41	5.0	0.0	1.0	5.5
	9 6.3 95.7			41 37	5.0 5.0	0.0	2.0	5.5 7.0
LA08080C-31-1	95.7 93.2		63.2 63.7	37 41	5.0	0.0	2.0 1.0	7.0
AR06146E-1-4	93.2		63.7	41 37	5.0	0.0	2.0	7.0
LA09083C-7-4								
LA08281D-7-5	92.6		63.0	35	5.0	0.0	2.0	7.0
LA13235LDH-40	91.1		62.5	39	5.0	2.0	1.0	6.0
LA10070GHB-88	90.3		61.3	41	5.0	1.0	1.0	5.5
LA12275LDH-128	89.8		63.1	41	5.0	0.0	1.0	6.0
NC13-20076	85.0		62.4	36	5.0	3.0	1.0	5.0
LA09050C-P4	76.7	53.5	55.0	35	5.0	0.0	3.0	5.0
MEAN	98.3	72.7	62.2	38	5.6	0.4	1.2	6.1
CV(%)	5 5.9	9 NS	2 1.7	3 2				

Data from Macon Ridge Research Station at Winnsboro, LA. Rick Mascagni, Steve Harrison, Trey Price, Myra Purvis, Kelly Arceneaux, Allysson Lunos, and Katie McCarthy Fontenot.

Cultural and Site Information: Excellent trial. Planted 11-10-17; harvested 5-21-18. Cool and dry April with very little disease pressure or other stress.

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

Rel Mat is relative maturity where 0 = extremely early; 3 = early; 5 = average heading date; 7 = late; 9 = did not head.

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Leaf Blotch is severity of leaf infection by a combinaiton of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = none to 9 = 100% leaf tissue damaged.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc.

\gCenter	Grain	Test	Lod	Rel	Leaf	Pheno	FHB
esearch · Extension · Teaching	Yield	Wt	Score	Mat	Blotch	type	Score
Brand / variety	bu/A	lbs/bu	0-9	0-9	0-9	0-9	0-9
LA754 CHECK	75.5	60.0	1.0	5.0	1.0	6.5	1.0
AGS2055 CHECK	73.1	59.1	1.0	6.0	1.0	6.0	1.0
SX4435	71.9	55.8	1.5	6.0	1.0	6.5	1.0
SX4820	69.6	57.5	2.0	5.0	3.0	5.0	3.0
AgriMax 481	67.2	59.0	2.0	5.0	1.0	6.0	1.0
LA14066LDH-102	66.9	58.9	1.0	6.0	1.0	6.0	1.0
Armor ARW1714	66.6	59.3	2.0	5.0	1.0	6.0	1.0
LA12257SB-69-4	65.5	55.6	1.5	5.0	1.0	6.5	1.0
LA14066LDH-82	62.2	59.3	2.0	4.0	2.0	5.0	2.0
SX 2209	61.7	55.1	1.5	6.0	2.0	6.0	2.0
SX4786	59.3	57.5	2.5	5.0	2.0	6.0	2.0
LA12275DH-102	55.6	58.2	2.0	4.0	3.0	4.5	3.0
AGS3000 CHECK	54.1	60.4	1.0	3.0	2.0	6.0	2.0
LA14066LDH-52	49.0	53.8	1.5	4.0	2.0	5.0	2.0
LA14066LDH-61	48.6	60.2	2.0	4.0	5.0	4.0	5.0
MEAN	63.1	57.9	1.6	4.9	1.9	5.7	1.9
CV(%)	9	5	41				
LSD(0.10)	11.6	6.4	1.4				

Data from LSU AgCenter Central Station Ben Hur Research Farm, Baton Rouge, LA. Steve Harrison, Kelly Arceneaux, Allysson Lunos, and Katie McCarthy Fontenot.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Rel Mat is relative maturity where 0 = extremely early; 3 = early; 5 = average heading date; 7 = late; 9 = did not head. Average of 2 ratings in April.

Leaf Blotch is severity of leaf infection by a combinaiton of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = none to 9 = 100% leaf tissue damaged. Late season rating.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc. Average of 4 ratings taken after heading.

FHB data is from an inoculated and misted nursery. **FHB Score** is severity of Fusarium Headblight infection on a scale of 0 = none to 9 = 100% damaged florets/glumes.

LSU	Table 23. Whea	at screening nurs	ery at Winnsbo	ro, LA for 2018		
Ao Center	Grain	Test	Lod	Rel	Leaf	Pheno
Research · Extension · Teaching	Yield	Wt	Score	Mat	Blotch	type
Brand / variety	bu/A	lbs/bu	0-9	0-9	0-9	0-9
AgriMax 481	115.0	63.6	1.5	5.0	2.0	6.0
SX4435	113.8	60.2	0.0	5.5	1.0	7.0
AGS2055 CHECK	111.1	61.3	0.5	6.0	1.0	7.0
LA14066LDH-52	109.2	61.0	0.0	5.0	1.0	7.0
SX4820	107.8	60.8	0.0	4.0		6.0
Armor ARW1714	106.4	63.2	2.5	4.5	1.0	5.5
SX 2209	103.1	62.6	0.0	5.0		7.0
LA12275DH-102	99.9	61.6	1.5	5.0	1.0	6.0
LA14066LDH-102	97.9	61.9	0.0	5.0	1.0	6.0
SX4786	94.7	60.8	0.0	5.0	1.0	6.0
LA754 CHECK	94.5	61.5	0.0	5.0	1.0	7.0
LA14066LDH-82	94.3	62.6	2.5	4.0	1.0	5.5
LA12257SB-69-4	87.3	59.8	0.5	4.5	2.0	6.5
LA14066LDH-61	75.0	52.7	0.5	4.0	1.0	6.0
AGS3000 CHECK	73.9	55.7	2.0	4.0	2.0	6.0
MEAN	98.9	60.6	0.8	4.8	1.2	6.3
CV(%)	5	2				
LSD(0.10)	10.8	2.6				

Data from Macon Ridge Research Station at Winnsboro, LA. Steve Harrison, Trey Price, Myra Purvis, Kelly Arceneaux.

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

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Rel Mat is relative maturity where 0 = extremely early; 3 = early; 5 = average heading date; 7 = late; 9 = did not head. Average of 2 ratings in April.

Leaf Blotch is severity of leaf infection by a combinaiton of bacterial streak (Xanthomonas), Septoria, and tan spot on a scale of 0 = none to 9 = 100% leaf tissue damaged. Late season rating.

Phenotype is overall visual appeal on a 0 = very ugly to 9 = very attractive plot. It takes into account tillering, head appearance, canopy density, leaf color and health, etc. Average of 4 ratings taken after heading.

Ag Center	Grain	Test	Head	Plant	Leaf	Frz	Lod	Crown	BYDV	Pheno
esearch · Extension · Teaching	Yield	Wt	Day	Ht	iness	Dam	Score	Rust #	#	type
Brand / variety	bu/A	lbs/bu	of yr	in	0-9	0-9	0-9	%	0-9	0-9
LA11074SBSBSBSB-109	125.8	32.8	89	43	5.0	4.0	1.2	0	5	5.3
LA09015SBS-U1	125.3	33.7	87	48	4.7	3.2	0.6	0	1	5.1
LA12068SBSB-58-1	123.7	34.2	95	48	5.0	3.6	0.8	1	3	5.3
LA12006SBSBSB-46	123.6	34.2	99	46	4.0	1.8	0.6	20	4	4.8
HORIZON 306	121.7	35.5	95	49	6.7	2.0	0.8	17	2	5.6
HORIZON 270	120.4	33.8	90	48	4.3	2.0	0.6	23	3	5.0
FL0914-U2	117.8	32.7	87	48	5.3	3.4	0.6	0	2	5.0
HORIZON 201	115.6	32.9	89	54	7.0	2.4	0.8	30	1	5.8
LA09044SBS-U1	114.4	34.9	86	48	4.7	2.6	0.8	0	2	4.8
LA12040SBSBSB-64	114.3	32.5	82	44	3.7	2.8	0.8	0	1	5.5
FL0720	114.2	33.9	92	52	6.0	2.8	1.2	1	2	5.6
LA10044SSBS-1	113.9	34.6	83	43	5.7	2.2	1.2	0	2	5.5
LA09103SBS-U5	113.1	34.0	93	51	6.3	4.0	1.2	0	1	5.4
LA09030SBS-U3	111.1	33.0	81	47	4.3	2.8	0.8	0	1	5.0
LA12066SBSB-90-1-1	110.3	34.6	88	48	4.0	2.4	0.6	0	3	5.0
TX09CS049	110.0	34.7	98	47	5.7	2.0	0.6	4	3	4.8
LA12068SBSB-192-1	109.9	33.3	97	39	4.7	4.0	0.6	0	4	4.3
TX14OCS5098	109.8	34.0	97	52	5.7	2.2	2.0	1	2	5.6
LA10067SSBSBSB-61-1	107.8	32.0	84	45	4.0	3.2	1.6	0	3	5.1
LA10043SSBSBSB-110-1	105.5	32.0	91	55	5.0	4.6	1.0	0	3	4.9
LA07007SBSBSB-18	105.4	33.8	80	38	3.3	3.6	0.6	0	2	5.1
TX09CS031	103.7	34.6	93	46	5.3	1.4	0.6	11	2	5.8
LA09015SBS-U4	102.4	34.4	88	51	4.3	4.8	0.6	0	2	4.5
LA09045SBS-U4	98.4	33.8	83	48	3.7	2.6	0.8	1	1	4.6
TX14OCS5154	98.4	33.0	87	48	4.3	1.4	0.6	8	4	4.9
LA10001SSBS-20-1	97.6	34.3	98	51	6.3	1.4	0.6	15	2	5.8
LA10067SSBSBSB-64-1	97.4	32.0	84	47	5.7	2.8	0.6	0	4	5.1
LA10061SSBSBSB-23-1	96.8	34.0	94	50	5.0	3.8	0.8	0	3	5.0
FL12039BS-40-1	94.9	30.5	98	44	4.3	2.8	0.6	0	2	4.6
LA12037SBSBSB-33	88.0	34.0	80	43	3.3	2.8	0.8	0	1	4.3
BOB	84.1	36.3	90	51	5.3	1.8	3.8	30	2	5.1
FL12023GSBSBS-8-1	78.0	32.7	81	49	3.0	1.6	0.6	0	1	5.6
BROOKS	74.1	28.7	90	54	5.0	1.4	2.8	70	3	4.5
MEAN	106.7	33.5	89	48	4.8	2.7	1.0	7	2.1	5.1
CV(%)	12	4	3	6	14	20	69			15
LSD(0.10)	16.0	2.0	3	3	1.1	1.5	1.0			NS

Data from 2018 Alexandria, Baton Rouge and Winnsboro.

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

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

Frz Dam is Freeze Damage where 0 = none; 5 = significant leaf burn; 9 = dead plants.

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Crown Rust is percent tissue of upper three leaves affected by rust.

BYDV is Barley Yellowdwarf Virus. 0 = none; 9 = severe.

Phenotype is general appearance rating (vigor, color, tillering, etc). Average of overall rating in winter and spring. 0 = poor, 9 = excellent.

Baton Rouge data only

 $\ensuremath{\mathbf{NS}}$ indicates that variety mean differences were not statistically significant.

AgCenter esearch · Extension · Teaching	Grain Yield	Test Wt	Head Day	Plant Ht	Leaf iness	Lod Score	Crown Rust	Stem Rust #	Pheno type
Brand / variety	bu/A	lbs/bu	of yr	in	0-9	0-9	%	0-9	0-9
TWO YEAR DATA									
LA12068SBSB-58-1	118.2	32.8	95	48	4.6	0.8	8	0.3	5.3
LA09015SBS-U1	116.2	31.7	87	48	4.8	0.6	0	0.3	4.9
FL0720	106.9	31.2	92	52	5.2	1.2	4	0.3	5.6
FL0914-U2	105.7	30.3	87	48	5.0	0.6	1	1.5	4.9
LA09103SBS-U5	105.3	32.7	93	51	5.6	1.2	6	1.3	5.2
HORIZON 270	105.2	31.0	90	48	4.4	0.6	34	1.0	4.8
LA09044SBS-U1	103.2	32.8	86	48	4.8	0.8	0	2.0	4.5
HORIZON 306	102.7	31.2	95	49	6.2	0.8	32	1.0	5.5
TX09CS049	102.1	32.3	98	47	5.6	0.6	12	0.5	4.7
HORIZON 201	101.3	30.3	89	54	6.6	0.8	38	1.0	5.4
LA09015SBS-U4	99.7	33.3	88	51	4.8	0.6	0	0.3	4.6
LA09030SBS-U3	98.4	30.8	81	47	4.4	0.8	8	2.3	4.9
LA07007SBSBSB-18	97.8	31.9	80	38	3.6	0.6	0	0.8	5.1
LA09045SBS-U4	93.1	32.4	83	48	4.0	0.8	4	0.5	4.7
BROOKS	65.2	26.0	90	54	4.8	2.8	74	0.5	4.0
MEAN	101.2	31.4	89	48	5.0	0.9	15	0.9	4.9
CV(%)	13	4	4	6	17	67	77	102	15
LSD(0.10)	15.6	2.4	2	2	ns	ns	12		0.8
THREE YEAR DATA									
HORIZON 270	99.6	30.1	89	48	4.6	2.3	18	0.8	4.6
LA07007SBSBSB-18	96.9	31.7	82	38	4.1	2.2	0	0.9	4.7
FL0720	94.7	30.3	93	52	5.4	2.8	2	0.4	4.9
HORIZON 306	90.3	29.5	95	49	5.9	3.1	21	0.8	5.0
TX09CS049	90.0	29.9	99	47	5.5	2.6	6	0.5	4.8
BROOKS	50.6	25.1	91	54	4.9	5.6	79	0.3	5.1
MEAN	87.0	29.5	91	48	5.1	3.1	21	1	4.8
CV(%)	14	3	3	6	11	28	42	100	12
LSD(0.10)	14.2	2.6	3	2	0.7	1.3	14	NS	NS

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

data from 2016 and 2017 Winnsboro only. **Leafiness** where 0 = poor leafiness/forage; 9 = excellent forage potential/very leafy. **Lod Score** is lodging score on a scale of 0 = none to 9 = 100% lodged.

Crown Rust is percent tissue of upper three leaves affected by rust.

Stem Rust where 0 = none, 9 = very severe, relative scale.

Phenotype is general appearance (vigor, color, tillering, etc). Average of overall rating in winter and spring. 0 =poor, 9 = excellent.

NS indicates that variety mean differences were not statistically significant.

LSU	Table 26. Oa	at variety tria	nl at Alexand	lria, LA for 2	2018.		
AgCenter	Grain	Test	Frz	Head	Plant	Lod	Bird
Research · Extension · Teaching	Yield	Wt	Dam	Dav	Ht	Score	Damage
Brand / variety	bu/A	lbs/bu	0-9	of yr	in	0-9	%
,				·			
LA12068SBSB-58-1	117.1	25.7	3.7	95	49	1.3	20
HORIZON 270	116.1	28.3	1.7	92	48	1.0	7
HORIZON 306	116.0	26.9	2.0	96	49	1.3	22
HORIZON 201	114.9	27.4	2.0	90	53	1.3	28
LA09103SBS-U5	112.6	26.8	2.7	93	50	2.0	13
LA11074SBSBSBSB-109	111.8	25.9	3.0	91	41	2.0	10
LA12006SBSBSB-46	109.6	30.8	1.7	102	47	1.0	0
LA07007SBSBSB-18	108.4	26.9	2.7	80	36	1.0	3
LA10067SSBSBSB-61-1	102.4	23.1	3.0	85	43	2.7	8
LA09044SBS-U1	101.7	26.4	2.7	88	47	1.3	7
LA10044SSBS-1	101.3	24.8	2.0	84	42	2.0	37
TX09CS049	101.1	27.7	2.0	100	46	1.0	2
LA10001SSBS-20-1	100.9	29.2	1.3	98	54	1.0	0
LA09030SBS-U3	100.7	24.9	2.7	82	45	1.3	0
TX14OCS5098	100.0	27.6	2.0	99	50	3.3	3
FL0720	97.4	24.0	2.3	95	51	2.0	12
FL0914-U2	97.1	24.7	2.3	88	45	1.0	13
LA09015SBS-U1	95.4	25.2	2.7	88	47	1.0	3
LA10043SSBSBSB-110-1	92.5	21.2	3.3	91	57	1.7	8
LA12068SBSB-192-1	89.7	27.4	3.0	98	38	1.0	27
TX09CS031	89.3	26.3	1.0	95	44	1.0	0
BOB	89.1	27.5	1.7	92	51	5.0	8
TX14OCS5154	87.9	23.0	1.3	88	48	1.0	12
FL12039BS-40-1	87.5	23.3	1.3	98	43	1.0	0
LA09045SBS-U4	85.6	25.7	2.3	84	46	1.3	12
LA12040SBSBSB-64	83.9	20.1	2.7	81	41	1.3	12
LA10067SSBSBSB-64-1	83.0	21.8	2.3	83	46	1.0	8
LA09015SBS-U4	81.0	24.0	3.7	89	49	1.0	22
LA12066SBSB-90-1-1	77.7	26.3	2.3	90	44	1.0	2
LA10061SSBSBSB-23-1	71.0	22.6	2.3	95	49	1.3	3
LA12037SBSBSB-33	66.0	21.0	2.3	81	39	1.3	12
BROOKS	63.1	21.1	1.3	92	53	4.7	5
FL12023GSBSBS-8-1	56.5	20.5	2.0	82	47	1.0	22
MEAN	94.3	25.1	2.3	90	46	1.6	10
CV(%)	14	10	25	4	7	51	125
LSD(0.10)	18.7	3.5	0.8	5	5	1.1	18

Data from LSU AgCenter Dean Lee Research Station, Alexandria, LA. Boyd Padgett, Daniel Stephenson, Caitlin Woodard, and Darrell Franks.

Cultural and Site Information: 3 reps, 5' x 15' plots. A cool and relatively dry April resulted in excellent yields and test weights. No disease pressure and minimal lodging.

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

Frz Dam is Freeze Damage where 0 = none; 5 = siginificant leaf burn; 9 = dead plants.

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Bird Damage is percent of affected spikelets.

Ag Center	Grain	Test	Head	Plant	Leaf	Lod	Crown	BYDV	Pheno
esearch · Extension · Teaching	Yield	Wt	Day	Ht	iness	Score	Rust	#	type
Brand / variety	bu/A	lbs/bu	of yr	in	0-9	0-9	%	0-9	0-9
1 400015GDG 111	1040	21.5	0.5	40	4.0	0.0	0	1.0	
LA09015SBS-U1	134.3 132.7	31.7 32.2	85 82	49	4.0	0.0	0	1.0	5.5
LA12040SBSBSB-64				47	3.5	0.0	0	1.0	5.8
LA11074SBSBSBSB-109 LA09044SBS-U1	131.9 127.1	30.4 33.4	86 85	45 49	4.5 4.0	0.0	0	4.5 1.5	4.8 4.8
	127.1					0.0			
LA12066SBSB-90-1-1 HORIZON 306	125.9	33.5 34.4	93	53 49	4.0 6.5	0.0	0 17	2.5 2.0	5.3 5.8
LA12068SBSB-58-1	125.9	34.4 33.0	9 3 95	49 47	5.0	0.0	17 1	2.5	3.8 4.8
FL0914-U2	123.3	32.0	93 85	51	5.5	0.0	0	2.5 1.5	4.8 5.5
FL0720	124.3 123.8	32.0 32.5	88	53	6.0	0.0	1	1.5 1.5	5.8
TX14OCS5098	123.8	32.5 33.7	94	55 55	6.0	0.0	1	1.5	5.8
HORIZON 270	117.2	32.3	87	48	4.5	0.0	23	2.5	4.5
LA10044SSBS-1	117.2	32.9	82	46 44	5.0	0.0	0	1.5	6.0
LA10043SSBSBSB-110-1	117.0	31.2	92	53	5.0	0.0	0	2.5	5.0
LA09103SBS-U5	117.0	32.8	92	53	6.5	0.0	0	1.0	5.8
LA09015SBS-U4	115.4	33.5	86	52	4.5	0.0	0	2.0	4.8
HORIZON 201	111.3	31.6	87	56	7.0	0.0	30	1.0	6.0
TX09CS049	111.2	34.0	96	47	6.0	0.0	4	3.0	4.8
LA07007SBSBSB-18	109.3	31.9	80	41	3.5	0.0	0	1.5	5.5
LA12037SBSBSB-33	108.9	33.8	77	47	3.0	0.0	0	1.0	4.5
TX09CS031	107.7	32.9	91	48	5.0	0.0	11	1.5	5.5
LA12068SBSB-192-1	106.3	31.4	95	40	5.0	0.0	0	4.0	4.3
LA12006SBSBSB-46	106.1	32.0	95	46	4.0	0.0	20	3.5	4.3
LA09030SBS-U3	104.6	31.8	79	48	3.5	0.0	0	1.0	5.0
LA10061SSBSBSB-23-1	103.9	33.7	93	52	5.0	0.0	0	2.5	5.3
FL12023GSBSBS-8-1	102.8	31.6	80	52	3.0	0.0	0	1.0	5.5
LA09045SBS-U4	102.5	31.9	81	49	3.5	0.0	1	1.0	5.3
LA10067SSBSBSB-61-1	102.3	29.6	84	47	4.0	0.0	0	2.5	5.3
LA10067SSBSBSB-64-1	100.1	30.0	85	48	5.5	0.0	0	3.5	5.5
FL12039BS-40-1	92.8	27.5	97	44	4.5	0.0	0	2.0	4.3
TX14OCS5154	89.0	31.1	86	49	4.0	0.0	8	3.5	4.3
LA10001SSBS-20-1	85.0	33.0	99	49	6.0	0.0	15	2.0	5.8
BOB	82.9	33.5	88	51	5.0	2.0	30	2.0	5.8
BROOKS	55.6	24.7	87	55	4.5	0.0	70	2.5	4.0
MEAN	109.7	32.0	88	49	4.7	0.1	7	2.1	5.2
CV(%)	12	4	2	5	14	406	159	44	17
LSD(0.10)	18.8	1.7	2	4	1.1	0.4	19	1.6	1.5

Data from LSU AgCenter Central Research Station, Ben Hur Farm, Baton Rouge, LA. Steve Harrison, Kelly Arceneaux, Katie McCarthy Fontenot, and Allysson Lunos.

Cultural and Site Information: 3 reps, 5' x 15' plots. A cool and relatively dry April resulted in excellent yields and test weights. No disease pressure and minimal lodging. 50-0-0 topdress in early February + 25-0-0 in early March. Amber and Harmony Extra for weed control. Planted 11-29-17. Harvested 5-12-18.

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

 $\textbf{Leafiness} \ where \ 0 = poor \ leafiness/forage; \ 9 = excellent \ forage \ potential/very \ leafy.$

Lod Score is lodging score on a scale of 0 = none to 9 = 100% lodged.

Crown Rust is percent tissue of upper three leaves affected by rust.

BYDV is Barley Yellowdwarf Virus. 0 = none; 9 = severe.

Phenotype is general appearance rating (vigor, color, tillering, etc). Average of overall rating in winter and spring. 0 = poor, 9 = excellent.

o Center	Grain	Test	Leaf	Frz	Rel	Pheno
esearch · Extension · Teaching	Yield	Wt	iness	Dam	Mat	type
Brand / variety	bu/A	lbs/bu	0-9	0-9	0-9	0-9
·						
LA12006SBSBSB-46	155.0	36.3	4.0	2.0	6.0	5.3
LA09015SBS-U1	139.3	35.7	6.0	4.0	5.0	4.8
LA11074SBSBSBSB-109	133.8	35.2	6.0	5.5	6.0	5.8
LA12068SBSB-192-1	133.7	35.1	4.0	5.5	7.0	4.3
FL0914-U2	132.1	33.4	5.0	5.0	5.0	4.5
LA12068SBSB-58-1	128.4	35.3	5.0	3.5	6.0	5.8
HORIZON 270	128.0	35.4	4.0	2.5	4.0	5.5
LA09030SBS-U3	128.0	34.2	6.0	3.0	5.0	5.0
LA12066SBSB-90-1-1	126.6	35.7	4.0	2.5	4.0	4.8
LA12040SBSBSB-64	126.3	32.8	4.0	3.0	4.0	5.3
HORIZON 306	124.5	36.5	7.0	2.0	6.0	5.5
LA10044SSBS-1	123.5	36.4	7.0	2.5	4.0	5.0
FL0720	121.4	35.2	6.0	3.5	6.0	5.5
HORIZON 201	119.1	34.2	7.0	3.0	4.0	5.5
LA10067SSBSBSB-61-1	118.9	34.4	4.0	3.5	5.0	5.0
LA09044SBS-U1	118.5	36.4	6.0	2.5	4.0	4.8
TX09CS049	117.8	35.4	5.0	2.0	7.0	4.8
LA10061SSBSBSB-23-1	115.6	34.2	5.0	6.0	7.0	4.8
TX09CS031	114.1	36.3	6.0	2.0	6.0	6.0
TX14OCS5154	111.3	35.0	5.0	1.5	4.0	5.5
LA09015SBS-U4	110.3	35.3	4.0	6.5	6.0	4.3
LA09103SBS-U5	110.2	35.2	6.0	6.0	6.0	5.0
LA10067SSBSBSB-64-1	109.0	34.0	6.0	3.5	6.0	4.8
LA09045SBS-U4	107.2	35.6	4.0	3.0	3.0	4.0
LA10043SSBSBSB-110-1	107.1	32.7	5.0	6.5	7.0	4.8
TX14OCS5098	107.0	34.3	5.0	2.5	7.0	5.5
LA10001SSBS-20-1	106.9	35.7	7.0	1.5	7.0	5.8
FL12039BS-40-1	104.4	33.5	4.0	5.0	7.0	5.0
BROOKS	103.6	32.7	6.0	1.5	5.0	5.0
LA07007SBSBSB-18	98.4	35.7	3.0	5.0	3.0	4.8
LA12037SBSBSB-33	89.2	34.2	4.0	3.5	3.0	4.0
BOB	80.1	39.0	6.0	2.0	6.0	4.5
FL12023GSBSBS-8-1	74.7	33.9	3.0	1.0	3.0	5.8
MEAN	115.9	35.0	5.1	3.4	5.3	5.0
CV(%)	11	3		14		13
LSD(0.10)	18.0	1.6		0.8		1.1

Data from Macon Ridge Research Station at Winnsboro, LA. Trey Price, Myra Purvis, John Stapp, Paul Washam, Steve Harrison, Kelly Arceneaux, Katie McCarthy Fontenot, and Allysson Lunos.

Cultural and Site Information: 3 reps, 5' x 15' plots. A cool and relatively dry April resulted in excellent yields and test weights. No disease pressure and minimal lodging. Planted mid November. 75-0-0+S topdress in mid February.

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

 $\textbf{Leafiness} \ where \ 0 = poor \ leafiness/forage; \ 9 = excellent \ forage \ potential/very \ leafy.$

Frz Dam is Freeze Damage where 0 = none; 5 = siginificant leaf burn; 9 = dead plants.

Rel Mat is relative maturity where 0 = very early spring-like; 9 = very late heading.

Phenotype is general appearance rating (vigor, color, tillering, etc). Average of overall rating in winter and spring. 0 = poor, 9 = excellent.

Appendix A. Entries in the 2018 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Brand	Line/Variety	Originating Agency
<u>WHEAT</u>		
Armor	ARW1714	. Armor Seed 183 Pennsylvania Ave. Waldenburg, AR 72475
AGS	AGS 2024, 2038, 2040, 2055, 3000	AGSouth Genetics P.O. Box 72246 Albany, GA 31708
AgriMAXX	AgriMAXX 415, 473, 480, 481	AgriMAXX Wheat Company 7167 Highbanks Road Mascoutah, IL 62258
AR	All numbered AR lines	Arkansas Agric. Experiment Stn. 2301 South University Avenue Little Rock, AR 72204
Delta Grow	Delta Grow 1000, 3500	Delta Grow Seed 220 N W 2nd England, AR 72046
Dyna-Gro	Dyna-Gro 9701, 9811, Savoy, TV8861	. 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
LCS	L11713	Limagrain Cereal Seeds 7099 Parkbrook Lane Cordova, TN 38018
NC State	All numbered NC lines.	North Carolina Agric. Expt. Stn. Crop Science Department North Carolina State University Raleigh, NC 27695Dupont

Appendix A. Entries in the 2018 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Brand	Line/Variety	Originating Agency
<u>WHEAT</u>	•	
Pioneer	26R41, 26R45, 26R59, 26R94	Dupont Pioneer 59 Greif Parkway, Suite 200 Delaware, OH 43015
Progeny	Progeny AG #BOSS, #BULLET, #TURBO, PGX16-1, 16-4, 16-7	.Progeny Ag Products 1529 Hwy. 193 South Wynne, AR 72396
Stratton	GO Wheat LA754, 2032	.Stratton Seed Co. 1530 Hwy 79 South Stuttgart, AR 72160
Syngenta	Collins, Harrison, Miskin, Viper, SX2209, 4435, 4786, 4820	Syngenta 7099 Parkbrook Ln Cordova, TN 38018
TX	All numbered TX lines	TAMU - Commerce Dept. of Ag Science Commerce, TX 75429
USG	USG 3118, 3120, 3536	UniSouth Genetics, Inc. 3205-C HWY 46 S Dickson, TN 37055
VA	Hilliard, 12W-68	Virginia PI & State University EVAREC 2229 Menokin Road Warsaw, VA 22572

Appendix A. Entries in the 2018 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Brand	Line/Variety	Originating Agency
<u>OATS</u>	•	
Angelina	FL0720-R6	
		P.O. Box 158
		Monterey, LA 71354
FL	All Numbered FL lines	North Florida Res. & Education Center
		155 Research Road
		Quincy, FL 32351
		Quincy, 1 2 0 200 1
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
Stratton	Horizon 201	Stratton Seed Co.
Stratton	110112011 201	1530 Hwy 79 South
		Stuttgart, AR 72160
		Stuttgart, AK 72100
TAMO/TX	All numbered TAMO/TX lines	Texas AgriLife Research
		TAMU - Commerce
		Dept. of Ag Science
		Commerce, TX 75429