2014 SMALL GRAIN PERFORMANCE TRIALS

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This support is greatly appreciated.

LOUISIANA STATE UNIVERSITY AGRICULTURAL CENTER
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Performance of Small Grain Varieties in Louisiana, 2013-14

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INTRODUCTION

Small grain variety trials are conducted annually by scientists of the Louisiana Agricultural Experiment Station (LAES) to evaluate grain yield, agronomic performance, and disease reaction of varieties and advanced lines. The trials are conducted at seven LAES research stations representative of the major soil and climate regions of the state. Entries are included in the trials based upon previous performance or at the request of the originating agency. Inclusion of an entry in the trials does not constitute an endorsement by the LAES. The 2014 statewide wheat performance trials included 73 varieties (bold font) and experimental lines (normal font).

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

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

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2 Professor, and Research Associate, respectively, Northeast Research Station, St. Joseph.
3 Research Associate, Professor, Associate Professor, and Research Associates, respectively. Rice Research Station, Crowley.
4 Associate Professor, Research Farm Assistant 1, and Research Associate, respectively. Red River Research Station, Bossier City.
5 Extension Associate, Assistant Professor, Regional Director, and Associate Professor, respectively, Dean Lee Research Station, Alexandria.
6 Assistant Professor, Assistant Professor and Research Associates, respectively. Macon Ridge Research Station, Winnsboro.
7 Professor and Research Associate. Iberia Research Station, Jeanerette.

Characters Evaluated and Statistics Reported:

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

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

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

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

Results and Discussion

Overview of the 2013-2014 growing season

The 2013-2014 wheat production season can be considered both a challenging and rewarding season. Total acreage was down from the previous year with approximately 175,000 total acres planted across the state (compared to nearly 225,000 from the previous year). While prices at the beginning of the year were sub-optimal, optimal planting conditions early in the season combined with timely soaking but non-drenching rainfall early within the planting window allowed growers to plant higher acres than originally intended. However, these conditions did not persist. Later planted wheat suffered from increased precipitation and many areas exhibited stand decline forcing some growers to replant. This replanted crop as well as later planting of the wheat crop lasts until mid- to late-December in many areas. The delayed planting of some wheat, combined with a severe winter, resulted in reduced yields for the late planted wheat.

Winter conditions across the state of Louisiana were the coldest on record, with many experiencing frost and freezing conditions until late into the spring (March and April). This resulted in a very slow crop coming out of the vernalization period. During certain periods of the early spring, the wheat crop was as much as 5-6 weeks behind in growth and development. However, conditions in late-April and early-May allowed the wheat crop's development to nearly reach historic trends and many parts of the state saw the crop only 7-10 days behind by harvest. While the winter was more severe than previous years, no late-frost conditions during reproductive development occurred to limit yields, as was the case in the 2012-2013 season. However, increased precipitation during harvest severely hindered the wheat crop. Harvest throughout the state varied from nearly complete to just beginning when a 14-day off-and-on precipitation event occurred. While these storms had little effect on physically damaging the wheat through lodging, the swelling and shrinking of the wheat seed within the head created many areas, particularly in north Louisiana where harvest had just started, with low test weight wheat. Often we are shooting for a test weight for wheat around 60 lbs/bu; however, following these rain events, many fields were testing in the mid to low 50s for test weight. While yields were still high for these fields, dockage at the mill for low test weights decreased total profits.

This year resulted in significantly less pest pressure in some areas of the state, while other areas received increased pressure. Southern Louisiana, which typically possesses a high potential disease incidence, had lower than normal rust incidence. However, northern Louisiana exhibited typical to increased rust incidence across the region. Generally, insect pressure was higher than average across the state.

Wheat yields for the state were exceptional considering the circumstances that surrounded the season. Many areas of the state saw greater than 90 bu/ac field averages. As mentioned previously, wheat quality was high for areas that were able to harvest unhindered; however, quality was typically lower than average for those delayed by rain. While the last couple of years have been challenging for wheat producers around the state, our growers continue to produce high quality and high yielding wheat crops.

Performance of Wheat Varieties Across South Louisiana

South Region Means

The wheat trials had excellent yields and relatively few disease issues across south Louisiana in 2014. The breeding line ARX1332 (89.7 bu/acre) had the highest yield across South Louisiana for 2014 (Table 1). The released varieties USG 3120 and Delta Grow 3200 ranked 2nd and 3rd with yields of 87.9 bu/acre and 86.4 bu/acre respectively compared to the mean of 77.2 bu/acre for 50 entries. The experimental lines GA04417-11E21 and LA05130D-P5 rounded out the top five, both with yields above 84.5 bu/acre. Test weights were generally good with a mean of 59.0 lbs/bu. The five highest-yielding entries also had above-average test weights. These entries had heading dates (day of year) ranging between 97.7 and 87.6 compared to the mean of 93.2. There was very little lodging across South Louisiana, with all entries rating less than 1 on a 0-9 scale. Leaf rust pressure was moderate in this area with a mean of 8.4%. Leaf rust developed very late in the growing season and had little impact on grain yield.

Terral LA754 had the highest mean yield (87.0 bu/acre) of 21 entries across South Louisiana for two years (Table 2). AGS 2038, Terral LA821, USG 3120, and Pioneer XW13X also ranked in the top five, all with yields above 84.1 bu/acre. The yield mean was 79.9 bu/acre. These entries had test weights ranging from 58.6 to 60 lbs/bu compared to the mean of 58.4 lbs/bu, had lodging scores of 0 (0-9 scale) and headed earlier than the mean of 90.3 days.

Baton Rouge

The yields of the top three entries at Baton Rouge in 2014, USG 3120 (105.1 bu/acre), GA-04434-11E44 (101.0 bu/acre), and Terral LA821 (100.5 bu/acre) were exceptional, as was the test mean of 86.5 bu/acre (Table 3). The released variety AGS 2027 (96.4 bu/acre) and the breeding line Pioneer XW13W (94.5 bu/acre) also ranked in the top five for grain yield. Test weights of these entries ranged from 58.4 lbs/bu to 60.8 lbs/bu compared to the mean 58.6 lbs/bu.

The average heading date was 93 (April 3). The three latest-heading entries were also the lowest-yielding entries in the trial. Leaf rust developed very late in the grain fill period and had minimal impact on grain yield. Leaf rust ratings range from 0% to 85% with a mean of 8%.

Entries in the trial were also screened for Fusarium Headblight reaction (FHB) in misted trials inoculated with scabby corn in Baton Rouge. FHB was rated on a 0-9 scale for disease symptoms on the heads (infected florets) prior to harvest. Row segments were hand harvested and threshed with low clean-out wind to avoid blowing out scabby kernels. The percent Fusarium damaged kernels (FDK) was then counted samples were submitted to a USDA lab to determine toxin (DON) content. Significant differences occurred among entries for FHB and FDK, with most varieties showing a susceptible to moderately susceptible reaction type. LA6146E-P4 and Jamestown have consistently shown resistance to FHB in other trials. FHB occurs sporadically across Louisiana and was more common in grower fields in 2014 than in most years.

Crowley
Yields were excellent at Crowley, with the top four entries yielding over 95 bu/acre and a test mean of 82.5 bu/acre (Table 4). Test weights unusually high with a range of 61.3 lbs/bu to 60.2 lbs/bu and a mean of 60.8 bu/acre. The cool winter resulted in adequate vernalization of late-heading entries and allowed them to properly fill kernel out before summer heat arrived.

Heading dates ranged between 82.8 and 103 days. The ten highest-yielding entries all had heading dates earlier than the test mean, whereas the ten lowest-yielding entries headed later than the test average. Lodging and disease pressure were minimal.

Jeanerette
The trial at Jeanerette had an average yield of 62.6 bu/acre and a mean test weight of 57.7 lbs/bu (Table 5). Disease pressure was minimal at this location. ARX1332, Delta Grow 3200, Terral LA754, ARX1327, and LA05130D-P5 had the highest yields of 50 entries at this location. The average heading date at Jeanerette was 96.7 (April 7) and 17 entries had heading dates greater than 100 days at Jeanerette compared to one, three, and five, at the other South Louisiana locations.

Performance of Wheat Varieties Across North Louisiana

North Region Means
Wheat in north Louisiana benefited from a prolonged grain fill period thanks to a cool April. Dyna-Gro 9171 (87.7 bu/acre) had the highest grain yield of 73 entries across north Louisiana in 2014 (Table 6). Pioneer 26R41 (86.8 bu/acre), ARX1325 (85.8 bu/acre), Terral TV8861 (84.5 bu/acre) and USG 3201 (84.5 bu/acre) also yielded greater than 84 bu/acre and the average for 73 entries was 79.1 bu/acre. Test weights were a little low in north Louisiana due to weathering from a rainy week just prior to harvest, with an average of 56.5 lbs/bu. LA05130D-P5 had the highest test weight (59.9 lbs/bu), followed by the variety Pioneer 26R87 and LA05145D-118 with test weights >50 lbs/bu. Lodging was minimal with scores ranging from 0.7 to 4.2 (0-9 scale) and a mean of 1.0. Leaf rust developed late and pressure was low across North Louisiana with scores ranging from 0 to 34% and a mean of 3%. With the exception of the Louisiana experimental line LA06146E-P04, the top twenty yielding entries all headed later than the mean of 105 days.

Armor Vandal and Pioneer 26R41 had two-year mean yields greater than 87 bu/acre across north Louisiana for two years (Table 7), followed by USG 3201 and Dyna-Gro 9171. Pioneer 26R41 and USG 3201 had above average test weights. All three had stripe rust scores of 2% or less and leaf rust incidence ratings of 3% or less. All of the 20 highest-yielding varieties had heading dates later than the test mean, which is a reflection of the fact that the past two springs have been cool and late-heading varieties had yielded well as a result.

Pioneer 26R41 (83.3 bu/acre) had the highest yield of 31entries across the region for three years. Dyna-Gro 9171, USG 3201, Pioneer 26R53 and AGS 2056 also yielded more than 80

bu/acre (Table 8). Of the five, three had test weights greater than the average of 56.4 lbs/bu. All five headed at least four days later than the mean heading day, had stripe rust scores of 0 and leaf rust incidence scores of 4% or less. The 17 highest-yielding varieties had heading dates later than the test mean and the 13 of the 14 lowest-yielding varieties had heading dates earlier than the test mean.

Alexandria

LA06146E-PO4 had the highest yield (91.3 bu/acre) in Alexandria followed by Syngenta Harrison, Terral LA754, Dyna-Gro 9171, and ARX1332 with yields >89 bu/acre. The average yield was 81.6 bu/acre (Table 9). Heavy rains after maturity at Alexandria resulted in very low test weights and this data was discarded. Although leaf rust pressure was high, it developed very late and had little impact on yield. Leaf rust incidence ratings ranged from 0 to 97% on varieties not too mature to rate with a mean of 33%. Heading date ranged from day 90 to day 101 with a mean of 97 (April 7). The top five yielding entries had heading dates ranging between day 91 and day 101, fairly evenly distributed around the mean.

Bossier City

USG 3201 had the highest yield (84.8 bu/acre) followed by ARX1327, Delta Grow 720X , Terral TV8861, and ARX1313 with yields >83 bu/acre at Bossier City in 2014 (Table 10). The average yield was 73.0 bu/acre. Test weights ranged from 54.9 lbs/bu to 64.2 lbs/bu with a mean of 58.3 lbs/bu. Three Louisiana experimental lines, LA05130D-P5 (64.2 bu/acre), LA05145D-118 (62.0 bu/acre) and LA06146E-P4 (61.6 bu/acre) had the highest test weights. The five highest-yielding entries all had heading dates later than the mean of 109 days. There was very low disease pressure and no lodging at Bossier City.

USG 3201 also had the highest yield (97.6 bu/acre) over two years at Bossier City, followed by Armor Vandal, Dyna-Gro 9171, Terral TV 8848, Terral TV 8861, and Pioneer 26R53 also with yields >93 bu/acre. The average test weight was 58.3 lbs/bu.

St. Joseph

Terral TV8861 had the highest yield (90.6 bu/acre) at St. Joseph (Table 11). AGS 2057, Pioneer 26R41, Armor Havoc and Dyna-Gro 9171 also yielded >85 bu/acre, well above the mean of 76.0 bu/acre. Heavy rainfall prior to harvest resulted in low test weights at this location in 2014. Test weights ranged from 57.5 lbs/bu to 49.9 lbs/bu with a mean of 54.5 bu/acre. Disease pressure was light with leaf rust appearing during grain fill, too late to impact yield. There was a twelve day range between the earliest and latest heading entries.

Dyna-Gro 9171, Pioneer 26R41, and LA06146E-P04 had the highest two-year mean yields at this location. Bacterial streak (*Xanthomonas*) was the only disease of significance and probably did not reach high enough levels to impact yields.

Winnsboro

Dyna-Gro 9171 had the highest yield (96.4 bu/acre) at Winnsboro in 2014 (Table 12). AGS 2056, GA-041052-11E51, Delta Grow 720X and USG 3404 and ARX1325 also yielded more than 91 bu/acre. The average yield of 73 entries was 84.3 bu/acre. Like St. Joseph and

Alexandria, test weights were low at Winnsboro due to heavy rains prior to harvest, with a range of 51.7 to 58.6 lbs/bu and a mean of 55.8 bu/acre. Disease pressure was very low with leaf rust appearing in late grain fill and 43 of 73 entries receiving a 0% incidence rating for the disease. The five highest-yielding entries all had 15 % or less leaf rust incidence and headed within 4 days of the mean, 105.8 days.

Over two years, Armor Vandal had the highest yield (87.2 bu/acre) at this location compared to the mean of 79.3 bu/acre. Pioneer 26R53, Pioneer 26R41, and USG 3833 all had yields greater than 86.0 bu/acre. The 18 entries with the highest two-year means yields all headed one to five days later than the test mean.

Fusarium headblight reaction was evaluated in a misted, inoculated disease nursery at Winnsboro and also occurred naturally in the yield plots. FHB in the yield plots range from 0 to 3.5 (0-9 scale) with significant differences among varieties. In the misted nursery, the percentage of heads infected with FHB was evaluated, as was the percentage of infected florets on those heads to give FHB Index, as estimate of the number of florets that infected. A row segment was hand-harvested and threshed with no air clean out to prevent loss of infected kernels and the percentage of infected kernels (Fusarium Damaged Kernels – FDK) in each sample was visually estimated. FHB index ranged from 0% to 65% and there were significant differences among varieties. FDK ranged from 13% to 65% with a mean of 31%. Jamestown, which has shown resistance over many FHB trials, has a FHB of 11 and a FDK of 15%.

Performance of Wheat Varieties Across Louisiana

The average of 50 entries tested across seven locations for 2014 was 77.9 bu/acre (Table 13). The average test weight was 58.2 lbs/bu. Heading dates ranged from 92 to 107 and were generally not correlated with yield rank. This validates the division of Louisiana wheat trials into north and south regions since heading date was correlated with yield in both regions but not statewide.

The average yield of 24 entries tested statewide for two years is 78.3 bu/acre (Table 14). AGS 2038, LA06146E-P04, Pioneer 26R41, Terral LA754, and Pioneer XW13X had two-year mean yields higher than 81 bu/acre.

The average yield of 17 entries tested across Louisiana for three years is 76.4 bu/acre (Table 15). AGS 2038 and Terral LA754 had yields higher than 81 bu/acre and above average test weights. The average test weight was 57.6 lbs/bu. The average leaf rust rating was 3%, a reflection of the low disease severity in Louisiana for the past few years.

WHEAT METRIBUZIN TOLERANCE

Dr. Daniel Stephenson, Weed Scientist, Dean Lee Research and Extension Center
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Metribuzin is an important herbicide for use in wheat. It provides control of numerous grass and broadleaf species such as annual bluegrass, Italian ryegrass, buttercup species,

chickweed, henbit, and many others. Unfortunately, wheat varieties can differ in their tolerance to metribuzin.

Thirty-five wheat varieties included in the 2014 LSU AgCenter Wheat Variety Trials were screened for tolerance to metribuzin (Table 16). Wheat varieties were evaluated in a field research study at the LSU AgCenter Dean Lee Research and Extension Center in Alexandria, LA. Soils at this location were a Coushatta Silt Loam with a pH of 8.0 with 1.5% organic matter. All wheat varieties were seeded at 0.75-inches on 7.5-inch rows. The metribuzin field was adjacent to the statewide variety trial field and had similar management practices.

Metribuzin 75 DF was applied at a rate of 10 ounces/acre (0.47 lb of metribuzin active ingredient/acre). This rate is much greater than the normal use rate (2 to 3 ounces/acre) and was intended for evaluation of tolerance. Metribuzin 75 DF was applied when wheat had 2 to 3 leaves (mid Feekes growth stage 1). Visual ratings of metribuzin injury were recorded 14, 28, and 35 days after application. Wheat variety sensitivity to metribuzin data was rated on a scale of 0 to 10, where a 0 indicates no damage and a 10 indicates severe damage, Varieties tolerance was classified as excellent (0% injury), good (1-10% injury), fair (>10 to 40% injury), poor (50% or greater injury) recorded 14 to 35 days after metribuzin application. Variety sensitivity was based upon discoloration of foliage, vegetative stunting, and stand reduction.

Yield comparisons are included in the table, along with yield differences between the variety mean yield in the standard variety trial and the metribuzin trial. The standard variety trial and the metribuzin trial had approximately equal yields. The difference between metribuzin and variety trial mean yields ranged from +17.2 to -27.6 bu/acre and does not appear to be related to metribuzin tolerance. Both trials had reasonable CVs and significant yield differences among varieties. The lack of relationship between metribuzin injury and yield loss is either a reflection of recovery and regrowth or normal variation in yields as indicated by the LSD values that would be expected when comparing data across different trials.

These results may help determine the potential for injury on the examined wheat varieties following application of metribuzin. Producers should always follow herbicide labeling instructions and use caution when applying metribuzin to wheat for weed control.

Performance of Oat Varieties

Performance of Oat Varieties Across Louisiana

The 2014 oat performance trial contained six varieties and 18 breeding lines (Table 17). All of the breeding lines are from the university breeding programs in Florida, Louisiana, and Texas, as are the four highest-yielding varieties. Oat yields were a little low in 2014 due to lodging caused by heavy rains prior to harvest. Horizon 270 had the highest yield (141.7 bu/acre), followed by LA02065SBSBSBSB-88, Horizon 201, Horizon 306, and LA99016 with yields higher than 133 bu/acre. These entries had test weights oat or above

the test mean of 33.0 lbs/bu and headed out within four days of the mean. There was minimal disease pressure.

Horizon 201 (109.4 bu/acre) had the highest yield of nine entries across Louisiana for two years (Table 18), followed by LA99016 and Horizon 306 with yieldds above 103.0 bu/acre and crown rust incidences of 0%. All three headed within 4 days of the mean (102.2).

Baton Rouge

At Baton Rouge yields were a little variable due to the wet winter and waterlogged soils, although average yields were good (Table 19). Horizon 201 had the highest yield (170.5 bu/acre) 24 entries. FL0720-R6, LA99016, and LA02065SBSBSBSB all had yields above 155 bu/acre compared to the mean of 139.8 bu/acre. The four highest-yielding varieties also has test weight means equal to or greater than the mean of 32.5 lbs/bu. Disease pressure in Baton Rouge was low with a mean stem rust score of 1.1 (0-9 scale). Stem rust developed very late in grain fill and crown rust was too light to rate.

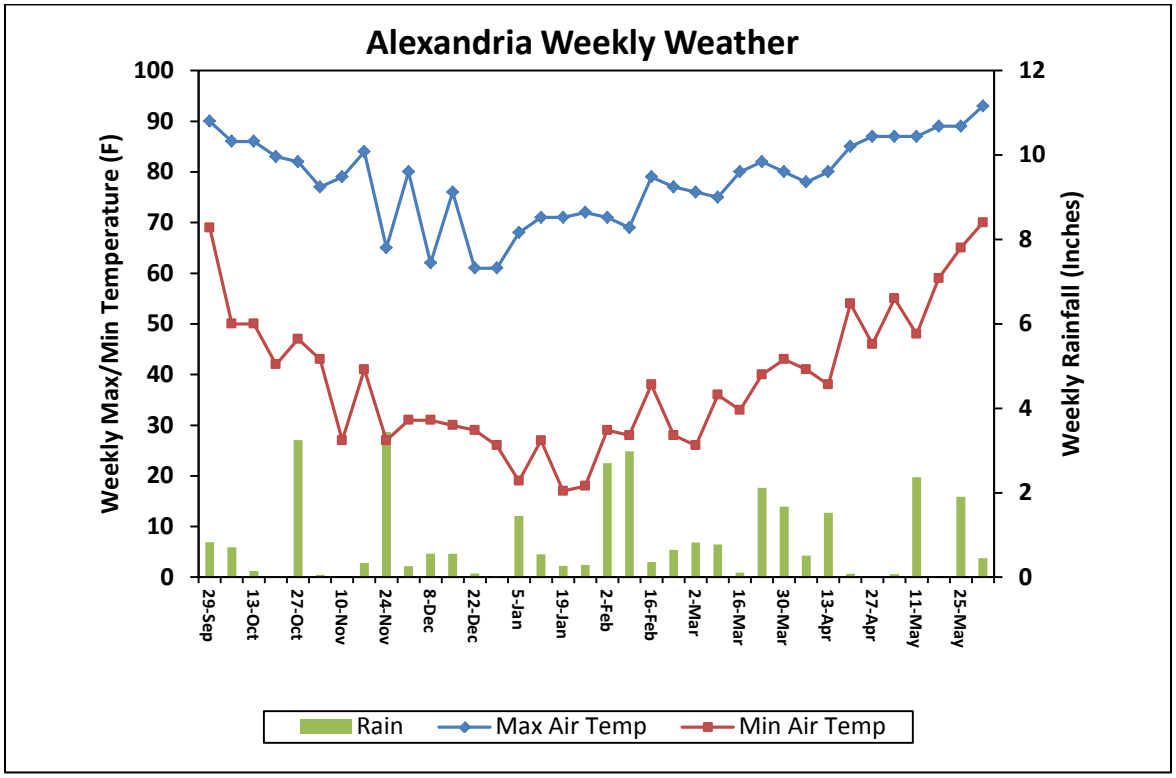
Bossier City

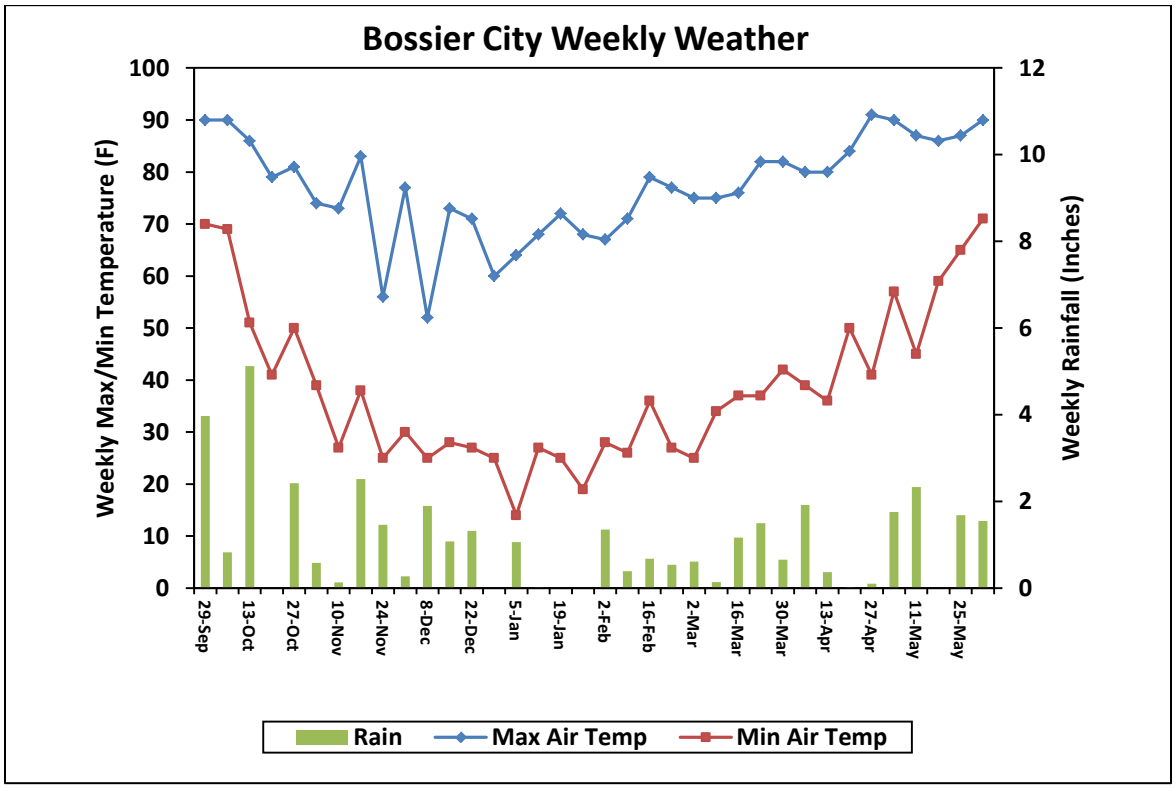
Heavy rainfall delayed harvest at Bossier City and resulted in significant lodging. The Louisiana experimental line LA02065SBSBSBSB-88 (109.4 bu/acre) had the highest yield of twenty four entries at Bossier City (Table 20). Two Florida lines, FL0720-R6 and FL0720-R5, and Horizon 201 and 207 all had yields above 99 bu/acre. The test mean yield was 80.0 bu/acre and yields were quite variable, due in part to severe lodging. Test weights, however, were comparable to Baton Rouge and Winnsboro and there was no disease pressure.

Winnsboro

Yields were good in Winnsboro with a test mean of 130.7 bu/acre (Table 21). TX09CS1112 had eh highest yield (168 bu/acre), followed by Horizon 270, Horizon 306, LA02065SBSBSBSB-88, and TX09CS1029 with yields high than 152 bu/acre. The three highest-yielding released varieties also had test weights higher than 34 lbs/bu. The test weight mean was 34.9 lbs/bu. As in Bossier City, pre harvest storms resulted in lodging. However, the lodging was moderate at this location and did not impact yields. Disease pressure was also low at Winnsboro. Some bird damage occurred on the edges of the field but did not significantly impact most plots.

Figure 1. Rainfall and temperature graphs.





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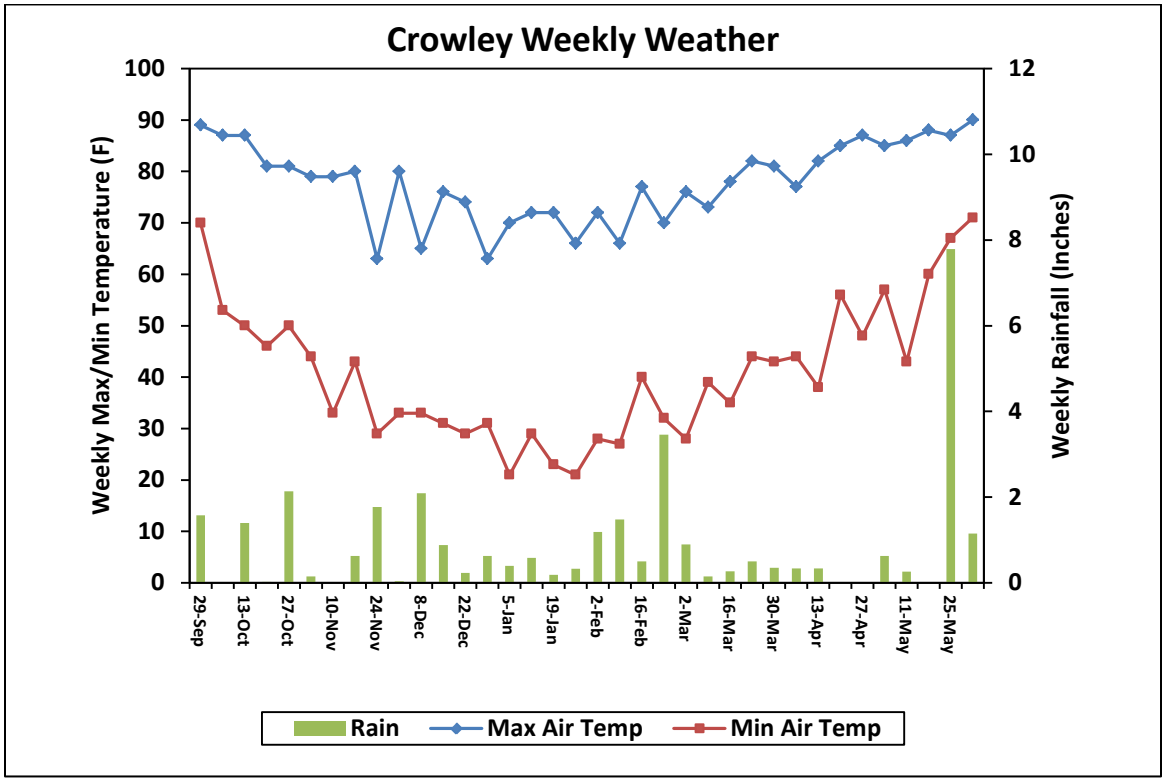

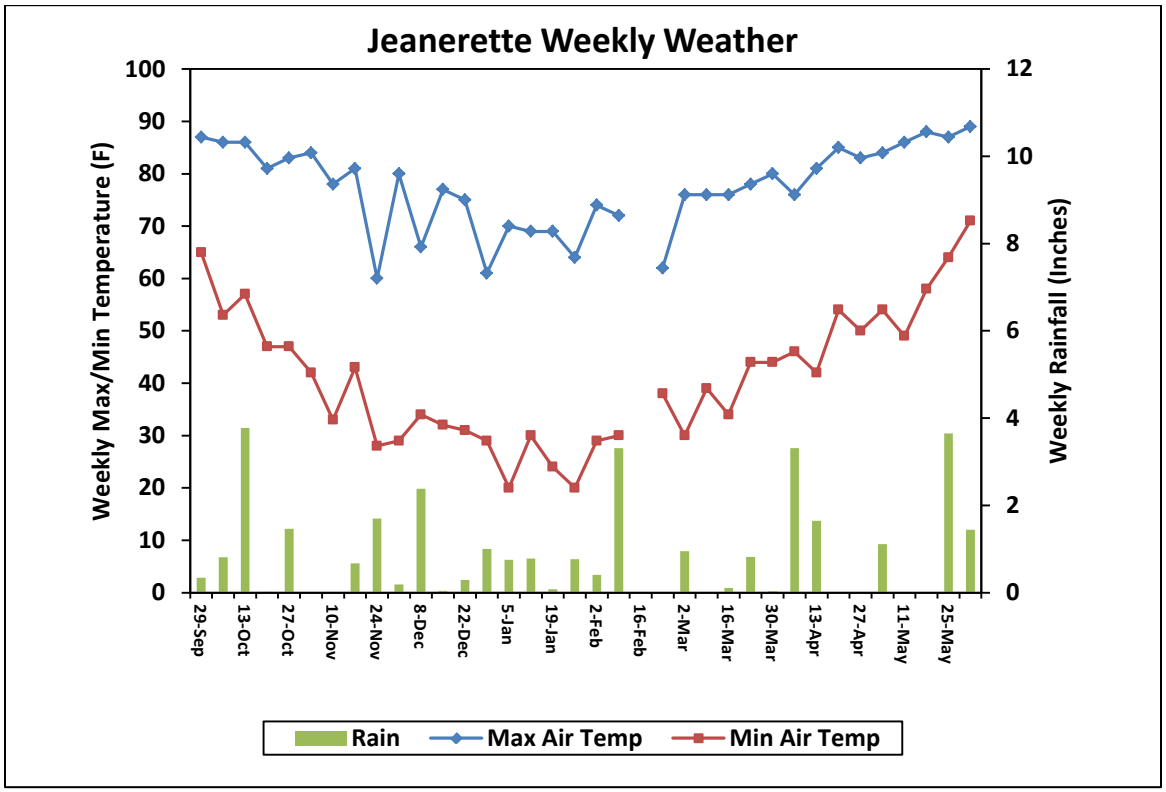

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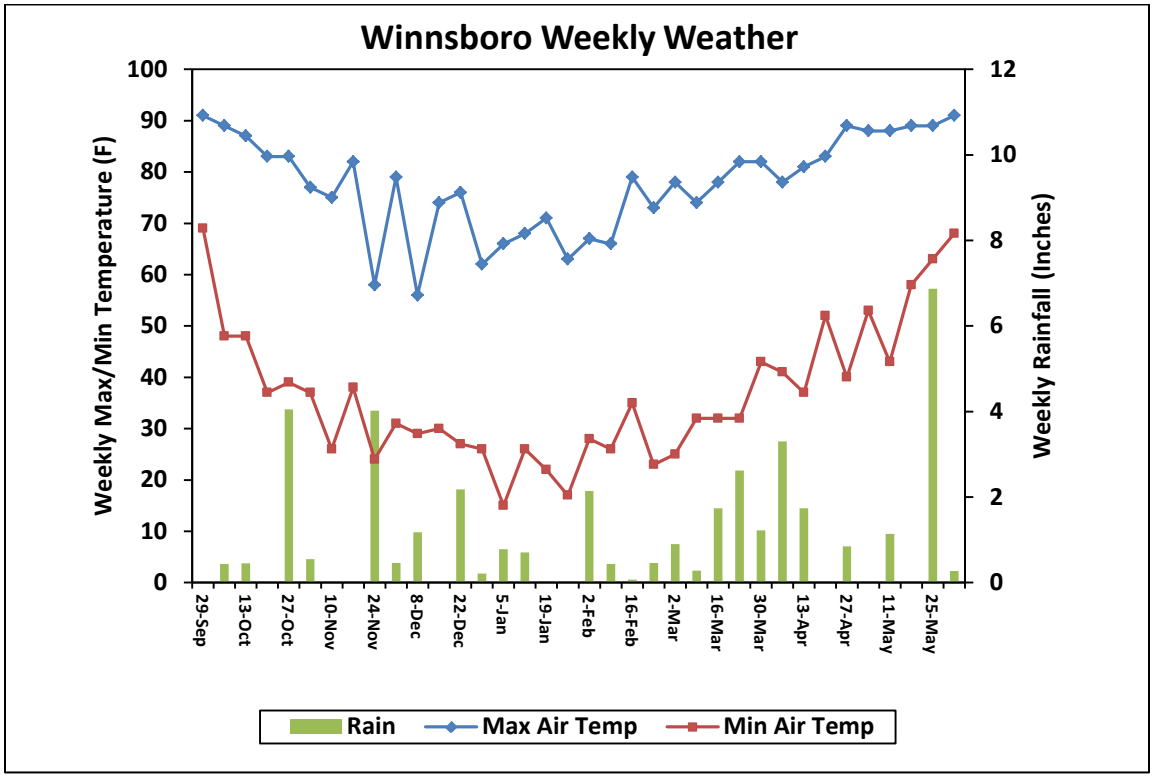

Table 1. Wheat performance trial at South Louisiana for 2014.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lod ging 0-9	Leaf Rust %	Pheno type 0-9
ARX1332	89.7	59.4	98	30	0.0	5	4.5
USG 3120	**87.9**	**60.4**	**88**	**34**	**0.0**	**0**	**4.0**
DELTA GROW 3200	**86.4**	**59.5**	**98**	**30**	**0.0**	**32**	**4.8**
GA04417-11E21	84.6	59.7	93	31	0.0	0	3.2
LA05130D-P5	84.6	60.0	92	33	0.0	23	3.8
TERRAL LA754	**84.1**	**59.5**	**90**	**34**	**0.0**	**2**	**3.8**
AGS 2038	**84.0**	**59.7**	**93**	**37**	**0.0**	**0**	**4.0**
GA-04434-11E44	83.9	59.1	92	31	0.0	0	3.7
JAMESTOWN	**83.8**	**60.7**	**87**	**30**	**0.0**	**0**	**4.2**
AGS 2035	**83.3**	**60.2**	**89**	**36**	**0.0**	**0**	**3.7**
TERRAL LA821	**83.2**	**59.6**	**88**	**33**	**0.0**	**0**	**4.0**
LA03200E-23	83.0	61.2	89	33	0.0	2	2.8
LA03200E-2	81.5	60.7	90	33	0.0	2	2.8
PIONEER XW13X	**81.3**	**60.8**	**89**	**35**	**0.0**	**0**	**4.7**
GA-041052-11E51	80.3	59.4	87	31	0.3	0	4.5
PIONEER 26R41	**80.2**	**58.5**	**100**	**30**	**0.0**	**3**	**3.5**
SYNGENTA SY CYPRESS	**79.4**	**59.9**	**88**	**31**	**0.0**	**3**	**4.8**
DYNA-GRO BALDWIN	**78.8**	**59.3**	**96**	**36**	**0.0**	**0**	**4.2**
LA05145D-118	78.7	60.9	88	34	0.0	0	4.0
LA07040D-P01	78.5	58.7	92	32	0.0	0	4.0
LA05145D-10	78.3	60.0	91	35	0.0	2	3.8
ARX1325	78.0	57.4	100	32	0.0	8	4.8
LA06146E-P04	77.9	60.0	85	33	0.0	0	4.3
USG 3024	**77.6**	**60.1**	**92**	**30**	**0.0**	**0**	**4.5**
DYNA-GRO 9171	**77.6**	**58.1**	**98**	**31**	**0.0**	**30**	**4.7**
LA07128C-91	77.5	60.2	89	31	0.0	0	4.3
GA-041293-11LE37	77.5	60.3	90	32	0.0	0	3.8
SYNGENTA COKER 9553	**77.3**	**60.0**	**93**	**33**	**0.0**	**5**	**3.8**
LA06146E-P4	77.0	60.7	82	33	0.0	0	3.7
LA05032D-136	76.3	60.0	93	35	0.0	0	4.2
ARX1327	76.0	57.8	98	33	0.0	40	4.3
AGS 2060	**75.9**	**60.5**	**89**	**35**	**0.5**	**0**	**4.2**
L-BRAND-343	**75.8**	**60.2**	**92**	**30**	**0.0**	**0**	**4.3**
PROGENY 125	**75.7**	**57.5**	**91**	**33**	**0.0**	**55**	**5.5**
TERRAL TV8525	**75.6**	**57.9**	**97**	**32**	**0.0**	**30**	**4.3**
PROGENY 870	**74.4**	**57.9**	**98**	**32**	**0.0**	**20**	**4.5**
DYNA-GRO OGLETHORPE	**74.2**	**58.7**	**90**	**32**	**0.5**	**0**	**4.7**
ARX1313	74.1	57.0	98	32	0.0	85	5.2
TERRAL LA841	**74.1**	**58.7**	**90**	**32**	**0.0**	**0**	**4.2**
GA-041293-11E54	74.1	58.9	90	32	0.0	0	4.0
LA08221C-23	73.1	59.6	93	31	0.0	0	5.5
AGS 2040	**72.9**	**60.3**	**87**	**33**	**0.0**	**0**	**3.5**
USG 3404	**72.9**	**58.1**	**99**	**33**	**0.0**	**13**	**4.3**
DELTA GROW 720X	**72.5**	**58.3**	**99**	**33**	**0.0**	**55**	**4.8**
AGS 2027	**71.2**	**58.4**	**92**	**31**	**0.0**	**0**	**4.8**
DELTA GROW 7100	**68.9**	**56.5**	**100**	**32**	**0.0**	**3**	**4.3**
AGS 2057	**68.1**	**56.8**	**108**	**34**	**0.0**	**0**	**5.7**
DIXIE GLORY	**61.0**	**53.5**	**104**	**35**	**0.0**	**0**	**4.2**
PGX 13-1	59.8	52.6	105	35	0.0	0	4.3
DELTA GROW 2100	**55.9**	**56.4**	**103**	**35**	**0.0**	**8**	**5.5**

Table 1. Wheat performance trial at South Louisiana for 2014.

Brand / variety	Grain Yield	Test Wt	Head Day	Plant Ht	Lodging	Leaf Rust	Phenotype
	bu/a	lbs/bu	of yr	in	0-9	%	0-9
Mean	**77.2**	**59.0**	**93.2**	**32.7**	**0.0**	**8.4**	**4.3**
CV	**9**	**1**	**1**	**4**	**849**	**119**	**10**
LSD (0.10)	**12.8**	**2.6**	**2.7**	**1.5**	**NS**		

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

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

Table 2. Wheat performance trial across South Louisiana for two years, 2013 and 2014.

	Grain Yield	Test Wt	Head Day	Plant Height	Lod Score	Leaf Rust	Pheno type
	bu/acre	lbs/bu	of yr	in	0-9	%	0-9
TERRAL LA754	**87.0**	**58.6**	**88**	**36**	**0.0**	**0**	**3.3**
AGS 2038	**86.6**	**59.0**	**90**	**38**	**0.7**	**0**	**3.5**
TERRAL LA821	**85.8**	**58.6**	**86**	**35**	**1.0**	**0**	**3.5**
USG 3120	**85.5**	**58.8**	**84**	**36**	**0.3**	**0**	**3.8**
LA06146E-P04	85.0	58.9	81	35	0.0	0	3.5
LA03200E-2	84.5	59.2	88	34	0.2	3	2.8
PIONEER XW13X	**84.2**	**60.0**	**86**	**36**	**0.0**	**0**	**3.5**
AGS 2035	**83.9**	**59.1**	**87**	**37**	**0.0**	**0**	**3.7**
LA03200E-23	83.0	59.7	87	35	0.3	1	3.4
JAMESTOWN	**81.9**	**59.0**	**86**	**32**	**0.0**	**0**	**3.3**
DYNA-GRO BALDWIN	**81.7**	**59.4**	**94**	**38**	**0.5**	**0**	**3.9**
SYNGENTA SY CYPRESS	**81.4**	**58.7**	**83**	**31**	**0.4**	**1**	**4.2**
L-BRAND-343	**80.7**	**59.4**	**92**	**32**	**0.3**	**0**	**4.0**
TERRAL LA841	**79.9**	**57.4**	**89**	**34**	**1.2**	**0**	**3.4**
AGS 2040	**79.2**	**58.9**	**85**	**34**	**0.2**	**0**	**3.6**
AGS 2060	**79.0**	**59.3**	**84**	**36**	**0.7**	**0**	**3.6**
PIONEER 26R41	**77.1**	**57.8**	**101**	**32**	**0.0**	**5**	**5.4**
AGS 2027	**76.4**	**57.8**	**93**	**33**	**0.5**	**0**	**4.3**
DYNA-GRO OGLETHORPE	**76.0**	**57.4**	**89**	**33**	**0.5**	**1**	**4.3**
PROGENY 125	**75.5**	**56.7**	**91**	**34**	**0.2**	**21**	**5.3**
SYNGENTA COKER 9553	**74.3**	**59.4**	**93**	**35**	**0.5**	**8**	**4.4**
DYNA-GRO 9171	**70.9**	**56.0**	**103**	**32**	**0.0**	**11**	**6.1**
PROGENY 870	**70.0**	**56.0**	**102**	**32**	**0.0**	**9**	**5.7**
TERRAL TV8525	**69.9**	**56.9**	**100**	**33**	**0.0**	**21**	**6.0**
MEAN	**79.9**	**58.4**	**90.3**	**34.3**	**0.3**	**3.5**	**4.1**
CV%	**9**	**1**	**2**	**4**	**215**	**181**	**10**
LSD (0.10)	**7.7**	**1.2**	**3.0**	**1.1**	**1.1**	**8.7**	**0.8**

Data from 2013 and 2014 at Central Station (Baton Rouge), Rice Research Station (Crowley), and Iberia Research Station (Jeanerette).

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

Lodging 0 = none and 9 = severe.

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

Table 3. Wheat performance trial at Baton Rouge, LA for 2014.

	Grain Yield			Test	Seed	Head	Plant	Leaf	Pheno	Stand	Canopy	FHB	Fus	FDK
	2014	rnk	2-Yr	Wt	Qual	Day	Ht	Rust	type		Density	RelMat	Hblight	
Brand / variety	**bu/a**			**lbs/bu**	**0-9**	**of yr**	**in**	**%**	**0-9**	**0-9**	**0-9**	**0-9**	**0-9**	**%**
TERRAL LA821	**100.5**	3	**94.8**	**58.4**	**3.0**	**88**	**35**	**0**	**4.0**	**3.5**	**4.0**	**5.0**	**3.5**	**7.5**
USG 3120	**105.1**	1	**94.2**	**60.1**	**3.5**	**89**	**37**	**0**	**4.0**	**5.5**	**6.0**	**5.0**	**7.0**	**22.5**
LA06146E-P04	89.5	21	89.5	59.8	2.8	87	32	0	4.3	4.5	5.5	5.0	8.0	57.5
AGS 2027	**96.4**	4	**88.6**	**58.9**	**3.0**	**92**	**33**	**0**	**4.8**	**5.0**	**6.0**	**6.5**	**4.0**	**10.0**
PIONEER 26R41	**92.7**	11	**88.3**	**57.7**	**3.0**	**97**	**32**	**3**	**3.5**	**4.0**	**3.0**	**6.0**	**3.5**	**15.0**
AGS 2035	**90.5**	18	**87.8**	**60.2**	**3.0**	**91**	**37**	**0**	**3.7**	**6.0**	**5.0**	**5.0**	**5.5**	**10.0**
DYNA-GRO BALDWIN	**91.3**	17	**87.5**	**59.5**	**3.3**	**95**	**38**	**0**	**4.2**	**6.0**	**4.0**	**5.0**	**4.0**	**5.0**
AGS 2038	**86.7**	27	**87.4**	**58.9**	**4.0**	**93**	**39**	**0**	**4.0**	**5.0**	**4.0**	**5.0**	**8.0**	**57.5**
PIONEER XW13X	94.5	5	87.4	60.8	3.0	89	37	0	4.7	6.5	5.5	6.5	3.5	12.5
AGS 2040	**87.3**	23	**87.3**	**59.8**	**3.3**	**89**	**34**	**0**	**3.5**	**4.0**	**4.0**	**5.5**	**4.5**	**10.0**
LA03200E-23	93.0	8	87.2	61.0	3.3	90	34	2	2.8	5.5	4.0	5.0	7.0	22.5
LA03200E-2	88.6	22	86.0	60.2	3.5	91	35	2	2.8	4.5	3.5	5.0	4.5	7.5
DYNA-GRO OGLETHORPE	**91.8**	16	**85.2**	**57.5**	**3.5**	**92**	**33**	**0**	**4.7**	**4.5**	**5.5**	**5.0**	**8.0**	**42.5**
L-BRAND-343	**91.9**	15	**84.4**	**59.9**	**3.3**	**92**	**33**	**0**	**4.3**	**5.0**	**4.5**	**7.0**	**3.0**	**30.0**
TERRAL LA754	**81.7**	41	**84.1**	**58.9**	**2.8**	**92**	**34**	**2**	**3.8**	**5.0**	**3.5**	**6.5**	**4.0**	**20.0**
PROGENY 125	**86.5**	28	**81.6**	**56.4**	**3.5**	**92**	**34**	**55**	**5.5**	**5.0**	**5.0**	**7.5**	**2.5**	**5.0**
TERRAL LA841	**85.8**	30	**81.4**	**57.3**	**3.5**	**92**	**33**	**0**	**4.2**	**4.5**	**3.5**	**7.5**	**2.0**	**40.0**
AGS 2060	**80.6**	44	**80.1**	**60.3**	**2.5**	**91**	**34**	**0**	**4.2**	**5.5**	**5.5**	**5.0**	**6.5**	**10.0**
JAMESTOWN	**92.4**	12	**79.8**	**60.3**	**2.8**	**89**	**31**	**0**	**4.2**	**5.0**	**5.5**	**5.5**	**8.5**	**60.0**
SYNGENTA SY CYPRESS	**81.0**	42	**78.7**	**59.4**	**3.5**	**90**	**32**	**3**	**4.8**	**6.0**	**5.0**	**5.5**	**4.5**	**22.5**
DYNA-GRO 9171	**84.9**	36	**78.6**	**56.5**	**4.0**	**96**	**32**	**30**	**4.7**	**4.5**	**4.5**	**5.0**	**5.0**	**7.5**
SYNGENTA COKER 9553	**85.0**	35	**78.1**	**60.1**	**2.5**	**93**	**34**	**5**	**3.8**	**5.5**	**4.5**	**6.5**	**4.5**	**7.5**
PROGENY 870	**82.7**	38	**77.9**	**56.1**	**3.8**	**96**	**32**	**20**	**4.5**	**4.0**	**4.0**	**5.5**	**4.0**	**20.0**
TERRAL TV8525	**84.1**	37	**77.9**	**56.3**	**3.3**	**96**	**33**	**30**	**4.3**	**4.5**	**4.0**	**4.5**	**3.0**	**5.0**
GA-04434-11E44	101.0	2		58.7	4.5	93	33	0	3.7	5.0	4.0	5.0	6.0	17.5
GA04417-11E21	93.7	6		59.6	3.0	93	34	0	3.2	4.5	4.5	4.5	3.0	5.0
GA-041052-11E51	93.2	7		59.9	3.0	87	32	0	4.5	6.0	5.5	5.0	2.5	5.0
USG 3404	**92.9**	9		**57.2**	**3.0**	**97**	**35**	**13**	**4.3**	**4.5**	**4.0**	**4.5**	**7.0**	**32.5**
ARX1332	92.8	10		59.1	2.8	97	31	5	4.5	5.0	4.0	6.5	3.5	32.5
LA06146E-P4	92.1	13		61.2	3.0	83	34	0	3.7	6.0	4.5	5.0	6.5	12.5
ARX1327	92.0	14		56.5	3.0	98	36	40	4.3	4.0	4.0	5.0	3.0	5.0
LA05145D-10	90.4	19		60.0	2.8	92	37	2	3.8	4.5	4.5	5.0	7.0	50.0
DELTA GROW 3200	**89.5**	20		**59.0**	**2.8**	**97**	**32**	**32**	**4.8**	**4.5**	**4.0**	**5.5**	**8.0**	**35.0**
ARX1325	87.2	24		56.8	3.0	98	33	8	4.8	5.0	4.0	4.5	3.5	5.0
DELTA GROW 720X	87.2	25		56.8	3.0	98	34	55	4.8	3.5	4.0	8.0	3.0	22.5
LA07040D-P01	86.9	26		57.8	3.0	93	33	0	4.0	5.0	4.0	4.5	5.0	5.0
GA-041293-11LE37	85.9	29		60.1	2.8	92	33	0	3.8	5.0	5.0	5.0	4.0	5.0
LA05145D-118	85.8	31		60.2	2.8	89	35	0	4.0	4.5	4.5	5.0	8.5	60.0
GA-041293-11E54	85.4	32		58.6	2.8	92	34	0	4.0	5.0	5.0	5.0	3.5	5.0
USG 3024	**85.4**	33		**60.1**	**3.0**	**93**	**32**	**0**	**4.5**	**4.0**	**4.5**	**5.5**	**7.5**	**42.5**
LA05130D-P5	85.1	34		59.0	2.8	92	35	23	3.8	6.0	4.0	5.5	7.5	37.5
ARX1313	82.1	39		55.2	3.5	97	34	85	5.2	5.0	4.0	5.0	6.5	17.5
LA05032D-136	81.8	40		59.6	2.5	93	35	0	4.2	4.5	4.0	5.0	2.5	5.0
DELTA GROW 7100	**80.9**	43		**54.9**	**4.5**	**99**	**34**	**3**	**4.3**	**4.5**	**4.0**	**7.0**	**4.5**	**32.5**
LA07128C-91	78.3	45		59.4	3.8	89	30	0	4.3	5.0	5.0	5.0	7.5	40.0
LA08221C-23	75.2	46		59.5	3.5	94	31	0	5.5	5.5	4.5	6.5	3.5	7.5
DELTA GROW 2100	**72.8**	47		**54.7**	**3.0**	**96**	**34**	**8**	**5.5**	**5.5**	**5.0**	**5.0**	**4.0**	**7.5**
AGS 2057	**66.7**	48		**58.1**	**4.3**	**107**	**36**	**0**	**5.7**	**3.5**	**3.0**	**5.0**	**8.0**	**17.5**
DIXIE GLORY	**64.3**	49		**55.0**	**4.3**	**100**	**39**	**0**	**4.2**	**3.5**	**4.0**	**5.0**	**9.0**	**42.5**
PGX 13-1	58.6	50		53.6	4.3	100	38	0	4.3	5.0	3.0	6.5	4.5	7.5

Table 3. Wheat performance trial at Baton Rouge, LA for 2014.

	Grain Yield			Test	Seed	Head	Plant	Leaf	Pheno	Stand	Canopy	FHB	Fus	FDK
	2014	rnk	2-Yr	Wt	Qual	Day	Ht	Rust	type		Density	RelMat	Hblight	
Brand / variety	**bu/a**			**lbs/bu**	**0-9**	**of yr**	**in**	**%**	**0-9**	**0-9**	**0-9**	**0-9**	**0-9**	**%**
Mean	**86.5**		**84.8**	**58.5**	**3.2**	**92.9**	**33.7**	**8.4**	**4.3**	**4.9**	**4.4**	**5.5**	**5.2**	**21.3**
CV%	**8**		**7**	**2**	**16**	**1**	**3**	**119**	**9**	**18**	**17**	**7**	**19**	**38**
LSD (0.10)	**8.4**		**8.8**	**1.1**	**0.6**	**1.2**	**1.8**	**16.7**	**0.7**	**NS**	**1.3**	**0.6**	**1.6**	**13.7**

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

Cultural and Site: Planted 11-08-13. Harvested 5-27-14 - before big rains started. 13-23-48+10S Preplant; 50-0-0 + 50-0-0 Topdress split. Finesse fall / Powerflex spring / followed by 4 oz sencor 2-20-14 (persistent Poa annua that would not die). Very low rust pressure until late grain fill. No lodging issues.

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

Data in shaded columns are from inoculated disease nurseries and not from the yield trials.

Seed Quality is a visual estimate of seed appeance (brightness, uniformity, shrivelling, discoloration) with a 0 = excellent and a 9 = very poor)

Stand Density and Canopy Desnity are two different measures of how well the plant filled in, one in seedling stage and CD after heading. There were some stand issues.

FusHblight is a 0-9 raitng of Fusarium Headblight from a misted, inoculated headrow nursery in Baton Rouge.

FDK is percent Fusarium damaged kernels from the misted, inoculated nursery.

FHBRelMat is relative heading date (0 = very early and 9 = very late) of the FHB headrows nursery. Very late heading entires (>7 probably escaped FHB and should not be considered as resistant). The headrow nursery was planted about a month later than the yield plots, so heading date and RelMat are somewhat different.

Table 4. Wheat performance trial at Crowley, LA for 2014.

Brand / variety	Grain Yield 2014 bu/a	Grain Yield 2-Yr	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lodging 0-9
USG 3120	**96.1**	**96.0**	**60.7**	**85**	**36.5**	**0.0**
PIONEER XW13X	93.8	94.6	60.8	87	38.3	0.0
LA06146E-P04	90.4	93.5	61.1	83	37.8	0.0
AGS 2040	**92.4**	**93.3**	**61.0**	**84**	**36.5**	**0.0**
AGS 2035	**94.8**	**92.8**	**60.8**	**85**	**39.0**	**0.0**
LA03200E-23	95.9	92.0	60.7	86	37.3	0.0
TERRAL LA754	**92.8**	**91.8**	**60.7**	**85**	**38.5**	**0.0**
LA03200E-2	92.8	91.0	60.8	86	36.5	0.0
SYNGENTA SY CYPRESS	**91.7**	**90.5**	**60.8**	**84**	**35.0**	**0.0**
TERRAL LA821	**89.1**	**89.3**	**60.9**	**85**	**35.5**	**0.0**
JAMESTOWN	**92.3**	**88.9**	**60.4**	**84**	**33.5**	**0.0**
AGS 2038	**93.4**	**84.4**	**60.6**	**90**	**39.3**	**0.0**
TERRAL LA841	**75.3**	**82.3**	**61.0**	**86**	**35.5**	**0.0**
DYNA-GRO BALDWIN	**78.6**	**81.9**	**60.9**	**92**	**38.5**	**0.0**
AGS 2060	**88.4**	**81.7**	**60.9**	**86**	**39.3**	**0.5**
DYNA-GRO OGLETHORPE	**81.0**	**78.6**	**61.2**	**85**	**35.0**	**0.5**
L-BRAND-343	**69.6**	**78.6**	**61.0**	**90**	**32.8**	**0.0**
PROGENY 125	**82.5**	**78.0**	**60.6**	**86**	**36.0**	**0.0**
SYNGENTA COKER 9553	**83.6**	**77.0**	**60.2**	**90**	**37.0**	**0.0**
AGS 2027	64.9	72.1	60.6	89	33.5	0.0
PROGENY 870	**80.8**	**71.4**	**60.8**	**96**	**34.0**	**0.0**
PIONEER 26R41	**75.3**	**70.5**	**60.7**	**96**	**32.0**	**0.0**
DYNA-GRO 9171	**81.9**	**67.8**	**60.9**	**95**	**34.3**	**0.0**
TERRAL TV8525	**71.7**	**61.2**	**60.3**	**94**	**34.3**	**0.0**
GA-041052-11E51	102.2		60.5	84	34.5	0.3
ARX1332	96.5		60.6	94	32.0	0.0
GA04417-11E21	94.8		61.1	91	34.8	0.0
LA07128C-91	93.3		60.9	86	34.3	0.0
LA05130D-P5	92.5		61.2	89	35.3	0.0
GA-041293-11LE37	92.5		61.0	86	36.0	0.0
LA06146E-P4	92.1		60.5	83	37.0	0.0
DELTA GROW 3200	**90.3**		**60.6**	**94**	**31.8**	**0.0**
GA-04434-11E44	89.6		61.0	89	34.8	0.0
LA07040D-P01	88.4		61.0	89	36.0	0.0
GA-041293-11E54	88.1		60.3	87	35.0	0.0
LA05145D-118	87.3		60.6	83	37.8	0.0
LA05145D-10	85.3		60.7	88	37.3	0.0
LA05032D-136	84.3		60.9	90	38.0	0.0
LA08221C-23	80.5		60.6	90	33.5	0.0
ARX1313	76.4		61.3	95	34.5	0.0
USG 3024	**75.3**		**61.0**	**90**	**33.5**	**0.0**
AGS 2057	**75.3**		**61.2**	**103**	**35.0**	**0.0**
ARX1325	72.8		61.1	96	34.5	0.0
PGX 13-1	65.2		61.3	99	36.0	0.0
DIXIE GLORY	**64.6**		**61.1**	**98**	**36.5**	**0.0**
DELTA GROW 7100	**63.1**		**60.8**	**96**	**33.0**	**0.0**
ARX1327	60.0		61.1	96	34.3	0.0
USG 3404	**57.6**		**61.2**	**96**	**34.5**	**0.0**
DELTA GROW 720X	57.0		61.4	96	36.0	0.0
DELTA GROW 2100	**53.6**		**61.2**	**96**	**37.8**	**0.0**

Table 4. Wheat performance trial at Crowley, LA for 2014.

Brand / variety	Grain Yield 2014 bu/a	Grain Yield 2-Yr	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lodging 0-9
Mean	**82.5**	**84.2**	**60.8**	**89.8**	**35.6**	**0.0**
CV	**7**	**7**	**1**	**1**	**4**	**849**
LSD (0.10)	**6.8**	**13.5**	**0.4**	**1.2**	**1.6**	**NS**

Data from Rice Research Station - South Farm, Crowley, LA. Dustin Harrell, Don Groth, Boyd Padgett, Ron Regan, James P. Leonards, and Jacob Fluitt.

Cultural and Site: Planted 11-11-13. Harvested 5-22-14 - before big rains started. Fertilizer: 21-55-55-6 applied 11-21-13; 90-0-0 + Agrotain topdress on 2-17-14. Finesse Herbicde at 0.4 oz/a on 11-14-13; Osprey art 4.75 oz/a on 12-17-13; Harmony Extra at 0.9 oz/a on 12-17-13.

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

Table 5. Wheat performance trial at Jeanerette, LA for 2014.

Brand / variety	Grain Yield 2014 bu/a	Grain Yield 2-YR	Test Wt lbs/bu	Heading Day of yr	Plant Ht in
TERRAL LA754	**77.8**	**85.1**	**59.1**	**93**	**31**
L-BRAND-343	**66.0**	**79.0**	**59.6**	**95**	**26**
AGS 2038	**71.9**	**77.9**	**59.5**	**97**	**35**
JAMESTOWN	**66.7**	**77.0**	**61.4**	**90**	**27**
LA03200E-2	63.1	76.5	61.1	93	28
DYNA-GRO BALDWIN	**69.6**	**76.5**	**57.3**	**101**	**33**
TERRAL LA841	**61.3**	**76.0**	**57.7**	**94**	**29**
SYNGENTA SY CYPRESS	**65.5**	**74.7**	**59.4**	**92**	**28**
TERRAL LA821	**59.9**	**73.1**	**59.7**	**90**	**29**
PIONEER 26R41	**72.7**	**72.4**	**57.2**	**104**	**27**
LA06146E-P04	53.8	72.1	59.0	85	29
AGS 2035	**64.6**	**71.1**	**59.7**	**93**	**32**
LA03200E-23	60.0	69.9	61.8	93	28
TERRAL TV8525	**71.1**	**69.4**	**57.2**	**101**	**28**
AGS 2060	**58.6**	**69.2**	**60.1**	**92**	**31**
PIONEER XW13X	55.5	69.0	60.9	91	31
AGS 2027	**52.3**	**68.4**	**55.6**	**94**	**28**
SYNGENTA COKER 9553	**63.5**	**67.9**	**59.7**	**97**	**28**
PROGENY 125	58.1	67.0	55.5	96	29
DYNA-GRO 9171	**65.9**	**66.3**	**56.9**	**102**	**28**
USG 3120	**62.6**	**66.2**	**60.6**	**90**	**30**
DYNA-GRO OGLETHORPE	**49.8**	**64.3**	**57.4**	**93**	**28**
PROGENY 870	**59.6**	**59.6**	**56.7**	**102**	**30**
AGS 2040	**39.1**	**57.0**	**60.1**	**90**	**29**
ARX1332	79.7		58.5	103	27
DELTA GROW 3200	**79.6**		**59.0**	**102**	**27**
ARX1327	76.1		55.7	101	30
LA05130D-P5	76.0		60.2	94	29
ARX1325	73.9		54.3	105	29
DELTA GROW 720X	73.2		56.7	103	31
USG 3404	**73.1**		**55.8**	**103**	**31**
USG 3024	**72.2**		**59.4**	**95**	**27**
GA04417-11E21	65.2		58.3	96	26
ARX1313	63.9		54.5	103	29
LA08221C-23	63.6		58.8	96	28
LA05145D-118	62.9		61.8	91	29
LA05032D-136	62.7		59.5	96	31
DELTA GROW 7100	**62.7**		**55.0**	**104**	**29**
LA05145D-10	62.2		59.3	94	31
AGS 2057	**62.2**		**51.1**	**113**	**33**
GA-04434-11E44	61.1		57.7	95	26
LA07128C-91	61.0		60.3	92	28
LA07040D-P01	60.2		57.4	95	28
PGX 13-1	55.6		45.0	113	32
GA-041293-11LE37	54.1		59.7	93	27
DIXIE GLORY	**54.0**		**44.3**	**113**	**31**
GA-041052-11E51	48.8		58.0	89	28
GA-041293-11E54	48.8		58.1	93	28
LA06146E-P4	46.9		60.6	80	29
DELTA GROW 2100	**41.5**		**53.2**	**113**	**33**

Table 5. Wheat performance trial at Jeanerette, LA for 2014.

	Grain Yield		Test	Heading	Plant
	2014	2-YR	Wt	Day	Ht
Brand / variety	**bu/a**		**lbs/bu**	**of yr**	**in**
Mean	**62.6**	**71.1**	**57.7**	**96.7**	**29.2**
CV	**13**	**13**	**2**	**2**	**4**
LSD (0.10)	**9.5**	**14.3**	**1.2**	**1.7**	**1.4**

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

Cultural and Site: Planted 11-8-13; harvested 5-20-14. Finesse herbicide at 0.5 oz/acre on 11-19-13. Axial herbicide at 1.2 pts/acre on 3-10-14 for ryegrass. 22-22-22 starter fertilizer on 11-21-13; 100-0-17 topdressed on 2-24-14. Weather conditions for Jeanerette: January's average low was 32 degrees and High was 56 degrees, Total rainfall for growing cycle Nov-Apr was 21 inches and the two wettest months were February (4.62") and April (4.99") No significant lodging at this location, and minimal bird damage primarily in the earliest heading varieties.

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

Heading Dates had an extreme range of 44 days (March 18 to May 1) due to the warm winter and long vernalization / photoperiod requirement of some entries. Late-heading entries generally had very poor test weights. Yield was significantly correlated with all other traits: YIELD: HD = -0.73**, TW = 0.78**, LR = -0.55**, SR = -0.33*, PHE = -0.55**. This means that higher yielding lines generally were earlier heading, had higher test weights, had less leaf rust, had less stripe rust, and looked better.

NS indicates non-significant differences among varieties

Table 6. Wheat performance trial across North Louisiana for 2014.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Heading Day of yr	Plant Ht in	Lodging Score 0-9	Leaf Rust %	Bacterial Streak 0-9	Fusarium Hblight 0-9	Pheno type 0-9
DYNA-GRO 9171	**87.7**	**55.3**	**106**	**34**	**0.7**	**5**	**1.0**	**0.5**	**4.0**
PIONEER 26R41	**86.8**	**56.6**	**108**	**35**	**0.7**	**0**	**0.4**	**0.5**	**4.4**
ARX1325	85.8	57.0	109	35	0.7	3	1.8	0.0	4.1
TERRAL TV8861	**84.5**	**57.0**	**109**	**35**	**1.3**	**10**	**0.8**	**0.0**	**4.4**
USG 3201	**84.5**	**58.0**	**106**	**35**	**0.8**	**0**	**0.5**	**0.0**	**4.8**
DELTA GROW 720X	83.8	56.7	108	37	0.8	3	0.8	0.0	4.4
PIONEER 26R10	**83.7**	**55.9**	**108**	**35**	**1.3**	**12**	**0.7**	**0.0**	**4.0**
AGS 2057	**83.7**	**57.4**	**100**	**37**	**0.7**	**0**	**0.7**	**0.0**	**5.4**
LA06146E-P04	83.5	57.0	100	38	2.5	0	3.8	0.0	3.9
USG 3404	**83.5**	**56.2**	**107**	**37**	**0.7**	**5**	**0.7**	**0.0**	**3.4**
ARMOR VANDAL	**83.2**	**56.1**	**106**	**35**	**1.0**	**0**	**2.1**	**0.3**	**3.8**
ARMOR HAVOC	**83.2**	**56.2**	**107**	**35**	**0.8**	**17**	**0.7**	**0.3**	**4.0**
TERRAL TV8535	**83.0**	**55.1**	**106**	**34**	**0.8**	**2**	**0.8**	**0.0**	**3.9**
SYNGENTA HARRISON	**83.0**	**54.3**	**107**	**36**	**0.7**	**8**	**0.7**	**0.0**	**4.0**
TERRAL TV8848	**82.3**	**56.2**	**108**	**37**	**1.5**	**13**	**1.0**	**0.0**	**4.0**
AGS 2038	**82.2**	**57.4**	**107**	**40**	**1.2**	**0**	**0.5**	**0.3**	**4.4**
DELTA GROW 7500	**82.1**	**55.3**	**107**	**34**	**1.0**	**2**	**0.9**	**0.0**	**4.4**
ARX1313	82.0	54.5	106	36	1.2	7	1.9	0.5	4.1
PIONEER 26R53	**81.9**	**57.5**	**108**	**33**	**0.7**	**3**	**1.1**	**0.0**	**3.8**
DELTA GROW 3200	**81.9**	**57.0**	**106**	**32**	**1.2**	**0**	**2.0**	**0.0**	**4.6**
TERRAL LA754	**81.7**	**56.6**	**102**	**36**	**0.8**	**2**	**1.1**	**1.5**	**3.1**
DIXIE DXEX13-3	81.7	56.9	109	39	0.7	3	1.8	0.0	4.6
AGS 2056	**81.6**	**55.3**	**106**	**34**	**1.2**	**3**	**1.1**	**0.0**	**4.4**
DELTA GROW 7100	**81.2**	**55.6**	**108**	**37**	**0.7**	**0**	**1.0**	**0.0**	**3.8**
DYNA-GRO BALDWIN	**81.0**	**58.5**	**108**	**41**	**0.7**	**1**	**0.3**	**0.0**	**4.5**
ARX1327	80.9	55.7	109	37	0.8	8	0.5	0.0	4.1
GA-04434-11E44	80.5	57.4	105	34	0.7	0	1.7	0.0	4.3
PIONEER 26R20	**80.5**	**57.6**	**108**	**37**	**1.5**	**3**	**0.2**	**0.0**	**4.4**
PROGENY 870	**80.4**	**54.8**	**106**	**34**	**0.8**	**5**	**0.7**	**0.0**	**4.0**
USG 3833	**80.3**	**54.5**	**111**	**37**	**0.7**	**0**	**0.7**	**0.0**	**4.1**
USG 3120	**80.3**	**58.1**	**100**	**38**	**0.7**	**0**	**1.1**	**2.8**	**3.8**
GA04417-11E21	80.3	54.8	102	34	1.7	0	1.9	1.0	4.6
TERRAL TV8525	**80.2**	**57.1**	**106**	**35**	**1.0**	**3**	**1.3**	**0.5**	**4.0**
DIXIE GLORY	**80.2**	**54.8**	**110**	**37**	**0.7**	**0**	**0.6**	**0.0**	**3.5**
DIXIE MCALISTER	**79.3**	**54.6**	**107**	**34**	**0.7**	**10**	**0.6**	**0.0**	**5.0**
LA07128C-91	79.1	57.4	100	34	1.2	0	1.6	2.0	3.8
DIXIE XTREME	**79.0**	**54.5**	**110**	**38**	**1.2**	**12**	**0.4**	**0.0**	**3.9**
PIONEER 26R87	**79.0**	**59.4**	**100**	**34**	**0.7**	**0**	**3.2**	**1.0**	**4.1**
ARX1332	78.9	56.8	107	31	1.3	0	2.0	0.0	4.9
ARMOR OCTANE	**78.9**	**54.6**	**110**	**37**	**0.7**	**0**	**0.9**	**0.3**	**4.6**
LA06146E-P4	78.8	58.8	99	35	0.7	0	2.6	0.3	4.1
GA-041052-11E51	78.7	57.1	100	33	1.8	0	3.8	2.5	4.1
LA03200E-23	78.5	58.0	102	35	0.7	0	2.0	1.8	3.6
JAMESTOWN	**78.5**	**58.1**	**100**	**33**	**0.7**	**0**	**2.1**	**1.0**	**3.9**
TERRAL LA821	**78.4**	**57.0**	**100**	**37**	**0.7**	**0**	**1.4**	**0.3**	**4.4**
LA05130D-P5	78.3	59.8	103	34	1.2	5	0.9	0.8	3.9
PGX 13-1	78.0	54.1	111	36	0.7	0	1.1	0.0	4.4
PIONEER XW13X	77.6	57.9	101	38	0.7	0	0.7	0.3	4.4
SYNGENTA SY CYPRESS	**77.6**	**57.3**	**101**	**34**	**0.7**	**2**	**2.8**	**0.3**	**4.0**
DELTA GROW 7200	**77.3**	**55.9**	**107**	**36**	**0.8**	**7**	**0.9**	**0.0**	**4.6**

Table 6. Wheat performance trial across North Louisiana for 2014.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Heading Day of yr	Plant Ht in	Lodging Score 0-9	Leaf Rust %	Bacterial Streak 0-9	Fusarium Hblight 0-9	Pheno type 0-9
GA-041293-11E54	77.1	55.9	102	35	0.7	0	1.4	2.8	3.5
LA08221C-23	76.2	57.1	103	35	1.0	0	0.7	0.0	4.8
DELTA GROW 9700	**76.0**	**53.9**	**109**	**38**	**1.2**	**7**	**0.7**	**0.0**	**4.1**
PROGENY 125	**75.9**	**54.5**	**100**	**33**	**0.8**	**15**	**2.3**	**1.0**	**4.4**
AGS 2035	**75.8**	**57.9**	**101**	**37**	**0.8**	**0**	**1.1**	**0.5**	**4.5**
SYNGENTA COKER 9553	**75.7**	**57.4**	**102**	**36**	**0.7**	**0**	**1.1**	**1.3**	**3.1**
LA03200E-2	75.7	57.9	102	35	0.7	2	1.9	1.0	3.1
LA07040D-P01	75.5	54.1	104	36	0.7	0	0.9	1.5	4.3
DYNA-GRO OGLETHORPE	**75.4**	**55.8**	**100**	**33**	**1.3**	**0**	**1.9**	**3.0**	**4.1**
PROGENY 185	**75.0**	**55.8**	**105**	**40**	**0.8**	**34**	**1.0**	**0.0**	**5.6**
GA-041293-11LE37	74.8	57.5	102	35	1.7	0	0.9	1.5	3.8
LA05032D-136	74.5	58.2	106	37	0.7	0	0.8	1.0	4.6
LA05145D-10	74.0	58.4	102	39	0.8	0	1.9	0.8	4.0
DELTA GROW 2100	**73.7**	**55.7**	**107**	**39**	**3.2**	**0**	**1.2**	**0.0**	**5.5**
TERRAL LA841	**73.6**	**55.2**	**102**	**36**	**0.7**	**0**	**0.7**	**1.5**	**4.6**
LA05145D-118	73.5	59.1	101	37	1.0	0	2.5	0.8	4.4
AGS 2027	**73.1**	**55.1**	**102**	**34**	**4.2**	**0**	**2.3**	**2.5**	**4.4**
DIXIE KELSEY	**72.9**	**56.6**	**101**	**36**	**0.7**	**19**	**1.5**	**1.8**	**5.3**
L-BRAND-343	**72.7**	**57.6**	**103**	**34**	**1.8**	**0**	**4.7**	**2.3**	**4.5**
USG 3024	**72.4**	**57.6**	**103**	**33**	**0.7**	**0**	**4.0**	**1.8**	**4.3**
AGS 2060	**72.3**	**58.9**	**103**	**39**	**0.8**	**0**	**3.2**	**0.8**	**4.5**
AGS 2040	**70.8**	**57.4**	**100**	**34**	**0.7**	**0**	**2.3**	**0.8**	**3.5**
PROGENY 357	**70.5**	**52.5**	**109**	**35**	**2.7**	**15**	**0.8**	**0.0**	**5.0**
Mean	**79.1**	**56.5**	**105**	**36**	**1.0**	**3**	**1.4**	**0.6**	**4.2**
CV	**10**	**2**	**4**	**5**	**98**	**194**	**68**	**150**	**16**
LSD	**6.2**	**1.1**	**2.9**	**1.7**	**1.1**	**16**	**1.0**	**1.2**	**1.0**

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

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

NS indicates non-significant differences among varieties.

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Table 7. Wheat performance trial across North Louisiana for 2013 and 2014.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Heading Day of yr	Plant Ht in	Lodging Score 0-9	Stripe Rust %	Leaf Rust %	Bacterial Streak 0-9	Fus Hblight 0-9	Pheno type 0-9
ARMOR VANDAL	**87.3**	**56.4**	**105**	**36**	**0.5**	**2**	**1**	**2.1**	**0.3**	**4.1**
PIONEER 26R41	**87.1**	**56.6**	**107**	**36**	**1.1**	**0**	**1**	**0.4**	**0.5**	**4.3**
USG 3201	**86.7**	**58.1**	**106**	**36**	**0.7**	**0**	**1**	**0.5**	**0.0**	**4.9**
DYNA-GRO 9171	**86.5**	**55.4**	**107**	**36**	**0.3**	**0**	**3**	**1.0**	**0.5**	**4.4**
PIONEER 26R53	**85.0**	**57.6**	**107**	**34**	**0.6**	**0**	**2**	**1.1**	**0.0**	**4.2**
ARMOR OCTANE	**84.5**	**55.2**	**111**	**38**	**0.3**	**0**	**0**	**0.9**	**0.3**	**4.8**
AGS 2056	**83.6**	**55.3**	**106**	**36**	**0.6**	**0**	**2**	**1.1**	**0.0**	**4.8**
USG 3833	**83.4**	**55.2**	**112**	**39**	**0.3**	**1**	**0**	**0.7**	**0.0**	**4.6**
TERRAL TV8861	**82.7**	**56.0**	**108**	**37**	**1.4**	**0**	**6**	**0.8**	**0.0**	**4.3**
SYNGENTA HARRISON	**82.1**	**53.9**	**106**	**37**	**0.6**	**1**	**5**	**0.7**	**0.0**	**4.4**
TERRAL TV8535	**82.1**	**55.1**	**106**	**36**	**0.4**	**0**	**1**	**0.8**	**0.0**	**4.3**
PIONEER 26R10	**81.9**	**54.8**	**107**	**36**	**1.6**	**1**	**6**	**0.7**	**0.0**	**4.4**
DIXIE DXEX13-3	81.8	56.6	109	40	0.3	0	2	1.8	0.0	5.0
TERRAL TV8848	**81.7**	**55.5**	**108**	**38**	**1.3**	**0**	**7**	**1.0**	**0.0**	**4.5**
ARMOR HAVOC	**81.6**	**55.7**	**106**	**36**	**0.9**	**0**	**10**	**0.7**	**0.3**	**4.4**
DELTA GROW 7500	**81.5**	**55.5**	**107**	**36**	**1.2**	**0**	**1**	**0.9**	**0.0**	**4.5**
AGS 2038	**81.1**	**58.0**	**104**	**41**	**0.6**	**1**	**0**	**0.5**	**0.3**	**4.3**
TERRAL TV8525	**80.9**	**56.9**	**105**	**36**	**1.1**	**1**	**2**	**1.3**	**0.5**	**4.1**
DIXIE MCALISTER	**80.9**	**54.7**	**107**	**35**	**0.3**	**0**	**5**	**0.6**	**0.0**	**5.0**
PROGENY 870	**80.6**	**55.0**	**107**	**35**	**0.4**	**0**	**3**	**0.7**	**0.0**	**4.8**
LA06146E-P04	80.2	57.5	95	38	1.7	2	0	3.8	0.0	3.8
PIONEER 26R20	**79.8**	**58.3**	**108**	**39**	**1.3**	**4**	**2**	**0.2**	**0.0**	**4.9**
DIXIE XTREME	**78.9**	**53.9**	**107**	**40**	**1.2**	**0**	**8**	**0.4**	**0.0**	**4.3**
DELTA GROW 7200	**78.5**	**55.4**	**106**	**37**	**1.3**	**0**	**5**	**0.9**	**0.0**	**4.4**
PIONEER XW13X	78.3	58.9	97	38	0.3	2	0	0.7	0.3	4.1
SYNGENTA COKER 9553	**77.7**	**58.5**	**100**	**37**	**0.4**	**1**	**1**	**1.1**	**1.3**	**3.3**
TERRAL LA754	**77.3**	**57.1**	**97**	**37**	**0.6**	**11**	**1**	**1.1**	**1.5**	**4.1**
DYNA-GRO BALDWIN	**77.0**	**58.2**	**105**	**41**	**0.5**	**17**	**0**	**0.3**	**0.0**	**4.6**
SYNGENTA SY CYPRESS	**76.8**	**57.4**	**96**	**34**	**0.4**	**6**	**1**	**2.8**	**0.3**	**4.9**
JAMESTOWN	**76.3**	**58.9**	**96**	**34**	**0.3**	**1**	**1**	**2.1**	**1.0**	**3.8**
DELTA GROW 9700	**76.0**	**53.7**	**107**	**39**	**1.3**	**0**	**4**	**0.7**	**0.0**	**4.1**
AGS 2060	**75.8**	**59.0**	**98**	**39**	**0.4**	**3**	**0**	**3.2**	**0.8**	**4.4**
L-BRAND-343	**75.3**	**58.2**	**100**	**35**	**0.9**	**8**	**0**	**4.7**	**2.3**	**4.2**
PIONEER 26R87	**74.9**	**59.7**	**99**	**36**	**0.5**	**10**	**1**	**3.2**	**1.0**	**4.3**
LA03200E-23	74.9	58.8	98	35	0.5	1	1	2.0	1.8	3.6
USG 3120	**74.3**	**58.4**	**95**	**39**	**0.6**	**11**	**0**	**1.1**	**2.8**	**4.3**
PROGENY 125	**74.1**	**55.6**	**98**	**35**	**0.4**	**1**	**9**	**2.3**	**1.0**	**4.1**
LA03200E-2	73.3	58.5	97	34	0.3	2	1	1.9	1.0	3.4
AGS 2027	**72.9**	**56.4**	**100**	**35**	**3.0**	**5**	**0**	**2.3**	**2.5**	**4.4**
PROGENY 185	**72.4**	**56.2**	**104**	**40**	**0.4**	**26**	**17**	**1.0**	**0.0**	**5.8**
TERRAL LA821	**72.3**	**57.7**	**95**	**37**	**0.5**	**12**	**0**	**1.4**	**0.3**	**4.6**
DYNA-GRO OGLETHORPE	**72.1**	**56.7**	**97**	**34**	**1.1**	**4**	**0**	**1.9**	**3.0**	**3.9**
AGS 2035	**72.0**	**58.3**	**96**	**39**	**0.4**	**13**	**0**	**1.1**	**0.5**	**4.9**
TERRAL LA841	**71.5**	**56.1**	**98**	**36**	**0.7**	**2**	**0**	**0.7**	**1.5**	**4.3**
AGS 2040	**69.7**	**58.0**	**95**	**35**	**0.4**	**9**	**0**	**2.3**	**0.8**	**3.8**
PROGENY 357	**66.6**	**52.1**	**109**	**36**	**2.1**	**4**	**8**	**0.8**	**0.0**	**5.1**
Mean	**78.5**	**56.6**	**103**	**37**	**0.8**	**4**	**3**	**1.4**	**0.6**	**4.4**
CV%	**10**	**2**	**2**	**5**	**149**	**99**	**208**	**64**	**145**	**14**
LSD (0.10)	**5.8**	**1.0**	**2.6**	**2.6**	**1.3**	**8.7**	**NS**	**1.0**	**1.2**	**0.7**

Data from Alexandria, Bossier City, St. Joseph, and Winnsboro, LA for 2014 and BC, SJ, and WN for 2013.

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

Table 7. Wheat performance trial across North Louisiana for 2013 and 2014.

Brand / variety	Grain Yield	Test Wt	Heading Day	Plant Ht	Lodging Score	Stripe Rust	Leaf Rust	Bacterial Streak	Fus Hblight	Pheno type
	bu/a	lbs/bu	of yr	in	0-9	%	%	0-9	0-9	0-9

The correlation between heading date and yield for two year means is r = 0.62**. This implies a strong association between heading dates and yield, with later-heading varieties having higher yields for the past two years. This is probably a reflection of the freeze damage sustained in the spring of 2013.

NS indicates non-significant differences among varieties.

Table 8. Wheat performance trial across North Louisiana for 2012, 2013, and 2014.

Brand / variety	Grain Yield	Test Wt	Heading Day	Plant Ht	Lodging Score	Stripe Rust	Leaf Rust	Bacterial Streak	Fusarium Hblight	Pheno type
	bu/a	lbs/bu	of yr	in	0-9		%	0-9	0-9	0-9
PIONEER 26R41	**83.3**	**56.8**	**103**	**36**	**0.7**	**0**	**1**	**0.4**	**0.5**	**4.2**
DYNA-GRO 9171	**81.1**	**55.3**	**103**	**36**	**0.5**	**0**	**4**	**1.0**	**0.5**	**4.5**
USG 3201	**80.9**	**58.2**	**103**	**36**	**0.8**	**0**	**3**	**0.5**	**0.0**	**4.9**
PIONEER 26R53	**80.7**	**57.6**	**103**	**34**	**0.5**	**0**	**2**	**1.1**	**0.0**	**4.2**
AGS 2056	**80.2**	**55.2**	**104**	**36**	**0.4**	**0**	**2**	**1.1**	**0.0**	**4.7**
PROGENY 870	**77.8**	**54.8**	**104**	**35**	**0.3**	**0**	**4**	**0.7**	**0.0**	**4.8**
TERRAL TV8535	**77.5**	**55.1**	**103**	**36**	**0.4**	**0**	**2**	**0.8**	**0.0**	**4.5**
SYNGENTA HARRISON	**77.4**	**53.7**	**103**	**36**	**0.5**	**1**	**11**	**0.7**	**0.0**	**4.4**
AGS 2038	**77.4**	**58.0**	**100**	**41**	**0.7**	**1**	**0**	**0.5**	**0.3**	**4.2**
TERRAL TV8861	**76.9**	**55.8**	**105**	**37**	**1.7**	**0**	**8**	**0.8**	**0.0**	**4.4**
DELTA GROW 7500	**76.9**	**55.4**	**104**	**36**	**0.7**	**0**	**3**	**0.9**	**0.0**	**4.7**
PIONEER 26R10	**76.6**	**54.2**	**104**	**36**	**1.2**	**1**	**10**	**0.7**	**0.0**	**4.3**
TERRAL TV8848	**76.6**	**55.1**	**104**	**38**	**1.3**	**0**	**8**	**1.0**	**0.0**	**4.6**
DIXIE MCALISTER	**76.1**	**54.7**	**104**	**35**	**0.2**	**0**	**6**	**0.6**	**0.0**	**4.9**
TERRAL TV8525	**75.0**	**56.6**	**101**	**36**	**1.2**	**1**	**12**	**1.3**	**0.5**	**4.2**
ARMOR HAVOC	**75.0**	**54.9**	**102**	**37**	**1.1**	**0**	**27**	**0.7**	**0.3**	**4.6**
DYNA-GRO BALDWIN	**73.9**	**58.1**	**101**	**41**	**0.3**	**17**	**0**	**0.3**	**0.0**	**4.6**
JAMESTOWN	**73.8**	**59.2**	**92**	**34**	**0.5**	**1**	**1**	**2.1**	**1.0**	**3.9**
PIONEER 26R87	**73.6**	**59.6**	**95**	**36**	**0.5**	**10**	**1**	**3.2**	**1.0**	**4.3**
AGS 2060	**73.5**	**59.0**	**94**	**38**	**1.0**	**3**	**0**	**3.2**	**0.8**	**4.5**
TERRAL LA754	**73.4**	**56.8**	**93**	**37**	**0.9**	**11**	**1**	**1.1**	**1.5**	**4.0**
USG 3120	**73.2**	**58.5**	**91**	**39**	**0.8**	**11**	**0**	**1.1**	**2.8**	**4.0**
SYNGENTA COKER 9553	**72.2**	**58.4**	**96**	**37**	**0.8**	**1**	**1**	**1.1**	**1.3**	**3.5**
PROGENY 125	**71.3**	**55.1**	**93**	**35**	**0.9**	**1**	**11**	**2.3**	**1.0**	**4.1**
AGS 2035	**69.9**	**58.2**	**92**	**39**	**0.7**	**13**	**0**	**1.1**	**0.5**	**4.6**
TERRAL LA841	**68.8**	**55.8**	**95**	**36**	**1.2**	**2**	**0**	**0.7**	**1.5**	**4.2**
DYNA-GRO OGLETHORPE	**67.9**	**55.9**	**94**	**34**	**1.7**	**4**	**0**	**1.9**	**3.0**	**3.8**
TERRAL LA821	**67.8**	**57.6**	**91**	**37**	**1.1**	**12**	**0**	**1.4**	**0.3**	**4.4**
PROGENY 185	**67.8**	**55.8**	**101**	**41**	**0.4**	**26**	**15**	**1.0**	**0.0**	**5.5**
AGS 2040	**65.0**	**58.0**	**90**	**35**	**0.7**	**9**	**0**	**2.3**	**0.8**	**3.8**
PROGENY 357	**60.3**	**51.1**	**106**	**36**	**1.8**	**4**	**18**	**0.8**	**0.0**	**5.0**
Mean	**74.3**	**56.4**	**99**	**37**	**0.8**	**4**	**5**	**1.2**	**0.6**	**4.4**
CV%	**11**	**2**	**1**	**5**	**145**	**97**	**180**	**69**	**139**	**13**
LSD (0.10)	**5.0**	**0.8**	**2.1**	**1.3**	**0.7**	**10.1**	**10**	**0.4**	**1.2**	**0.5**

Data from Alexandria, Bossier City, St. Joseph, and Winnsboro, LA for 2014, BC for 2013, and SJ, and WN for 2013 and 2012.

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

NS indicates non-significant differences among varieties.

Table 9. Wheat performance trial at Alexandria, LA for 2014.

Brand / variety	Grain Yield bu/a	Test Weight lbs/bu	Heading Day of yr	Lod Score 0-9	Leaf Rust 1 %	Leaf Rust %	Bacterial Streak 0-9	Pheno type 0-9
LA06146E-P04	91.3	Test	91	2.0	0.0	0	3.0	4.0
SYNGENTA HARRISON	**90.4**	weights	**98**	**0.0**	**0.0**	**82**	**0.3**	**3.5**
TERRAL LA754	**89.4**	discarded	**94**	**0.5**	**0.0**	**10**	**0.0**	**2.5**
DYNA-GRO 9171	**89.3**		**100**	**0.0**	**0.0**	**33**	**0.0**	**3.5**
ARX1332	89.2	Very	99	0.0	0.0	15	1.3	5.0
PIONEER 26R87	**88.8**	low	**93**	**0.0**	**0.0**	**5**	**1.3**	**4.5**
PIONEER 26R41	**88.7**	due to	**101**	**0.0**	**0.0**	**12**	**0.0**	**3.5**
TERRAL TV8525	**88.6**	excessive	**97**	**1.0**	**0.0**	**53**	**0.8**	**3.5**
DIXIE GLORY	**88.6**	rain	**98**	**0.0**	**0.3**	**5**	**0.5**	**3.0**
LA05130D-P5	88.0		94	1.5	0.0	25	0.0	3.5
ARX1325	87.7		101	0.0	0.0	47	0.3	4.0
ARMOR VANDAL	**87.7**		**98**	**0.0**	**0.0**	**3**	**1.0**	**4.0**
DELTA GROW 7500	**87.7**		**100**	**1.0**	**0.0**	**40**	**0.0**	**4.5**
PROGENY 125	**87.2**		**92**	**0.5**	**0.0**	**75**	**0.5**	**4.5**
AGS 2038	**87.2**		**97**	**1.5**	**0.0**	**0**	**0.5**	**4.5**
LA03200E-2	86.9		93	0.0	0.0	10	1.0	2.0
PIONEER 26R10	**86.8**		**101**	**2.0**	**0.0**	**83**	**0.0**	**4.0**
PROGENY 870	**86.1**		**97**	**0.5**	**0.0**	**37**	**0.0**	**3.5**
PIONEER 26R53	**86.1**		**101**	**0.0**	**0.0**	**52**	**0.5**	**3.5**
USG 3833	**85.6**		**101**	**0.0**	**0.0**	**5**	**0.3**	**3.5**
JAMESTOWN	**85.3**		**92**	**0.0**	**0.0**	**10**	**2.0**	**4.0**
DELTA GROW 7100	**85.2**		**101**	**0.0**	**0.0**	**16**	**0.5**	**3.5**
PGX 13-1	85.1		101	0.0	0.0	2	0.5	4.0
GA-041052-11E51	85.1		91	1.5	0.0		2.5	4.0
LA03200E-23	84.5		97	0.0	0.0	40	0.3	2.5
DELTA GROW 3200	**84.3**		**97**	**1.5**	**0.0**	**4**	**1.3**	**5.0**
USG 3120	**84.2**		**93**	**0.0**	**0.0**	**1**	**0.0**	**4.0**
LA06146E-P4	84.1		90	0.0	0.0		1.0	4.5
SYNGENTA SY CYPRESS	**83.9**		**92**	**0.0**	**0.0**	**15**	**0.8**	**3.5**
ARX1313	83.8		99	1.5	0.0	88	2.3	4.0
ARMOR HAVOC	**83.8**		**100**	**0.5**	**0.0**	**95**	**0.0**	**4.0**
TERRAL TV8535	**83.7**		**98**	**0.5**	**0.0**	**37**	**0.5**	**3.5**
LA05145D-10	83.6		94	0.5	0.0	0	1.0	4.0
ARMOR OCTANE	**83.5**		**101**	**0.0**	**0.0**	**2**	**0.8**	**4.0**
GA-04434-11E44	83.1		94	0.0	0.0	0	0.8	4.5
ARX1327	82.9		101	0.5	0.0	40	0.3	4.0
DIXIE DXEX13-3	82.7		101	0.0	0.0	43	1.5	5.0
GA-041293-11E54	81.5		92	0.0	0.0	0	0.5	3.0
DYNA-GRO BALDWIN	**81.4**		**99**	**0.0**	**1.3**	**0**	**0.0**	**4.5**
TERRAL TV8848	**81.2**		**101**	**0.5**	**0.0**	**87**	**0.3**	**4.0**
TERRAL TV8861	**81.1**		**101**	**0.0**	**0.0**	**63**	**0.8**	**4.0**
DELTA GROW 7200	**80.9**		**100**	**0.5**	**0.0**	**80**	**0.5**	**4.5**
AGS 2027	**80.8**		**93**	**4.5**	**0.0**	**0**	**2.0**	**4.5**
PIONEER 26R20	**80.8**		**101**	**1.5**	**0.0**	**47**	**0.0**	**4.0**
USG 3201	**80.8**		**99**	**0.5**	**0.0**	**25**	**0.3**	**4.5**
GA-041293-11LE37	80.2		94	3.0	0.0	7	0.0	3.5
AGS 2035	**80.1**		**92**	**0.5**	**0.0**	**0**	**0.0**	**4.5**
DIXIE MCALISTER	**79.7**		**100**	**0.0**	**0.0**	**70**	**0.3**	**5.0**
LA07128C-91	79.7		92	0.0	0.0		0.3	3.5
LA05145D-118	79.4		93	1.0	0.0		2.0	4.5

Table 9. Wheat performance trial at Alexandria, LA for 2014.

Brand / variety	Grain Yield bu/a	Test Weight lbs/bu	Heading Day of yr	Lod Score 0-9	Leaf Rust 1 %	Leaf Rust %	Bacterial Streak 0-9	Pheno type 0-9
SYNGENTA COKER 9553	**79.3**		**94**	**0.0**	**0.0**		**0.5**	**2.5**
AGS 2056	**79.1**		**101**	**1.5**	**0.0**	**37**	**0.3**	**4.0**
AGS 2057	**78.7**		**101**	**0.0**	**0.0**	**0**	**0.3**	**5.5**
L-BRAND-343	**78.0**		**94**	**2.0**	**0.0**	**0**	**2.5**	**5.0**
DYNA-GRO OGLETHORPE	**78.0**		**91**	**2.0**	**0.0**	**35**	**1.3**	**4.0**
TERRAL LA821	**76.8**		**91**	**0.0**	**0.0**		**0.8**	**4.0**
PIONEER XW13X	76.8		92	0.0	0.0	0	0.0	4.5
LA07040D-P01	76.0		97	0.0	0.0	0	0.3	4.5
GA04417-11E21	76.0		94	1.0	0.0	0	1.0	5.0
DELTA GROW 9700	**75.9**		**100**	**1.5**	**0.0**	**72**	**0.0**	**4.0**
LA08221C-23	75.7		93	1.0	0.0	0	0.0	4.5
USG 3404	**75.6**		**97**	**0.0**	**0.0**	**17**	**0.5**	**3.5**
DELTA GROW 2100	**75.6**		**99**	**3.0**	**0.5**	**78**	**0.3**	**6.0**
DIXIE XTREME	**75.0**		**101**	**1.5**	**0.0**	**85**	**0.0**	**4.0**
LA05032D-136	74.8		96	0.0	0.0	0	0.5	4.5
DELTA GROW 720X	74.6		101	0.5	0.0	53	1.0	3.5
USG 3024	**74.6**		**96**	**0.0**	**0.0**	**0**	**2.5**	**4.5**
AGS 2040	**74.0**		**92**	**0.0**	**0.0**		**0.3**	**3.5**
TERRAL LA841	**72.7**		**93**	**0.0**	**0.0**	**0**	**0.3**	**5.0**
AGS 2060	**72.4**		**93**	**0.5**	**0.0**	**0**	**3.0**	**4.0**
DIXIE KELSEY	**69.6**		**92**	**0.0**	**28.8**		**1.0**	**6.5**
PROGENY 185	**67.7**		**94**	**0.5**	**41.3**	**45**	**0.5**	**6.5**
PROGENY 357	**63.6**		**101**	**6.0**	**0.0**	**97**	**0.0**	**5.5**
Mean	**81.6**		**96.5**	**0.7**	**1.0**	**32.6**	**0.7**	**4.1**
CV %	**10**		**2**	**204**	**482**	**52**	**112**	**19**
LSD (0.10)	**9.4**		**2.9**	**2.3**	**5.6**	**27.6**	**0.9**	**1.3**

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

Test Weights are very low for this location due to heavy rainfall after maturity.

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

Leaf Rust 1 on 4-30-14 and Leaf Rust 2 on 5-8-14. Leaf rust developed very late and did not impact yield. A number of entries were too mature to rate on the second date, hence the missing data.

Phenotype is overall visual appearance on a 0-9 scale with 3 = excellent and 8 = very poor.

NS indicates non-significant differences among varieties

Table 10. Wheat performance trial at Bossier City, LA for 2014.

	Grain Yield			Test	Heading	Plant	Bacterial
	2014	rnk	2-YR	Wt	Day	Ht	Streak
Brand / variety		bu/a		lbs/bu	of yr	in	0-9
USG 3201	**84.8**	1	**97.6**	**59.9**	**110**	**32.7**	**0.0**
ARMOR VANDAL	**75.6**	29	**96.5**	**57.4**	**112**	**33.5**	**1.3**
DYNA-GRO 9171	**77.3**	21	**93.6**	**56.7**	**111**	**32.3**	**0.0**
TERRAL TV8848	**81.4**	8	**93.3**	**57.9**	**113**	**35.3**	**0.0**
TERRAL TV8861	**83.6**	4	**93.2**	**60.1**	**113**	**34.7**	**0.3**
PIONEER 26R53	**78.6**	14	**93.1**	**59.6**	**112**	**33.0**	**0.0**
PROGENY 870	**77.1**	22	**91.9**	**56.5**	**111**	**32.7**	**0.0**
PIONEER 26R41	**78.9**	13	**91.7**	**58.3**	**112**	**33.3**	**0.0**
DIXIE DXEX13-3	76.9	23	91.0	58.6	114	35.3	0.7
ARMOR OCTANE	**72.9**	37	**91.0**	**56.0**	**114**	**35.0**	**0.0**
AGS 2056	**74.8**	30	**90.8**	**56.9**	**111**	**32.2**	**0.7**
ARMOR HAVOC	**74.7**	31	**89.7**	**57.9**	**112**	**34.0**	**0.0**
DELTA GROW 7500	**76.3**	25	**89.3**	**57.2**	**112**	**32.8**	**0.3**
SYNGENTA HARRISON	**78.2**	16	**88.8**	**56.2**	**112**	**34.7**	**0.0**
PIONEER 26R10	**73.7**	34	**88.7**	**58.2**	**113**	**33.2**	**0.0**
PROGENY 185	**82.2**	6	**88.7**	**56.6**	**110**	**38.7**	**0.0**
PIONEER 26R20	**81.2**	11	**88.6**	**59.1**	**111**	**36.3**	**0.0**
TERRAL TV8535	**76.0**	28	**88.5**	**56.6**	**112**	**33.2**	**0.0**
DIXIE MCALISTER	**73.6**	35	**88.4**	**57.0**	**112**	**32.3**	**0.0**
SYNGENTA SY CYPRESS	**76.0**	27	**87.4**	**58.5**	**103**	**31.5**	**3.7**
DIXIE XTREME	**79.3**	12	**87.2**	**55.8**	**116**	**37.0**	**0.0**
AGS 2060	**72.7**	38	**85.5**	**60.4**	**108**	**37.8**	**1.0**
TERRAL LA754	**77.5**	19	**85.5**	**59.2**	**105**	**34.7**	**0.0**
PIONEER XW13X	72.6	40	85.3	59.9	104	35.3	0.0
USG 3833	**67.4**	58	**84.8**	**55.4**	**118**	**33.8**	**0.0**
TERRAL TV8525	**71.1**	45	**84.8**	**59.4**	**111**	**32.5**	**0.0**
DELTA GROW 9700	**71.6**	42	**84.7**	**55.4**	**116**	**36.7**	**0.0**
AGS 2038	**66.9**	59	**83.0**	**57.8**	**116**	**37.0**	**0.0**
DELTA GROW 7200	**65.6**	62	**82.5**	**58.2**	**112**	**33.7**	**0.3**
JAMESTOWN	**71.2**	43	**81.1**	**59.3**	**103**	**30.5**	**1.0**
AGS 2035	**69.5**	52	**81.0**	**60.2**	**104**	**34.3**	**0.0**
DYNA-GRO BALDWIN	**69.2**	54	**80.4**	**59.7**	**114**	**37.3**	**0.0**
PROGENY 357	**81.3**	10	**80.4**	**54.9**	**113**	**34.8**	**0.3**
TERRAL LA841	**71.2**	44	**80.1**	**56.6**	**105**	**33.7**	**0.0**
SYNGENTA COKER 9553	**63.0**	68	**79.8**	**59.8**	**107**	**33.0**	**0.0**
LA06146E-P04	73.9	33	78.8	58.0	104	36.2	2.0
LA03200E-23	70.1	48	78.4	60.6	104	32.8	0.7
L-BRAND-343	**61.1**	72	**77.7**	**59.9**	**107**	**33.0**	**4.0**
USG 3120	**64.5**	67	**76.1**	**60.3**	**103**	**34.2**	**0.3**
TERRAL LA821	**68.5**	57	**75.6**	**58.5**	**104**	**34.8**	**0.0**
PIONEER 26R87	**62.0**	71	**75.4**	**61.2**	**103**	**31.0**	**1.3**
LA03200E-2	62.6	69	74.4	60.6	105	32.0	0.7
DYNA-GRO OGLETHORPE	**72.6**	39	**74.3**	**58.3**	**103**	**30.7**	**0.0**
AGS 2040	**62.5**	70	**74.0**	**59.3**	**103**	**32.2**	**0.7**
AGS 2027	**64.9**	65	**73.6**	**56.4**	**105**	**32.0**	**1.0**
PROGENY 125	**64.8**	66	**68.6**	**56.2**	**104**	**31.7**	**0.3**
ARX1327	84.1	2		57.5	113	37.3	0.0
DELTA GROW 720X	83.8	3		58.1	112	35.5	0.0
ARX1313	83.1	5		56.6	111	35.3	0.7
USG 3404	**81.9**	7		**57.7**	**113**	**34.7**	**0.0**

Table 10. Wheat performance trial at Bossier City, LA for 2014.

	Grain Yield			Test	Heading	Plant	Bacterial
	2014	rnk	2-YR	Wt	Day	Ht	Streak
Brand / variety		bu/a		lbs/bu	of yr	in	0-9
GA04417-11E21	81.3	9		56.9	106	31.0	0.0
LA07128C-91	78.5	15		59.6	102	31.3	0.0
ARX1325	78.2	17		58.5	113	33.0	1.0
AGS 2057	**78.1**	18		**59.5**	**85**	**36.2**	**0.7**
DELTA GROW 3200	**77.3**	20		**58.8**	**111**	**31.3**	**1.0**
LA08221C-23	76.6	24		59.8	108	34.5	0.0
LA06146E-P4	76.1	26		61.6	101	33.8	1.7
PGX 13-1	74.3	32		54.9	117	33.3	0.0
DELTA GROW 7100	**73.4**	36		**57.4**	**113**	**35.3**	**0.0**
LA05145D-10	72.5	41		59.8	106	34.3	0.7
DELTA GROW 2100	**70.9**	46		**56.5**	**112**	**38.0**	**0.0**
GA-041293-11E54	70.6	47		56.9	106	32.7	0.3
LA05145D-118	70.1	49		62.0	104	34.0	1.0
GA-041052-11E51	69.7	50		58.3	104	31.3	3.3
GA-04434-11E44	69.5	51		58.3	113	32.7	0.0
LA07040D-P01	69.2	53		55.2	108	34.8	0.0
DIXIE KELSEY	**69.1**	55		**58.8**	**104**	**33.7**	**0.7**
LA05032D-136	68.6	56		59.2	112	34.0	0.0
GA-041293-11LE37	66.4	60		59.2	106	32.3	0.0
USG 3024	**66.3**	61		**59.5**	**106**	**31.7**	**1.7**
DIXIE GLORY	**65.3**	63		**55.6**	**118**	**32.7**	**0.0**
LA05130D-P5	65.1	64		64.2	108	31.3	0.0
ARX1332	58.5	73		59.0	113	28.7	1.0
Mean	**73.0**		**84.7**	**58.3**	**109.0**	**33.8**	**0.5**
CV%	**10**		**8**	**2.3**	**5.6**	**5.5**	**173**
LSD (0.10)	**10.2**		**10.4**	**1.8**	**8.3**	**2.5**	**1.1**

Data from Red River Research Station, Bossier City, LA. Blair Buckley, Bill Waltman, and Justin Eads. Disease notes by Boyd Padgett.

Rep 2 was dropped. Very little disease pressure and no lodging.

Cultural and Site: Planted Nov 19, 2013. 46-0-0 topdress on 2-24-14; 46-0-0 topdress on 3-7-14. Harmony Extra at 0.6 oz/acre on 3-7-14. Harvested 6-5-2014.

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

Table 11. Wheat performance trial at St. Joseph, LA for 2014.

Brand / variety	Grain Yield 2014	k	Grain Yield 2-YR	Test Wt	Head Day	Plant Ht	Lodging	Bacteria	Bird Damage	Septoria	FHB Score
	bu/a			lbs/bu	of yr	in	0-9	0-9	0-9	0-9	0-9
DYNA-GRO 9171	**85.1**	5	**82.5**	**53.0**	**105**	**34**	**1.0**	**3.0**	**0.0**	**1.5**	**1.0**
PIONEER 26R41	**87.5**	3	**82.5**	**54.4**	**108**	**37**	**1.0**	**1.0**	**0.0**	**0.5**	**0.5**
LA06146E-P04	82.5	12	82.5	55.5	101	38	2.8	6.0	0.0	1.5	0.0
USG 3201	**84.0**	8	**82.0**	**55.4**	**107**	**36**	**1.0**	**0.5**	**0.0**	**0.5**	**0.0**
TERRAL TV8861	**90.6**	1	**78.9**	**54.6**	**110**	**37**	**2.0**	**1.5**	**0.0**	**0.0**	**0.0**
ARMOR VANDAL	**78.8**	25	**78.2**	**55.0**	**106**	**36**	**1.5**	**2.5**	**1.0**	**1.0**	**0.5**
ARMOR OCTANE	**74.0**	45	**77.8**	**52.7**	**112**	**38**	**1.0**	**0.5**	**0.0**	**0.5**	**0.5**
USG 3833	**79.5**	20	**77.7**	**53.0**	**112**	**38**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**
PIONEER 26R20	**76.6**	37	**76.5**	**55.8**	**110**	**37**	**1.5**	**0.5**	**0.0**	**0.0**	**0.0**
AGS 2056	**77.5**	30	**76.4**	**53.0**	**106**	**34**	**1.0**	**3.0**	**0.0**	**0.0**	**0.0**
ARMOR HAVOC	**85.9**	4	**76.3**	**53.7**	**108**	**36**	**1.0**	**2.5**	**0.0**	**0.0**	**0.0**
DIXIE XTREME	**80.3**	17	**76.1**	**54.9**	**111**	**39**	**1.0**	**1.0**	**0.0**	**1.0**	**0.0**
PIONEER 26R53	**79.8**	19	**75.1**	**55.1**	**108**	**34**	**1.0**	**3.0**	**0.0**	**0.0**	**0.0**
SYNGENTA HARRISON	**82.3**	14	**75.1**	**53.2**	**107**	**36**	**1.0**	**2.0**	**0.0**	**0.0**	**0.0**
SYNGENTA COKER 9553	**80.9**	16	**74.2**	**55.1**	**101**	**38**	**1.0**	**1.5**	**0.5**	**2.5**	**2.5**
AGS 2038	**83.2**	11	**73.7**	**56.6**	**107**	**43**	**1.0**	**0.5**	**0.0**	**1.0**	**0.5**
TERRAL TV8535	**80.2**	18	**73.5**	**52.6**	**107**	**34**	**1.0**	**2.0**	**0.0**	**0.0**	**0.0**
PROGENY 870	**75.5**	40	**73.5**	**52.9**	**107**	**34**	**1.0**	**2.5**	**0.0**	**1.0**	**0.0**
AGS 2060	**77.2**	32	**73.2**	**57.5**	**103**	**41**	**1.0**	**7.0**	**0.0**	**1.0**	**1.5**
DYNA-GRO BALDWIN	**82.4**	13	**71.9**	**56.7**	**108**	**46**	**1.0**	**0.5**	**0.0**	**0.0**	**0.0**
TERRAL TV8525	**73.0**	51	**71.5**	**54.1**	**105**	**35**	**1.0**	**2.5**	**0.0**	**1.0**	**1.0**
DIXIE DXEX13-3	77.1	33	71.4	54.8	110	40	1.0	3.0	0.0	0.5	0.0
PIONEER XW13X	**76.7**	36	**70.9**	**56.0**	**101**	**38**	**1.0**	**1.5**	**2.5**	**0.5**	**0.5**
LA03200E-2	77.5	29	69.3	55.8	102	37	1.0	3.0	0.0	1.0	2.0
JAMESTOWN	**74.1**	44	**69.0**	**56.8**	**101**	**36**	**1.0**	**2.0**	**1.0**	**2.5**	**2.0**
DELTA GROW 7500	**74.0**	46	**68.9**	**52.7**	**106**	**36**	**1.0**	**2.5**	**0.0**	**0.0**	**0.0**
LA03200E-23	79.3	22	68.9	55.6	102	36	1.0	4.0	0.5	2.0	3.5
L-BRAND-343	**67.9**	64	**68.6**	**54.8**	**103**	**35**	**1.8**	**8.0**	**0.0**	**4.0**	**2.5**
PIONEER 26R10	**83.5**	10	**68.5**	**53.4**	**109**	**36**	**1.0**	**2.0**	**0.0**	**0.0**	**0.0**
DXEX14-1	72.6	53	67.6	53.4	112	39	1.0	1.0	0.0	0.0	0.0
DELTA GROW 7200	**73.1**	50	**66.7**	**53.2**	**108**	**37**	**1.0**	**0.5**	**0.0**	**0.5**	**0.0**
TERRAL LA754	**73.8**	47	**65.9**	**53.7**	**102**	**37**	**1.0**	**3.0**	**0.0**	**1.5**	**3.0**
PIONEER 26R87	**75.5**	39	**65.4**	**57.3**	**100**	**36**	**1.0**	**6.0**	**1.5**	**2.0**	**2.0**
TERRAL TV8848	**78.0**	27	**65.1**	**54.9**	**108**	**36**	**2.0**	**3.0**	**0.0**	**0.5**	**0.0**
SYNGENTA SY CYPRESS	**72.3**	54	**64.4**	**55.2**	**102**	**35**	**1.0**	**4.0**	**1.0**	**1.0**	**0.5**
PROGENY 125	**67.7**	67	**63.9**	**53.2**	**100**	**35**	**1.0**	**4.5**	**4.5**	**4.0**	**2.0**
TERRAL LA821	**78.4**	26	**63.8**	**55.6**	**100**	**36**	**1.0**	**3.5**	**0.0**	**1.5**	**0.5**
TERRAL LA841	**67.7**	66	**63.5**	**52.8**	**102**	**35**	**1.0**	**1.5**	**0.0**	**1.0**	**1.0**
AGS 2040	**69.8**	60	**62.1**	**55.2**	**100**	**35**	**1.0**	**5.5**	**3.5**	**1.5**	**1.5**
PROGENY 185	**69.6**	61	**62.1**	**54.7**	**108**	**39**	**1.0**	**2.0**	**1.5**	**1.5**	**0.0**
USG 3120	**79.3**	23	**61.9**	**55.6**	**101**	**40**	**1.0**	**3.0**	**0.5**	**2.5**	**2.5**
DELTA GROW 9700	**70.3**	59	**61.1**	**52.5**	**111**	**38**	**1.0**	**1.0**	**0.0**	**1.5**	**0.0**
AGS 2027	**64.9**	71	**60.2**	**54.5**	**102**	**34**	**4.0**	**3.0**	**1.0**	**2.5**	**2.0**
PROGENY 357	**67.9**	63	**56.4**	**49.9**	**110**	**34**	**1.0**	**2.5**	**0.0**	**0.5**	**0.0**
DYNA-GRO OGLETHORPE	**58.4**	73	**54.5**	**53.1**	**100**	**33**	**1.0**	**4.5**	**7.0**	**2.5**	**2.5**
AGS 2035	**67.4**	68	**54.2**	**55.6**	**102**	**38**	**1.0**	**2.5**	**0.0**	**0.5**	**0.5**
AGS 2057	**89.3**	2		**54.9**	**112**	**38**	**1.0**	**1.5**	**0.0**	**0.0**	**0.0**
DELTA GROW 720X	85.0	6		54.6	108	40	1.0	1.0	0.0	0.0	0.0
USG 3404	**84.4**	7		**54.4**	**110**	**37**	**1.0**	**0.5**	**0.0**	**0.0**	**0.0**
ARX1325	83.9	9		54.9	111	36	1.0	3.0	0.0	1.5	0.0

Table 11. Wheat performance trial at St. Joseph, LA for 2014.

Brand / variety	Grain Yield 2014	k	Grain Yield 2-YR	Test Wt	Head Day	Plant Ht	Lodging	Bacteria	Bird Damage	Septoria	FHB Score
	bu/a			lbs/bu	of yr	in	0-9	0-9	0-9	0-9	0-9
LA06146E-P4	81.1	15		55.8	100	35	1.0	5.5	0.0	0.0	0.0
DELTA GROW 3200	**79.5**	21		**54.3**	**107**	**33**	**1.0**	**3.5**	**0.0**	**2.0**	**0.0**
GA-04434-11E44	79.1	24		55.6	106	35	1.0	2.5	0.5	0.0	0.0
GA04417-11E21	77.7	28		52.2	102	35	2.0	3.0	0.0	2.0	2.0
LA07128C-91	77.2	31		55.0	100	36	1.8	3.5	0.0	3.0	3.0
DELTA GROW 7100	**76.8**	34		**53.4**	**108**	**37**	**1.0**	**1.5**	**0.5**	**1.0**	**0.0**
DIXIE KELSEY	**76.8**	35		**54.4**	**102**	**38**	**1.0**	**2.0**	**1.0**	**3.5**	**2.0**
DIXIE MCALISTER	**76.5**	38		**51.3**	**107**	**36**	**1.0**	**2.0**	**0.0**	**1.5**	**0.0**
ARX1313	75.3	41		52.1	105	36	1.0	2.0	0.0	1.0	1.0
LA05130D-P5	**74.7**	42		**55.7**	**104**	**34**	**1.0**	**3.0**	**0.0**	**1.0**	**0.5**
PGX 13-1	74.7	43		52.8	112	39	1.0	2.0	0.0	0.0	0.0
LA07040D-P01	**73.6**	48		**53.3**	**104**	**35**	**1.0**	**2.0**	**2.5**	**2.0**	**2.0**
ARX1332	73.5	49		53.9	106	32	2.0	4.5	0.0	0.5	0.0
DELTA GROW 2100	**72.8**	52		**54.7**	**108**	**40**	**3.3**	**3.5**	**0.0**	**0.0**	**0.0**
ARX1327	71.8	55		54.1	110	35	1.0	2.5	0.0	0.5	0.0
GA-041293-11LE37	**71.7**	56		**56.0**	**103**	**36**	**1.0**	**2.5**	**0.0**	**3.0**	**3.0**
GA-041293-11E54	**71.1**	57		**55.4**	**104**	**36**	**1.0**	**4.5**	**2.0**	**1.5**	**3.0**
LA05032D-136	**70.7**	58		**56.7**	**107**	**39**	**1.0**	**2.0**	**0.0**	**1.0**	**2.0**
USG 3024	**68.5**	62		**55.5**	**102**	**34**	**1.0**	**7.5**	**0.0**	**3.0**	**3.0**
LA05145D-118	67.8	65		56.2	102	38	1.0	3.0	2.0	3.0	1.5
LA08221C-23	66.8	69		54.1	104	35	1.0	2.5	0.0	1.0	0.0
GA-041052-11E51	65.6	70		55.5	101	33	2.0	5.5	1.5	0.5	2.0
LA05145D-10	60.6	72		56.5	102	42	1.0	2.5	0.5	1.0	1.0
Mean	**76.0**		**70.1**	**54.5**	**105.2**	**36.4**	**1.2**	**2.7**	**0.5**	**1.1**	**0.9**
CV	**12**		**13**	**1**	**1**	**4**	**70**	**49**	**211**	**101**	**128**
LSD	**10.7**		**14.1**	**1.2**	**2.0**	**2.7**	**1.0**	**2.2**	**1.8**	**1.9**	**1.8**

Data from Northeast Research Station, St. Joseph, **LA**. Rick Mascagni, Trey Price, Myra Purvis, and Kylie Miller.

Cultural and Site: Test weights are low due to heavy rainfall (~6" over 6 days) just prior to harvest. Very light disease pressure with leaf rust coming in late in grain fill period. Planted on November 13, 2013. Sprayed Jan 3, 2014 with .9 Gal/ac Harmony Extra. 4.75 oz/ac Osphrey. 1.5 Pints/ ac MSO.

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

Bacteria is Xanthomonas - bacterial streak.

FHB is a 0-9 rating of Fusarium headblight (scab) that occurred in the yield plots; 0 = no Fusarium symptoms observed.

NS indicates non-significant differences among varieties

Table 12. Wheat performance trial at Winnsboro, LA for 2014.

	Grain Yield			Test	Head	Plant	Leaf	Bact	BY	Pheno	FHB	FHB	FDK	DON
	2014	rnk	2-YR	Wt	Day	Ht	Rust	eria	DV	type	P	IND		A
Brand / variety		bu/a			of yr	in	%	0-9	0-9	0-9	0-9	%	%	ppm
ARMOR VANDAL	**87.6**	21	**87.2**	**55.2**	**106**	**36**	**0**	**5.0**	**0.0**	**3.5**	**0.0**	**5**	**30**	
PIONEER 26R53	**82.4**	50	**87.1**	**56.9**	**107**	**33**	**10**	**2.0**	**0.0**	**4.0**	**0.0**	**2**	**18**	
PIONEER 26R41	**90.3**	9	**86.8**	**56.4**	**108**	**37**	**0**	**1.0**	**0.0**	**5.3**	**0.5**	**1**	**25**	
USG 3833	**85.6**	34	**86.3**	**54.8**	**110**	**40**	**0**	**2.5**	**0.0**	**4.8**	**0.0**	**0**	**15**	
PIONEER 26R10	**88.4**	16	**86.0**	**54.9**	**107**	**37**	**35**	**2.0**	**1.0**	**4.0**	**0.0**	**3**	**28**	
AGS 2056	**92.3**	2	**85.9**	**55.2**	**106**	**37**	**10**	**1.5**	**0.0**	**4.8**	**0.0**	**4**	**38**	
ARMOR OCTANE	**83.7**	45	**85.9**	**54.4**	**110**	**38**	**0**	**3.0**	**0.0**	**5.3**	**0.0**	**0**	**30**	
TERRAL TV8848	**87.3**	25	**85.6**	**54.9**	**108**	**40**	**40**	**2.0**	**0.0**	**4.0**	**0.0**	**1**	**23**	
USG 3201	**88.6**	15	**85.6**	**57.9**	**107**	**38**	**0**	**2.0**	**0.5**	**5.0**	**0.0**	**0**	**33**	
DIXIE XTREME	**81.6**	53	**84.7**	**52.3**	**107**	**41**	**35**	**1.0**	**0.0**	**3.8**	**0.0**	**6**	**43**	
DELTA GROW 7200	**86.6**	28	**84.6**	**55.2**	**107**	**38**	**20**	**3.0**	**0.0**	**4.8**	**0.0**	**0**	**25**	
TERRAL TV8535	**90.5**	8	**84.0**	**55.3**	**107**	**35**	**5**	**1.5**	**2.0**	**4.3**	**0.0**	**2**	**18**	
DELTA GROW 7500	**88.7**	13	**83.6**	**55.3**	**106**	**36**	**5**	**2.0**	**0.0**	**4.3**	**0.0**	**1**	**20**	
DYNA-GRO 9171	**96.4**	1	**83.1**	**55.6**	**106**	**36**	**15**	**2.5**	**0.0**	**4.5**	**0.0**	**2**	**18**	
DELTA GROW 9700	**85.1**	38	**82.5**	**53.1**	**107**	**41**	**20**	**3.0**	**0.0**	**4.3**	**0.0**	**0**	**33**	
DIXIE DXEX13-3	87.7	19	82.4	56.3	108	42	10	3.0	0.0	4.3	0.0	5	30	
AGS 2038	87.7	20	82.3	57.7	106	41	0	1.5	0.0	4.3	0.0	7	38	
TERRAL TV8525	**86.0**	32	**82.2**	**56.9**	**106**	**37**	**10**	**3.0**	**1.0**	**4.5**	**0.0**	**0**	**13**	
DYNA-GRO OGLETHORPE	**87.5**	22	**80.8**	**54.9**	**104**	**36**	**0**	**3.5**	**0.0**	**4.3**	**3.5**	**44**	**65**	
PIONEER XW13X	83.0	47	80.4	56.9	105	41	0	2.5	0.0	4.3	0.0	23	15	
DIXIE MCALISTER	**86.1**	31	**79.9**	**54.2**	**107**	**34**	**30**	**1.0**	**0.0**	**5.0**	**0.0**	**1**	**28**	
AGS 2027	**79.9**	56	**79.6**	**53.7**	**105**	**37**	**0**	**4.0**	**0.0**	**4.3**	**3.0**	**32**	**35**	
SYNGENTA HARRISON	**79.8**	57	**79.2**	**52.5**	**107**	**37**	**25**	**1.5**	**0.0**	**4.5**	**0.0**	**5**	**28**	
PROGENY 125	**79.1**	58	**79.2**	**53.2**	**104**	**35**	**45**	**6.5**	**0.0**	**4.3**	**0.0**	**12**	**33**	
TERRAL TV8861	**82.5**	48	**79.1**	**55.0**	**109**	**35**	**30**	**1.0**	**0.0**	**4.8**	**0.0**	**1**	**13**	
ARMOR HAVOC	**86.2**	30	**79.0**	**56.3**	**106**	**37**	**50**	**1.5**	**0.0**	**4.0**	**0.5**	**0**	**18**	
USG 3120	**89.2**	11	**78.9**	**57.2**	**102**	**41**	**0**	**2.5**	**0.0**	**3.5**	**3.0**	**35**	**25**	
L-BRAND-343	83.6	46	78.4	57.0	105	37	0	7.0	0.0	4.0	2.0	43	53	
SYNGENTA COKER 9553	**77.9**	64	**77.6**	**56.1**	**105**	**38**	**0**	**3.5**	**0.0**	**3.8**	**0.0**	**11**	**38**	
AGS 2035	**84.8**	41	**76.8**	**56.7**	**104**	**41**	**0**	**3.5**	**0.0**	**4.5**	**0.5**	**27**	**40**	
DYNA-GRO BALDWIN	**88.1**	17	**76.5**	**58.3**	**107**	**43**	**0**	**1.0**	**0.0**	**4.5**	**0.0**	**1**	**20**	
PIONEER 26R87	**85.3**	36	**75.9**	**58.6**	**103**	**37**	**0**	**7.0**	**0.0**	**3.8**	**0.0**	**8**	**33**	
PROGENY 870	**82.2**	51	**75.7**	**54.2**	**106**	**35**	**15**	**1.5**	**0.0**	**4.5**	**0.0**	**0**	**35**	
TERRAL LA754	**85.1**	37	**75.2**	**55.7**	**105**	**39**	**5**	**3.0**	**0.5**	**3.8**	**0.0**	**39**	**43**	
PIONEER 26R20	**84.5**	42	**74.9**	**57.3**	**109**	**39**	**10**	**0.5**	**0.0**	**4.8**	**0.0**	**5**	**20**	
JAMESTOWN	**81.5**	54	**74.6**	**57.8**	**102**	**35**	**0**	**4.0**	**0.0**	**3.8**	**0.0**	**11**	**25**	
TERRAL LA821	**87.5**	23	**73.9**	**56.4**	**102**	**40**	**0**	**2.5**	**0.0**	**4.8**	**0.0**	**24**	**23**	
LA06146E-P04	84.2	44	73.7	56.8	104	40	0	6.0	0.0	3.8	0.0	37	43	
SYNGENTA SY CYPRESS	**77.7**	65	**73.0**	**57.6**	**104**	**38**	**5**	**4.5**	**0.0**	**4.5**	**0.0**	**13**	**33**	
LA03200E-23	78.0	63	72.4	56.6	105	38	0	5.5	1.5	4.8	0.0	36	38	
AGS 2060	**65.5**	73	**71.9**	**57.4**	**106**	**40**	**0**	**3.0**	**0.0**	**5.0**	**0.0**	**8**	**28**	
TERRAL LA841	**82.4**	49	**71.6**	**55.6**	**105**	**39**	**0**	**2.0**	**0.0**	**4.3**	**2.0**	**61**	**38**	
PROGENY 185	**84.8**	40	**71.6**	**55.8**	**105**	**43**	**20**	**2.5**	**0.0**	**4.8**	**0.0**	**8**	**38**	
AGS 2040	**78.3**	62	**68.9**	**56.8**	**102**	**36**	**0**	**5.5**	**0.0**	**3.5**	**0.0**	**26**	**28**	
LA03200E-2	71.7	72	68.6	55.9	105	36	5	4.5	1.5	4.3	0.0	27	43	
PROGENY 357	**72.6**	71	**66.6**	**51.7**	**109**	**38**	**45**	**1.5**	**0.0**	**4.5**	**0.0**	**0**	**23**	
GA-041052-11E51	92.2	3		56.8	105	37	0	5.5	0.0	4.3	3.0	38	35	
DELTA GROW 720X	91.8	4		55.6	109	36	10	1.5	0.5	5.3	0.0	0	30	
USG 3404	**91.5**	5		**56.0**	**108**	**39**	**15**	**2.5**	**0.0**	**3.3**	**0.0**	**0**	**18**	
ARX1325	91.5	6		56.7	108	36	10	5.0	0.0	4.3	0.0	2	30	

Table 12. Wheat performance trial at Winnsboro, LA for 2014.

	Grain Yield			Test	Head	Plant	Leaf	Bact	BY	Pheno	FHB	FHB	FDK	DON
	2014	rnk	2-YR	Wt	Day	Ht	Rust	eria	DV	type	P	IND		A
Brand / variety		bu/a			of yr	in	%	0-9	0-9	0-9	0-9	%	%	ppm
DIXIE GLORY	**90.7**	7		**55.1**	**109**	**41**	**0**	**1.5**	**0.0**	**4.0**	**0.0**	**0**	**20**	
ARX1332	89.4	10		56.4	106	33	0	2.5	0.0	4.8	0.0	1	30	
LA08221C-23	89.1	12		56.2	106	37	0	1.5	0.0	5.0	0.0	7	23	
GA04417-11E21	88.6	14		54.5	105	36	0	5.5	0.0	4.3	0.0	24	38	
LA07040D-P01	87.8	18		53.3	105	38	0	2.5	0.0	4.0	1.0	47	50	
GA-04434-11E44	87.5	24		57.8	105	36	0	5.5	0.0	4.0	0.0	23	25	
DELTA GROW 7100	**87.3**	26		**54.0**	**108**	**39**	**0**	**3.0**	**0.0**	**4.0**	**0.0**	**0**	**10**	
AGS 2057	**87.2**	27		**56.7**	**111**	**38**	**0**	**1.0**	**0.0**	**5.3**	**0.0**	**4**	**18**	
ARX1313	86.2	29		53.8	105	38	20	3.0	0.0	4.3	0.0	1	25	
GA-041293-11E54	85.6	33		54.9	105	38	0	1.5	0.0	4.0	2.5	58	65	
DELTA GROW 3200	**85.4**	35		**56.9**	**106**	**32**	**0**	**3.5**	**0.0**	**4.3**	**0.0**	**1**	**20**	
LA05032D-136	84.9	39		58.4	108	40	0	1.5	0.0	4.8	0.0	18	48	
ARX1327	84.3	43		54.6	109	37	25	0.0	1.5	4.3	0.0	1	33	
LA05130D-P5	81.9	52		57.4	105	37	15	2.0	0.5	4.3	1.0	11	33	
LA07128C-91	80.9	55		56.5	105	35	0	5.0	0.0	4.0	1.0	17	60	
LA05145D-10	79.0	59		58.0	105	43	0	5.0	0.0	4.0	0.5	7	30	
USG 3024	**78.8**	60		**56.8**	**105**	**34**	**0**	**7.0**	**0.0**	**4.0**	**0.5**	**28**	**40**	
GA-041293-11LE37	78.6	61		56.3	105	38	0	2.5	0.5	4.0	0.0	59	53	
PGX 13-1	76.7	66		54.2	109	38	0	3.0	0.0	4.8	0.0	0	30	
LA05145D-118	75.9	67		57.6	104	39	0	5.0	0.0	4.3	0.0	8	20	
DELTA GROW 2100	**75.0**	68		**55.7**	**108**	**41**	**0**	**2.5**	**0.0**	**5.0**	**0.0**	**0**	**13**	
DIXIE KELSEY	**75.0**	69		**55.5**	**103**	**38**	**0**	**3.0**	**0.0**	**4.0**	**1.5**	**65**	**35**	
LA06146E-P4	73.3	70		57.8	102	38	0	4.5	0.0	3.8	0.5	15	35	
Mean	**84.3**		**79.3**	**55.8**	**105.8**	**37.6**	**8.2**	**3.0**	**0.2**	**4.3**	**0.4**	**14**	**31**	
CV%	**9**		**9**	**2**	**1**	**4**	**124**	**39**	**359**	**12**	**189**	**43**	**34**	
LSD (0.10)	**9.24**		**NS**	**1.67**	**1.34**	**2.53**	**16.90**	**1.97**	**NS**	**0.88**	**1.14**	**9.95**	**17.04**	

Data from MaconRidge Research Station, Winnsboro, LA. Rick Mascagni, Trey Price, Myra Purvis, Tim Talbot, John Stapp, and Kylie Miller.

Cultural and Site: Test weights are low due to heavy rainfall (~6" over 6 days) just prior to harvest. Very light disease pressure with leaf rust coming in late in grain fill period. Planted Nov. 11, 2013. Sprayed Dec. 4, 2013 2.5 oz of Metribuzin. Fertilized on Feb. 17, 2014

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

Bacteria is Xanthomonas - bacterial streak.

BYDV is barley yellow dwarf virus.

Phenotype is visual appearance on a 0-9 scale with 3 = excellent general appearance and 8 = very poor general appearance. Average of several ratings by Steve Harrison.

FHB is a 0-9 rating of Fusarium headblight (scab) that occurred in the yield plots.

FHB Ind is FHB Index from misted, inoculated Fusarium nursery. The Index is % infected heads x % infected florets on those heads and is an estimated of total % kernels impacted by Fusarium in the inoculated nursery.

FDK is Fusarium Damage Kernels from misted, inoculated Fusarium nursery. Calculated by hand harvesting and threshing (with no air), then cleaning and visually comparing seed against standards of 0, 5%, 10% …..60% scabby seed.

DON and NIV are toxins from the PSS sample determined by lab analysis.

NS indicates non-significant differences among varieties

Table 13. Wheat performance trial across Louisiana for 2014.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lod ging 0-9	Leaf Rust %	Bact Streak	Fusarium Hdblight 0-9	Pheno type 0-9
DELTA GROW 3200	**83.9**	**58.6**	**101**	**31**	**0.7**	**8**	**2.0**	**1.2**	**4.7**
PIONEER 26R41	**83.9**	**57.8**	**103**	**32**	**0.4**	**1**	**0.4**	**1.8**	**4.1**
USG 3120	**83.7**	**59.5**	**93**	**36**	**0.4**	**0**	**1.1**	**3.7**	**3.8**
ARX1332	83.7	58.4	102	30	0.8	1	2.0	1.3	4.8
DYNA-GRO 9171	**83.2**	**57.1**	**102**	**32**	**0.4**	**11**	**1.0**	**1.5**	**4.2**
AGS 2038	**83.0**	**58.9**	**100**	**38**	**0.7**	**0**	**0.5**	**2.7**	**4.3**
TERRAL LA754	**82.8**	**58.5**	**95**	**35**	**0.5**	**2**	**1.1**	**3.2**	**3.4**
ARX1325	82.3	57.2	104	33	0.4	4	1.8	1.5	4.4
GA04417-11E21	82.3	57.9	98	32	1.0	0	1.9	3.0	4.1
GA-04434-11E44	82.0	58.5	98	32	0.4	0	1.7	2.5	4.1
LA05130D-P5	81.3	59.9	97	33	0.7	9	0.9	2.5	3.9
LA06146E-P04	80.9	59.0	92	35	1.5	0	3.8	1.2	4.0
JAMESTOWN	**80.8**	**59.8**	**93**	**32**	**0.4**	**0**	**2.1**	**1.5**	**4.0**
LA03200E-23	80.6	60.0	95	34	0.4	0	2.0	2.7	3.4
TERRAL LA821	**80.5**	**58.7**	**93**	**34**	**0.4**	**0**	**1.4**	**2.3**	**4.3**
DYNA-GRO BALDWIN	**80.1**	**59.0**	**102**	**38**	**0.4**	**1**	**0.3**	**2.5**	**4.4**
GA-041052-11E51	79.4	58.6	93	32	1.2	0	3.8	3.8	4.3
PIONEER XW13X	**79.2**	**59.8**	**95**	**36**	**0.4**	**0**	**0.7**	**2.8**	**4.5**
AGS 2035	**79.1**	**59.4**	**95**	**36**	**0.5**	**0**	**1.1**	**2.7**	**4.2**
USG 3404	**79.0**	**57.4**	**103**	**34**	**0.4**	**7**	**0.7**	**1.3**	**3.7**
DELTA GROW 720X	**78.8**	**57.8**	**103**	**35**	**0.5**	**16**	**0.8**	**1.5**	**4.5**
ARX1327	78.6	57.0	103	34	0.5	16	0.5	1.5	4.2
ARX1313	78.5	56.1	102	34	0.7	26	1.9	1.7	4.5
LA07128C-91	78.4	59.1	94	32	0.7	0	1.6	2.7	3.9
LA03200E-2	78.4	59.6	95	33	0.4	2	1.9	3.0	3.0
SYNGENTA SY CYPRESS	**78.4**	**58.9**	**94**	**33**	**0.4**	**2**	**2.8**	**1.3**	**4.3**
TERRAL TV8525	**78.2**	**57.7**	**101**	**33**	**0.6**	**10**	**1.3**	**1.8**	**4.1**
LA06146E-P4	**78.0**	**60.0**	**90**	**34**	**0.4**	**0**	**2.6**	**1.0**	**4.0**
PROGENY 870	**77.7**	**56.7**	**102**	**33**	**0.5**	**9**	**0.7**	**1.2**	**4.2**
LA07040D-P01	77.0	57.0	98	34	0.4	0	0.9	3.7	4.2
AGS 2057	**76.8**	**57.0**	**104**	**35**	**0.4**	**0**	**0.7**	**0.7**	**5.5**
SYNGENTA COKER 9553	**76.5**	**59.0**	**98**	**34**	**0.4**	**1**	**1.1**	**1.8**	**3.4**
GA-041293-11LE37	76.0	59.2	96	33	1.0	0	0.9	3.8	3.8
LA05145D-10	75.8	59.4	96	36	0.5	0	1.9	1.5	3.9
PROGENY 125	**75.8**	**56.4**	**96**	**33**	**0.5**	**25**	**2.3**	**2.0**	**4.8**
LA05145D-118	75.8	60.2	94	35	0.6	0	2.5	1.8	4.3
DELTA GROW 7100	**75.7**	**56.2**	**104**	**34**	**0.4**	**1**	**1.0**	**1.2**	**3.9**
GA-041293-11E54	75.7	57.7	96	33	0.4	0	1.4	4.5	3.7
LA05032D-136	75.3	59.3	99	36	0.4	0	0.8	3.5	4.5
DYNA-GRO OGLETHORPE	**74.8**	**57.6**	**94**	**32**	**1.0**	**0**	**1.9**	**3.7**	**4.3**
LA08221C-23	74.8	58.7	98	32	0.6	0	0.7	1.7	5.0
USG 3024	**74.7**	**59.1**	**97**	**31**	**0.4**	**0**	**4.0**	**3.8**	**4.3**
L-BRAND-343	**74.1**	**59.2**	**97**	**32**	**1.1**	**0**	**4.7**	**4.5**	**4.4**
AGS 2060	**74.0**	**59.9**	**96**	**37**	**0.7**	**0**	**3.2**	**1.7**	**4.4**
TERRAL LA841	**73.9**	**57.4**	**96**	**34**	**0.4**	**0**	**0.7**	**3.7**	**4.5**
AGS 2027	**72.3**	**57.1**	**96**	**32**	**2.5**	**0**	**2.3**	**4.0**	**4.5**
AGS 2040	**71.9**	**59.2**	**93**	**33**	**0.4**	**0**	**2.3**	**1.5**	**3.5**
DIXIE GLORY	**71.7**	**54.0**	**107**	**36**	**0.4**	**0**	**0.6**	**1.0**	**3.7**
PGX 13-1	69.6	53.2	107	35	0.4	0	1.1	1.0	4.4
DELTA GROW 2100	**65.5**	**56.1**	**105**	**37**	**1.9**	**2**	**1.2**	**0.8**	**5.5**

Table 13. Wheat performance trial across Louisiana for 2014.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lodging 0-9	Leaf Rust %	Bact Streak	Fusarium Hdblight 0-9	Pheno type 0-9
Mean	**77.9**	**58.2**	**98.1**	**33.8**	**0.6**	**3.1**	**1.6**	**2.3**	**4.2**
CV	**10**	**2**	**3**	**4**	**130**	**178**	**62**	**45**	**14**
LSD (0.10)	**6.9**	**6.9**	**2.6**	**1.2**	**0.7**	**13.0**	**0.0**	**1.6**	**0.7**

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

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

FusHblight is a 0-9 rating of Fusarium Headblight from misted, inoculated headrow nurseries.

FHBRelMat is relative heading date (0 = very early and 9 = very late) of the FHB headrows nursery. Very late heading entires (>7 probaly escaped FHB and should not be considered as resistant). The headrow nursery was planted about a month later than the yield plots so heading date and RelMat are somewhat different.

Table 14. Wheat performance trial across Louisiana for two years. 2013 and 2014.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lodging 0-9	Leaf Rust %	Bact Streak 0-9	Fusarium Hdblight 0-9	Pheno type 0-9
AGS 2038	**83.9**	**58.7**	**96**	**40**	**0.6**	**0**	**0.5**	**2.7**	**3.9**
LA06146E-P04	82.8	58.5	87	36	1.0	0	3.8	1.2	3.6
PIONEER 26R41	**82.2**	**57.4**	**104**	**34**	**0.7**	**3**	**0.4**	**1.8**	**4.8**
TERRAL LA754	**82.0**	**58.1**	**92**	**36**	**0.4**	**1**	**1.1**	**3.2**	**3.7**
PIONEER XW13X	81.1	59.6	91	37	0.2	0	0.7	2.8	3.8
USG 3120	**79.8**	**58.7**	**89**	**37**	**0.5**	**0**	**1.1**	**3.7**	**4.0**
DYNA-GRO BALDWIN	**79.2**	**59.0**	**99**	**40**	**0.5**	**0**	**0.3**	**2.5**	**4.2**
SYNGENTA SY CYPRESS	**79.1**	**58.2**	**89**	**33**	**0.4**	**1**	**2.8**	**1.3**	**4.5**
JAMESTOWN	**79.1**	**59.0**	**90**	**33**	**0.2**	**1**	**2.1**	**1.5**	**3.5**
TERRAL LA821	**79.0**	**58.3**	**90**	**36**	**0.6**	**0**	**1.4**	**2.3**	**4.1**
LA03200E-23	78.9	59.4	92	35	0.4	1	2.0	2.7	3.5
LA03200E-2	78.9	58.9	92	34	0.3	2	1.9	3.0	3.1
DYNA-GRO 9171	**78.9**	**55.8**	**105**	**34**	**0.2**	**6**	**1.0**	**1.5**	**5.3**
L-BRAND-343	**78.0**	**59.0**	**96**	**33**	**0.7**	**0**	**4.7**	**4.5**	**4.1**
AGS 2035	**77.8**	**58.8**	**91**	**38**	**0.3**	**0**	**1.1**	**2.7**	**4.3**
AGS 2060	**77.4**	**59.2**	**90**	**37**	**0.5**	**0**	**3.2**	**1.7**	**4.0**
SYNGENTA COKER 9553	**76.0**	**59.1**	**96**	**36**	**0.4**	**4**	**1.1**	**1.8**	**3.9**
PROGENY 870	**75.7**	**55.6**	**104**	**34**	**0.3**	**5**	**0.7**	**1.2**	**5.2**
TERRAL LA841	**75.6**	**56.9**	**93**	**35**	**0.8**	**0**	**0.7**	**3.7**	**3.9**
TERRAL TV8525	**75.6**	**56.9**	**102**	**34**	**0.7**	**10**	**1.3**	**1.8**	**5.0**
PROGENY 125	**74.8**	**56.3**	**94**	**34**	**0.3**	**14**	**2.3**	**2.0**	**4.8**
AGS 2040	**74.8**	**58.6**	**89**	**34**	**0.3**	**0**	**2.3**	**1.5**	**3.6**
AGS 2027	**74.6**	**57.3**	**96**	**34**	**2.2**	**0**	**2.3**	**4.0**	**4.3**
DYNA-GRO OGLETHORPE	**74.1**	**57.1**	**93**	**33**	**0.9**	**1**	**1.9**	**3.7**	**4.1**
Mean	**78.3**	**58.1**	**94.1**	**35.3**	**0.6**	**2.0**	**1.7**	**2.4**	**4.1**
CV	**10**	**1**	**2**	**4**	**1**	**219**	**56**	**43**	**12**
LSD (0.10)	**5.3**	**0.7**	**2.1**	**0.9**	**0.6**	**4.6**	**0.2**	**1.8**	**0.7**

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

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

FusHblight is a 0-9 rating of Fusarium Headblight from misted, inoculated headrow nurseries.

FHBRelMat is relative heading date (0 = very early and 9 = very late) of the FHB headrows nursery. Very late heading entires (>7 probaly escaped FHB and should not be considered as resistant). The headrow nursery was planted about a month later than the yield plots so heading date and RelMat are somewhat different.

Table 15. Wheat performance trial across Louisiana for three years. 2012, 2013 and 2014.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Ht in	Lodging 0-9	Leaf Rust %	Bact Streak	Fusarium Hdblight 0-9	Pheno type 0-9
AGS 2038	**82.8**	**58.5**	**93**	**40**	**0.8**	**0**	**0.5**	**2.7**	**3.8**
TERRAL LA754	**81.0**	**57.8**	**90**	**37**	**0.6**	**0**	**1.1**	**3.2**	**3.6**
PIONEER 26R41	**79.5**	**57.3**	**102**	**34**	**0.5**	**3**	**0.4**	**1.8**	**5.0**
USG 3120	**79.3**	**58.4**	**86**	**38**	**0.7**	**0**	**1.1**	**3.7**	**3.9**
DYNA-GRO BALDWIN	**78.4**	**59.0**	**96**	**40**	**0.4**	**0**	**0.3**	**2.5**	**4.2**
TERRAL LA821	**77.8**	**58.0**	**87**	**36**	**1.2**	**0**	**1.4**	**2.3**	**3.9**
JAMESTOWN	**77.7**	**58.7**	**88**	**33**	**0.4**	**0**	**2.1**	**1.5**	**3.5**
AGS 2035	**77.3**	**58.5**	**88**	**38**	**0.5**	**0**	**1.1**	**2.7**	**4.1**
AGS 2060	**76.9**	**58.9**	**87**	**38**	**0.9**	**0**	**3.2**	**1.7**	**3.9**
TERRAL LA841	**75.7**	**56.5**	**91**	**35**	**1.4**	**0**	**0.7**	**3.7**	**3.7**
DYNA-GRO 9171	**74.6**	**55.3**	**104**	**34**	**0.3**	**6**	**1.0**	**1.5**	**5.5**
AGS 2040	**74.0**	**58.3**	**86**	**35**	**0.6**	**0**	**2.3**	**1.5**	**3.7**
PROGENY 125	**73.5**	**55.9**	**92**	**35**	**0.7**	**14**	**2.3**	**2.0**	**4.8**
PROGENY 870	**73.1**	**55.1**	**104**	**34**	**0.2**	**5**	**0.7**	**1.2**	**5.4**
SYNGENTA COKER 9553	**72.8**	**58.9**	**94**	**36**	**0.8**	**5**	**1.1**	**1.8**	**4.1**
DYNA-GRO OGLETHORPE	**72.6**	**56.6**	**91**	**34**	**1.3**	**1**	**1.9**	**3.7**	**4.0**
TERRAL TV8525	**71.4**	**56.6**	**101**	**35**	**0.8**	**16**	**1.3**	**1.8**	**5.3**
Mean	**76.4**	**57.6**	**92.9**	**35.8**	**0.7**	**3.0**	**1.3**	**2.3**	**4.2**
CV	**10**	**1**	**2**	**4**	**134**	**193**	**6**	**42**	**10**
LSD (0.10)	**5.1**	**0.7**	**2.1**	**0.9**	**0.6**	**5.1**	**1.1**	**NS**	**0.6**

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

FusHblight is a 0-9 rating of Fusarium headblight from misted, inoculated headrow nurseries.

FHBRelMat is relative heading date (0 = very early and 9 = very late) of the FHB headrows nursery. Very late heading entires (>7 probably escaped FHB and should not be considered as resistant). The headrow nursery was planted about a month later than the yield plots so heading date and RelMat are somewhat different.

Table 16. Wheat metribuzin screening trial at Alexandria.

		Plant Injury (0-10)				Grain Yield			
	Metribuzin					Variety	Sencor		Head
	Tolerance	Average	Days after Treatment			Trial	Trial	DIFF	Day
Brand / variety			**13**	**27**	**34**	**bu/a**	**bu/a**	**bu/a**	**of yr**
AGS 2035	Good	**1.3**	1.0	2.0	1.0	80.1	86.5	-6.4	92
ARMOR HAVOC	Good	**1.4**	2.0	1.7	0.7	83.8	73.7	10.0	100
ARMOR OCTANE	Good	**1.6**	2.3	1.3	1.0	83.5	82.3	1.1	101
LA03200E-2	Good	**1.6**	1.7	1.7	1.3	86.9	80.6	6.3	93
L-BRAND-343	Good	**0.9**	1.3	0.7	0.7	78.0	66.8	11.2	94
PIONEER 26R10	Good	**1.4**	1.3	1.3	1.7	86.8	76.5	10.3	101
PIONEER 26R41	Good	**1.0**	1.7	1.0	0.3	88.7	77.0	11.7	101
TERRAL TV8861	Good	**1.3**	2.0	1.3	0.7	81.1	87.3	-6.2	101
AGS 2027	Fair	**2.8**	3.0	3.7	1.7	80.8	83.0	-2.2	93
AGS 2040	Fair	**2.2**	2.7	2.3	1.7	74.0	91.0	-17.0	92
ARMOR VANDAL	Fair	**2.6**	2.3	3.3	2.0	87.7	108.5	-20.7	98
DELTA GROW 7200	Fair	**2.8**	1.7	4.0	2.7	80.9	92.8	-11.9	100
DELTA GROW 720X	Fair	**2.0**	2.7	2.3	1.0	74.6	88.9	-14.3	101
DYNA-GRO 9171	Fair	**2.3**	3.0	2.0	2.0	89.3	72.2	17.1	100
DYNA-GRO BALDWIN	Fair	**1.8**	1.7	1.7	2.0	81.4	109.1	-27.6	99
LA05145D-118	Fair	**2.9**	3.0	3.0	2.7	79.4	91.5	-12.1	93
PIONEER 26R20	Fair	**2.1**	2.7	2.7	1.0	80.8	74.8	6.0	101
PIONEER 26R53	Fair	**1.9**	1.0	2.3	2.3	86.1	69.8	16.2	101
PIONEER 26R87	Fair	**2.3**	2.0	2.3	2.7	88.8	86.3	2.6	93
SYNGENTA COKER 9553	Fair	**1.8**	1.7	2.3	1.3	79.3	87.5	-8.3	94
SYNGENTA HARRISON	Fair	**2.3**	2.3	2.7	2.0	90.4	89.5	0.8	98
SYNGENTA SY CYPRESS	Fair	**3.1**	2.0	3.3	4.0	83.9	76.3	7.6	92
TERRAL LA754	Fair	**2.4**	2.3	3.0	2.0	89.4	91.3	-2.0	94
TERRAL TV8525	Fair	**2.8**	3.0	2.7	2.7	88.6	103.8	-15.2	97
TERRAL TV8535	Fair	**2.6**	3.3	3.0	1.3	83.7	83.8	-0.2	98
TERRAL TV8848	Fair	**2.0**	2.3	2.3	1.3	81.2	78.5	2.7	101
USG 3201	Fair	**1.9**	1.7	2.3	1.7	80.8	87.8	-7.1	99
USG 3833	Fair	**1.9**	2.3	2.3	1.0	85.6	90.0	-4.4	101
AGS 2038	Poor	**3.8**	3.3	4.3	3.7	87.2	81.1	6.1	97
AGS 2057	Poor	**4.7**	3.7	5.3	5.0	78.7	91.4	-12.7	101
AGS 2060	Poor	**6.1**	4.3	7.0	7.0	72.4	56.4	15.9	93
DELTA GROW 7500	Poor	**3.7**	3.7	4.3	3.0	87.7	84.5	3.2	100
DYNA-GRO OGLETHORPE	Poor	**3.7**	3.3	4.7	3.0	78.0	98.9	-20.9	91
JAMESTOWN	Poor	**4.1**	2.0	6.0	4.3	85.3	75.2	10.0	92
LA05032D-136	Poor	**4.8**	3.7	6.0	4.7	74.8	85.0	-10.3	96
Mean		**2.5**	**2.4**	**2.9**	**2.2**	**82.8**	**84.6**	**-1.7**	**96.5**
CV %		**31**	**31**	**37**	**54**	**10**	**8**		**2**
LSD (0.10)		**1.1**	**1.0**	**1.5**	**1.6**	**9.4**	**9.8**		**2.9**

Variety Trial data is yield from the non-sprayed wheat variety trial in an adjacent field.

Plant Inury: Relative injury from 0 = none to 10 = severe.

Sprayed with 10 oz/acre of sencor on Nov 29.

Table 17. Oat performance across Louisiana for 2014.

Brand / variety	Grain Yield	Test Weight	Seed Quality	Growth Habit	Leaf-iness	Head Day	Plant Ht	Lodging Score	Pheno type
	bu/a	lbs/bu	0-9	in	0-9	of yr	in	0-9	0-9
HORIZON 270	**141.7**	**33.3**	**4.3**	**4.3**	**5.0**	**105**	**36**	**3.3**	**4.2**
LA02065SBSBSBSB-88	139.5	33.0	4.3	5.0	4.4	108	41	1.7	5.0
HORIZON 201	**137.2**	**32.8**	**4.3**	**4.0**	**3.4**	**104**	**44**	**7.3**	**4.5**
HORIZON 306	**137.0**	**35.2**	**5.0**	**4.0**	**3.4**	**108**	**41**	**3.7**	**3.6**
LA99016	**133.0**	**33.8**	**4.0**	**4.3**	**3.9**	**106**	**43**	**4.7**	**4.3**
TX09CS1112	132.8	29.9	5.0	4.7	5.4	104	33	2.7	4.5
LA07048SBSB-28	128.3	32.9	4.7	4.7	4.6	107	43	3.0	5.0
FL0720-R6	128.2	31.7	3.0	3.0	3.2	110	45	8.0	3.8
TX09CS1029	128.2	32.6	4.0	4.0	4.5	105	36	4.3	4.4
TX07CS2140	122.1	32.1	5.3	5.0	5.1	108	36	6.0	4.2
TX07CS2257	118.1	32.6	4.3	4.0	5.2	102	39	6.3	4.6
FL0720-R5	117.9	33.3	3.0	3.0	3.3	108	45	7.0	4.5
LA07048SBSB-19	115.9	33.7	5.3	3.7	4.0	105	45	5.0	4.6
TX07CS1948	115.5	33.9	4.3	5.7	4.8	102	37	5.7	3.6
LA07048SBSB-39	112.3	33.8	4.0	4.0	4.4	105	41	1.3	5.1
LA07048SBSB-5	112.2	32.5	4.7	4.3	4.7	106	45	1.7	4.7
BROOKS	**106.8**	**31.7**	**4.3**	**4.0**	**4.3**	**108**	**43**	**7.7**	**4.5**
REWG0913	**105.7**	**34.5**	**3.3**	**5.0**	**4.7**	**108**	**39**	**7.3**	**5.1**
LA06046-N2-Ab3	102.8	31.5	3.3	3.3	5.3	101	38	1.0	4.2
LA06046-N2-Ab2	102.8	31.6	4.0	3.3	5.7	100	36	4.0	4.5
LA07007SBSB-68	99.5	33.6	5.7	3.7	4.6	100	39	8.3	4.5
FL05067-L1	94.4	33.8	3.7	2.7	5.4	97	47	6.0	4.9
FL0772-R3	94.2	33.4	5.7	3.7	4.5	108	41	4.3	4.7
FL03254-L1	85.3	34.9	4.3	3.3	5.9	104	42	4.3	4.9
Mean	**116.6**	**33.0**	**4.3**	**4.0**	**4.6**	**104.9**	**40.6**	**4.8**	**4.5**
CV	**12**	**4**	**14**	**13**	**11**	**2**	**7**	**35**	**11**
LSD (0.10)	**18.9**	**1.9**	**1.0**	**0.9**	**0.7**	**2.9**	**2.4**	**2.8**	**0.8**

Data from Baton Rouge, Bossier City, and Winnsboro.

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

Lodging: 0 = none, 9 = severe

Growth Habit: 0-9 where 3 is very early, springlike and 8 is very late, flat, winter.

Leafy Score: 0-9, 3= very leafy, 8 = not much leaf biomass.

Phenotype: visual appearance, 3 = excellent and 7 = poor.

Table 18. Oat variety trial across Louisiana for two years, 2013 and 2014.

Brand / variety	Grain Yield	Test Weight	Seed Quality	Growth Habit	Leaf-iness	Head Day	Plant Ht	Lodging Score	Crown Rust	Pheno type
	bu/a	lbs/bu	0-9	in	0-9	of yr	in	0-9	%	0-9
HORIZON 201	**109.4**	**32.0**	**4.3**	**4.0**	**3.4**	**102**	**44**	**4.2**	**0.0**	**3.6**
LA99016	**109.2**	**32.5**	**4.0**	**4.3**	**3.9**	**104**	**43**	**3.9**	**0.0**	**3.2**
HORIZON 306	**103.6**	**33.2**	**5.0**	**4.0**	**3.4**	**106**	**41**	**2.7**	**0.0**	**2.9**
TX09CS1112	101.2	29.5	5.0	4.7	5.4	103	33	1.3	0.0	5.0
TX07CS1948	94.3	32.6	4.3	5.7	4.8	101	37	4.9	0.0	3.4
HORIZON 270	**92.2**	**31.6**	**4.3**	**4.3**	**5.0**	**105**	**36**	**2.1**	**0.0**	**3.4**
LA06046-N2-Ab2	90.8	30.8	4.0	3.3	5.7	97	36	4.1	0.0	3.6
LA07007SBSB-68	84.3	32.1	5.7	3.7	4.6	99	39	8.4	0.0	4.3
BROOKS	**75.5**	**30.0**	**4.3**	**4.0**	**4.3**	**105**	**43**	**6.2**	**45.0**	**4.2**
Mean	**95.5**	**31.6**	**4.5**	**4.2**	**4.5**	**102.2**	**39.1**	**4.2**	**5.0**	**3.8**
CV	**15**	**5**	**13**	**12**	**12**	**2**	**6**	**43**	**141**	**18**
LSD (0.10)	**19.5**	**1.6**	**1.0**	**0.9**	**0.8**	**1.9**	**2.8**	**2.0**	**13.1**	**0.9**

Data from Baton Rouge, Bossier City, and Winnsboro for 2014 and BR and WN for 2013.

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

Lodging: 0 = none, 9 = severe

Growth Habit: 0-9 where 3 is very early, springlike and 8 is very late, flat, winter.

Leafy Score: 0-9, 3= very leafy, 8 = not much leaf biomass.

Phenotype: visual appearance, 3 = excellent and 7 = poor.

Table 19. Oat performance at Baton Rouge, LA in 2014.

Brand / variety	Grain Yield	Test Weight	Seed Quality	Leaf iness	Canopy Density	Head Day	Plant Ht	Stem Rust	Pheno type
	bu/a	lbs/bu	0-9	0-9	0-9	of yr	in	0-9	0-9
Horizon 201	**170.5**	**32.6**	**4.3**	**4.3**	**4.0**	**97.3**	**47.5**	**2.0**	**5.3**
FL0720-R6	159.5	29.5	3.0	3.7	4.0	104.0	47.0	1.0	4.0
LA99016	**158.5**	**34.5**	**4.0**	**5.0**	**5.0**	**99.7**	**45.0**	**1.0**	**5.0**
LA02065SBSBSBSB-88	155.7	32.1	4.3	4.7	5.0	101.3	44.5	0.0	5.7
TX09CS1112	154.1	29.2	5.0	5.7	5.3	98.0	31.5	0.0	4.5
HORIZON 306	**153.6**	**33.3**	**4.3**	**3.7**	**4.3**	**101.3**	**40.5**	**2.0**	**4.0**
HORIZON 270	**152.6**	**32.5**	**4.3**	**5.7**	**5.3**	**100.7**	**39.0**	**2.0**	**4.3**
TX07CS1948	149.7	34.3	4.3	5.7	5.0	98.7	38.0	1.0	3.5
TX09CS1029	149.3	32.2	4.0	5.0	5.0	99.7	39.0	1.0	4.7
LA07048SBSB-19	148.8	33.6	5.3	4.7	4.3	97.3	48.5	0.0	4.8
LA07048SBSB-28	147.9	32.3	4.7	5.7	5.0	99.0	47.5	1.0	5.8
LA07007SBSB-68	143.5	34.7	5.7	5.3	5.3	95.0	39.5	0.0	4.5
LA07048SBSB-5	141.0	33.0	4.7	5.3	5.3	99.3	46.5	2.0	5.0
TX07CS2140	136.4	31.4	5.3	5.7	5.7	100.3	37.0	2.0	4.8
LA06046-N2-Ab2	134.0	32.2	4.0	6.0	5.7	96.3	37.0	1.0	4.0
BROOKS	**133.3**	**29.3**	**4.3**	**5.0**	**5.0**	**103.3**	**45.5**	**1.0**	**5.0**
TX07CS2257	133.3	32.7	4.3	6.3	6.3	97.7	38.0	2.0	5.2
FL0720-R5	131.7	30.2	3.0	4.0	4.3	102.0	46.5	1.0	5.2
LA06046-N2-Ab3	128.9	31.4	3.3	6.0	5.7	96.7	38.0	0.0	4.2
LA07048SBSB-39	126.9	33.4	4.0	4.7	5.0	96.7	42.5	0.0	5.7
FL05067-L1	117.0	33.8	3.7	6.0	6.0	93.3	47.5	1.0	5.3
REWG0913	**113.5**	**34.4**	**3.3**	**5.0**	**5.0**	**105.0**	**41.5**	**2.0**	**5.2**
FL0772-R3	112.2	34.3	5.7	4.7	5.3	99.7	44.5	1.0	4.8
FL03254-L1	107.6	34.6	4.3	6.3	5.7	99.0	43.0	2.0	4.8
Mean	**139.8**	**32.5**	**4.3**	**5.2**	**5.1**	**99.2**	**42.3**	**1.1**	**4.8**
CV	**10**	**3**	**14**	**11**	**13**	**2**	**3**		**14**
LSD	**23.4**	**1.9**	**1.0**	**1.0**	**1.1**	**2.8**	**2.9**		**1.1**

Data from Central Research Stations, Baton Rouge, LA.

Cultural and Site: Planted: 11-16-2013. 70 ft-sq plots. 2 reps. 80-0-0 topdress N. Low disease pressure. Yields are a little variable due to a wet winter and some waterlogging on lower end of test.

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

Lodging: 0 = none, 9 = severe

Leafy Score: 0-9, 3= very leafy, 8 = not much leaf biomass.

Canopy Density: 0-9, 3= almost complete ground coverage, 8 = easily seed open spaces between rows.

Phenotype: visual appearance, 3 = excellent and 7 = poor.

Table 20. Oat performance at Bossier City, LA in 2014.

Brand / variety	Grain* Yield	Test Weight	Head Day	Plant Ht
	bu/a	lbs/bu	of yr	in
LA02065SBSBSBSB-88	109.4	32.1	115	35
FL0720-R6	105.1	32.1	118	39
FL0720-R5	100.4	35.3	117	40
Horizon 201	**99.3**	**31.1**	**109**	**37**
HORIZON 270	99.3	32.3	110	31
TX07CS2140	98.6	31.2	117	32
TX07CS2257	**96.6**	**30.2**	**106**	**37**
REWG0913	93.0	31.0	114	34
LA99016	**92.9**	**30.8**	**112**	**38**
TX09CS1029	91.1	30.9	111	31
HORIZON 306	**91.1**	**34.2**	**117**	**38**
LA07048SBSB-28	**90.9**	**31.8**	**116**	**36**
BROOKS	**78.8**	**34.0**	**114**	**38**
LA07048SBSB-19	77.0	32.6	114	38
TX09CS1112	76.4	28.9	112	31
TX07CS1948	71.4	32.0	105	32
FL0772-R3	69.2	30.5	117	36
LA07048SBSB-39	68.7	32.4	115	37
LA07048SBSB-5	63.8	30.4	113	39
LA07007SBSB-68	58.4	30.9	106	33
LA06046-N2-Ab2	53.4	28.5	105	32
LA06046-N2-Ab3	51.7	30.4	108	33
FL03254-L1	49.0	32.9	112	37
FL05067-L1	44.5	30.2	101	43
Mean	**80.0**	**31.5**	**111.8**	**35.7**
CV%	**16**	**5**	**2**	**10**
LSD (0.10)	**21.4**	**2.7**	**3.9**	**5.8**

Data from Red River Research Station, Bossier City, LA. Blair Buckley, Bill Waltman, and Justin Eads.

*** Significant lodging occurred** due to strong storms after maturity. Lodging notes were taken but there was minimal lodging at the time, prior to the storms. Wheat was harvested on June 5, before the storms but oats could not be harvested prior to the storms.

Cultural and Site: Planted Nov. 19, 2013. Topdressed with 85 lb/A 46-0-0 on 2-24-14 and 3-7-14. Harmony Extra at 0.6 oz/acre on 3-7-14. Harvested 6-16-14.

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

Table 21. Oat performance at Winnsboro, LA in 2014.

Brand / variety	Grain Yield	Test Weight	Head Day	Plant Ht	Lodging Score	Growth Habit	Freeze Damage	Leafy Score	Pheno type	Bird Damage
	bu/a	lbs/bu	of yr	in	0-9	0-9	0-9	0-9	0-9	0-9
TX09CS1112	168.0	31.6	101	38	2.7	4.7	1.7	5.2	4.6	2.0
HORIZON 270	**167.7**	**34.9**	**104**	**42**	**3.3**	**4.3**	**1.3**	**4.3**	**4.0**	**1.7**
HORIZON 306	**167.0**	**37.7**	**105**	**46**	**3.7**	**4.0**	**1.7**	**3.1**	**3.2**	**1.7**
LA02065SBSBSBSB-88	153.3	34.9	105	46	1.7	5.0	1.0	4.2	4.3	2.3
TX09CS1029	152.1	34.7	104	42	4.3	4.0	1.0	4.0	4.1	2.0
LA07048SBSB-28	146.1	34.5	105	49	3.0	4.7	2.0	3.4	4.1	2.3
Horizon 201	**142.0**	**34.6**	**105**	**51**	**7.3**	**4.0**	**1.7**	**2.5**	**3.6**	**0.7**
LA07048SBSB-39	141.2	35.6	104	46	1.3	4.0	2.3	4.2	4.5	1.7
LA06046-N2-Ab3	140.3	32.6	98	44	1.0	3.3	3.3	4.6	4.1	2.0
FL05067-L1	135.4	37.2	97	53	6.0	2.7	2.3	4.8	4.5	2.7
LA99016	**134.3**	**36.0**	**105**	**48**	**4.7**	**4.3**	**1.7**	**2.8**	**3.6**	**1.7**
LA07048SBSB-5	131.8	34.0	105	52	1.7	4.3	1.7	4.1	4.3	1.3
TX07CS2140	131.3	33.8	104	42	6.0	5.0	0.7	4.4	3.6	1.7
LA06046-N2-Ab2	129.9	34.0	98	40	4.0	3.3	3.3	5.3	5.0	2.3
TX07CS2257	127.6	35.1	105	43	6.3	4.0	2.3	4.1	4.0	2.7
TX07CS1948	125.5	35.4	101	42	5.7	5.7	1.7	3.9	3.7	1.3
LA07048SBSB-19	121.8	34.7	104	52	5.0	3.7	2.3	3.3	4.3	2.0
FL0720-R5	121.6	34.2	105	51	7.0	3.0	3.3	2.6	3.9	1.0
FL0720-R6	120.0	33.5	108	53	8.0	3.0	2.7	2.7	3.5	1.0
REWG0913	**110.5**	**38.0**	**105**	**44**	**7.3**	**5.0**	**2.0**	**4.4**	**4.9**	**1.7**
BROOKS	**108.2**	**32.0**	**106**	**49**	**7.7**	**4.0**	**2.0**	**3.6**	**4.1**	**1.7**
FL0772-R3	101.2	35.6	106	45	4.3	3.7	4.3	4.3	4.6	1.7
FL03254-L1	99.3	37.3	101	47	4.3	3.3	3.0	5.4	4.9	2.3
LA07007SBSB-68	96.6	35.2	101	49	8.3	3.7	3.3	3.9	4.4	1.7
Mean	**130.7**	**34.9**	**103.1**	**46.2**	**4.8**	**4.0**	**2.2**	**4.0**	**4.2**	**1.8**
CV	**10**	**2**	**1**	**4**	**35**	**13**	**28**	**9**	**6**	**41**
LSD (0.10)	**23.9**	**1.4**	**3.1**	**3.4**	**2.8**	**0.9**	**1.0**	**0.6**	**0.4**	**NS**

Data from Macon Ridge Research Station, Winnsboro, LA.

Cultural and Site: Planted: Planting date 11/12/13. 0.4 oz Amber/acre (Nov '13). 75 lb N/acre (Feb). Harvest date 6/9/14. Very little disease pressure. Moderate lodging from heavy storms after maturity.

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

Lodging: 0 = none, 9 = severe

Growth Habit: 0-9 where 3 is very early, springlike and 8 is very late, flat, winter.

Freeze Damage: 0-9, 0 = none, 9 = severe.

Leafy Score: 0-9, 3= very leafy, 8 = not much leaf biomass.

Phenotype: visual appearance, 3 = excellent and 7 = poor.

Bird Damage: 0 = none and 9 = complete. Bird damaage occurred primarlily on the front and back ranges and was not statistically significant.

Appendix A. Entries in the 2014 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Brand	Line/Variety	Originating Agency
WHEAT		
AGS	AGS 2027, 2035, 2038, 2040, 2056, 2057..... 2060	AGSouth Genetics P.O. Box 72246 Albany, GA 31708
ARMOR	Havoc, Octane, Vandal, ARX1313, ARX1325…..... ARX1327, 1332	Armor Seed P.O. Box 9 Waldenburg, AR 72475
Delta Grow	Delta Grow 2100, 3200, 7100, 7200, 720X,……..... 7500, 9700	Delta Grow Seed 220 N W 2nd England, AR 72046
Dixie	McAlister, Xtreme, DXEX13-3, DXEX14-1….....	Cache River Valley Seed, LLC P.O. Box 10 Cash, AR 72421
Dyna-Gro	Baldwin, Oglethorpe, Dyna-Gro 9171.....	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
L-Brand	L-Brand 343……..…….....	Limagrain Cereal Seeds 257 E. Hail Bushnell, IL 61422
Pioneer	26R10, 26R20, 26R41, 26R53, 26R87, XW13X…..... XW11G	Dupont Pioneer 59 Greif Parkway, Suite 200 Delaware, OH 43015
Progeny	Progeny 125, 185, 357, 870, PGX 13-1……	Progeny Ag Products 1529 Hwy. 193 South Wynne, AR 72396

Appendix A. Entries in the 2014 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Brand	Line/Variety	Originating Agency
WHEAT		
Syngenta	Coker 9553, Harrison, SX Cypress…..……...……..	Syngenta 7099 Parkbrook Ln Cordova, TN 38018
Terral	LA 754, LA821, LA841, TV8525, TV8535,..... TV8848, TV8861	Terral Seed, Inc. P.O. Box 826 Lake Providence, LA 71254
USG	USG 3024, 3120, 3201, 3404, 3833…..…….....	UniSouth Genetics, Inc. 3205-C HWY 46 S Dickson, TN 37055
VA	Jamestown, …….…….....	Virginia PI & State University EVAREC 2229 Menokin Road Warsaw, VA 22572

Appendix A. Entries in the 2014 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Brand	Line/Variety	Originating Agency
OATS		
FL	All Numbered FL lines…….	North Florida Res. & Education Center 155 Research Road Quincy, FL 32351
LA	All Numbered LA lines.....	Louisiana Agric. Experiment Station SPESS - LSU Baton Rouge, LA 70803
NC State	Brooks.....	North Carolina Agric. Expt. Station Crop Science Department North Carolina State University Raleigh, NC 27695
Plantation	Horizon 201, 270, 306…..…….....	Plantation Seed P.O. Box 398 Newton, GA 39870
Plot Spike	LA 99016.....	Ragan & Massey, Inc. 101 Ponchatoula Parkway Ponchatoula, LA 70454
TAMO/TX	All numbered TAMO/TX lines……..….....	Texas AgriLife Research TAMU - Commerce Dept. of Ag Science Commerce, TX 75429
Wildwood	REWG0913.....	Wildwood Genetics Larken Plaza, 276 Nissan Pkwy. Bldg. F, Ste. 400 Canton, MS 39046