2010 SMALL GRAIN PERFORMANCE TRIALS

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This support is greatly appreciated.

LOUISIANA STATE UNIVERSITY AGRICULTURAL CENTER
William B. Richardson, Chancellor

LOUISIANA AGRICULTURAL EXPERIMENT STATION
David Boethel, Vice Chancellor and Director

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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 2010 statewide wheat performance trials included 52 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. Data from the Jeanerette location was discarded due to late planting and poor tillering. When choosing varieties, growers should consult their local LCES agents and choose varieties based on two year data within a region, not based on a single year or location. Growers should also consider specific data from the LAES variety trial location that most closely matches the weather and soil conditions of their farm and should avoid growing a single variety on a large acreage. Growing several varieties will help ensure that the entire crop is not severely damaged by chance occurrences in weather or by shifts in pathogen or pest races or virulence patterns. Yield, test weight, maturity, and disease resistance are important traits to consider when selecting varieties. If a grower plans to plant wheat early, he should avoid varieties that have a very early heading date in order to reduce the danger of freeze damage.

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

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

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 leaf rust, rated between flag leaf and mid grain fill.
Septoria	Sept	Septoria leaf & glume blotch rated on a scale of 0 - 9, where 0 indicates no disease and 9 indicates severe disease on the flag leaf and head.
Bacterial Streak	Bact	Bacterial streak (black chaff) rated on a scale of 0 - 9, where 0 indicates no disease and 9 indicates severe disease on the flag leaf and head.
Powdery mildew	Powd mild	Powdery mildew rating on a scale of 0 - 9, where 0 indicates no disease and 9 indicates severe disease present on the foliage. Rated in early to mid spring.
Phenotype	Phe	Phenotypic rating, an overall visual rating prior to harvest. 0=excellent, 9=poor. This rating is a visual rating of 'eye-appeal'.

Growing Conditions and General Comments for 2009-2010

The difficult 2009-2010 season began with heavy rains in late summer which delayed soybean harvest and ground preparation. Heavy rains again, in mid to late October delayed planting, resulting in a short planting season. Excessively heavy rainfall occurred statewide (nearly 20" in Baton Rouge during January and February), severely stressed plants and greatly reduced tillering. A nearly 8 week drought followed, with Baton Rouge running a nearly 90% deficit. Low test weights resulted from a shortened grainfill period. Overall, leaf rust was minimal and stripe rust was moderate to severe with infection of some varieties for the first time occurring at some locations as a result of a new race or virulence combination. Wheat soil borne mosaic virus was present at many locations due to cool, wet soils. Late planting and very poor tillering resulted in no useable data from the Jeanerette location.

Results and Discussion

Performance of Wheat Varieties Across South Louisiana

South Region Means

Performance of wheat varieties tested across south Louisiana in 2010 is shown in Table 1. Bold print in all tables indicates that the entry is a released varitety and normal print indicates that the entry is a breeding line that is not commercially available. Three released varieties had the highest yields, USG 3120 (63.1 bu/acre), Syngenta Coker 9553 (61.3 bu/acre), and Jamestown (60.7 bu/acre). The breeding line LA01110D-150 (59.5 bu/acre) and a fourth released variety, AGS 2035 (58.7 bu/acre) rounded out the top five yielding entries. The yield average for 52 entries was 52.9 bu/acre with a test weight average of 56.0 lbs/bu. The highest yielding variety, USG 3120, had a stripe rust rating of 10% compared to the mean of 8% and a soilborne mosaic virus rating of 3.3, slightly above the mean of 3.2 (0-9 scale). Leaf and stem rust levels were low. Soilborne mosaic virus infrequently occurs at Baton Rouge, but was moderately severe in 2010.

The average heading day was 95 (April 5). Of the fifteen highest yielding entries, only three had a heading date later than the mean, while 12 of the 15 lowest yielding varieties had a heading date lower than the mean, an expected result of the effect of drought on late maturing varieties.

Across south Louisiana, Dyna-Gro Baldwin (75.8 bu/acre), a released variety, and LA01110D-150 (72.8 bu/acre), an experimental line, led in two year mean yields (Table 2). Three other released varieties, AGS 2025, Syngenta Magnolia, and Jamestown ranked in the top five, all with yields above 70.0 bu/acre. The average yield of 21 entries at three locations for two years was 64.9 bu/acre with an average test weight of 57.2 lbs/bu. There was no correlation between heading date and yield.

The released varieties Dyna-Gro Baldwin (73.4 bu/acre) and AGS 2035 (71.3 bu/acre) had the highest three year mean yields of 14 entries tested across south Louisiana (Table 3). The 3rd and 4th ranking varieties Terral LA821 and AGS 2060 had high stripe rust ratings of 19% and 15% respectively, compared to a mean of 6%. The variety Syngenta Magnolia, ranked third in three year mean yields, had a high leaf rust rating of 13%, well above the mean of 7%. As with the two year means, heading date had no relation to yield.

Baton Rouge

The variety Syngenta Magnolia (54.1 bu/acre) and the experimental line LA01110D-150 (52.9 bu/acre) ranked highest in yield of 42 entries at Baton Rouge in 2010 (Table 4). The varieties Dyna-Gro Baldwin, Jamestown, and Pioneer 26R61 rounded out the top five highest yielding entries, all with yields higher than 50.5 bu/acre. The average yield was relatively low (44.0 bu/acre) as was mean test weight (55.2 lbs/bu). Heading was generally late and maturity was about normal, leading to a short

grainfill period and low test weights. Reduced tillering from heavy rains in December-February coupled with the presence of wheat soil borne mosaic virus and a new race of stripe rust resulted in low yields. The average heading date was 97. Soilborne mosaic virus ratings averaged 3.2 (0-9 scale, 9 indicates severe disease) with a high of 5.3 and stripe rust ratings averaged 6% with a high of 48%.

Crowley

The varieties USG 3120, Delta Grow 5000, AGS 2035 led in yield at the Crowley location with yields of 78.4 bu/acre, 72.9 bu/acre, and 69.2 bu/acre respectively (Table 5). Terral LA841 (69.0 bu/acre) and USG 3201 (68.7 bu/acre) ranked fourth and fifth, with yields well above the mean of 62.6 bu/acre. Test weight averaged 56.8 lbs/bu at Crowley. Stripe rust pressure was high with ratings ranging between 0 and 75% with a mean of 9%. Average heading was 94 days at this location.

Jeanerette

Late planting and poor tillering prevented collection of useful data at this location.

Performance of Wheat Varieties Across North Louisiana

North Region Means:

Table 6 contains performance data for 52 entries tested across north Louisiana in 2010. Three experimental lines, Terral TVX8861 (61.7 bu/acre), LA01145D-123-5 (61.2 bu/acre, LA01110D-150 (60.4 bu/acre) and two released varieties. Jamestown (61.2 bu/acre) and USG 3438 (60.0 bu/acre) comprised the top five in yield. The mean test weight was 55.9 lbs/bu. Stripe rust levels were moderate, ranging between 0 and 52% with a mean of 4%. Of the top five yielding entries, four had stripe rust ratings of 0% with the other having a rating of 1%. All but two entries had a heading date of 100 or later.

Performance data of 31 entries across north Louisiana for two years are shown in Table 7. The varieties USG 3120, Dyna-Gro Baldwin, Pioneer 26R87, Syngenta Magnolia, and AGS 2035 took the top five yield rankings, all with yields above 67.5 bu/acre. All of the top five entries had stripe rust ratings less than or equal to 1% with the exception of Pioneer 26R87, which had a rating of 10% compared to the mean of 4%. Syngenta Magnolia had a leaf rust rating of 2%, while the other top five entries had ratings of 0%. Average heading day was 93 (day of year).

The varieties Dyna-Gro Baldwin and Pioneer 26R87 (71.3 bu/acre) tied for the highest yield ranking across north Louisiana over three years (Table 8). The varieties Dixie 427 and USG 3555 tied for the second yield ranking with a yield of 70.0 bu/acre. Of the four, Pioneer 26R87 had a stripe rust rating of 8%, well above the mean of 2% and

a leaf rust rating slightly below average. AGS 2035 rounded out the top five entries with a yield of 69.7 bu/acre and stripe and leaf rust ratings of 0%.

Alexandria

At Alexandria, AGS 2031, Syngenta Magnolia, and Jamestown led 52 entries with yields of 55.6 bu/acre, 53.5 bu/acre, and 53.3 bu/acre, respectively (Table 9). Magnolia had the highest two-year mean yield. Heavy rainfall took its toll at this location, resulting in reduced tillering and thin stands. Stripe rust was moderate (up to 70%) on highly susceptible entries with a mean of 4%. Test means included 46.4 bu/acre for yield and 54.1 lbs/bu for test weight.

Bossier City

Performance data for Bossier City in 2010 is shown in Table 10. Two experimental lines, LA01110D-150 (65.3 bu/acre) and Terral TVX8861 (62.7 bu/acre) had the highest yields. The released varieties USG 3438, Syngenta Coker 9553 and Syngenta 9700 also ranked in the top five, with yields above 59.0 bu/acre, well above the mean of 52.0 bu/acre. Stripe rust was severe on susceptible entries (up to 63%) with a mean of 6%. Other test means include 57.0 lbs/bu and 103 for heading date. Twenty of the 25 highest yielding entries had less than 2% stripe rust, whereas 10 of 11 entries with at least 10% stripe rust had below average yields.

St. Joseph

Yields at St. Joseph were excellent (Table 11). The experimental line LA01145D-123-5 (79.9 bu/acre) was the highest yielding entry at St. Joseph in 2010. The released varieties Delta Grow 8300 (77.1 bu/acre) and Syngenta Coker 9553 (76.5 bu/acre) ranked 2nd and 3rd. Means include 66.1 bu/acre for yield, 56.4 lbs/bu for test weight and day 100 for heading date. Stripe and leaf rust did not occur at this location.

Winnsboro

Yields at Winnsboro were good, with a mean of 61.2 bu/acre (Table 12). The experimental line Terral TVX8861 (74.4 bu/acre) had the highest yield. The released varieties AGS 2035 (70.1 bu/acre), Delta-Gro Oglethorpe (68.8 bu/acre) and Progeny 117 (68.1 bu/acre) also ranked near the top with yields well above the test mean of 61.2 bu/acre. The average test weight was 55.0 lbs/bu. Stripe rust pressure was moderate with new races appearing. Leaf rust was minimal. Overall, the test was good, even though heavy rains in January and February resulted in reduced tillering.

Statewide Performance of Wheat Varieties

Statewide performance data for 42 entries in 2010 is shown in Table 13. Three released varieties, Jamestown (61.0 bu/acre), Syngenta Coker 9553 (60.2 bu/acre) and

USG 3120 (60.2 bu/acre) had the highest yields. Two experimental lines, LA01110D-150 and LA01145D-123-5 rounded out the top five entries with yields above 59.6 bu/acre. The average yield and test weight were 55.3 lbs/acre and 56.0 lbs/bu. Of the top five yielding entries, four had stripe rust ratings of 1 or 0%, whereas the two lowest yielding entries had 46% and 60% stripe rust.

Twenty one entries were tested across Louisiana in 2009 and 2010 (Table 14). Data were collected from all locations in these two years except Jeanerette (2009 only) and Bossier City (2010 only). Three released varieties, Dyna-Gro Baldwin (71.6 bu/acre), Syngenta Magnolia (69.8 bu/acre), and AGS 2035 (69.4 bu/acre) had the highest yields. Means included 64.5 bu/acre for yield, 56.9 lbs/bu for test weight, 6% for stripe rust and 5% for leaf rust. The top three entries all had below average stripe and leaf rust.

Three year statewide performance data for 14 varieties are shown in Table 15. Dyna-Gro Baldwin (72.2 bu/acre), AGS 2035 (70.4 bu/acre) and Jamestown were the three top yielding entries. AGS 2060 and Syngenta Magnolia also ranked in the top five with a yield of 67.9 bu/acre. Means included 64.7 bu/acre for yield and 57.3 lbs/bu for test weight. The three entries with >15% leaf rust had the lowest yields.

OTHER WHEAT TRIALS

Thirty entries were tested in the 2009-2010 USDA Uniform Southern Soft Red Winter Wheat Nursery at Baton Rouge and Winnsboro (Tables 16 and 17). At Baton Rouge, the experimental line LA0110D-84-2 ranked 1st with a yield of 54.3 bu/acre compared to the mean of 36.1 bu/acre and a test weight of 55.8 lbs/bu compared to a mean of 55.1 lbs/bu. Again low test weights and yields were the result of Spring drought. At Winnsboro, Syngenta Coker 9553 was the top yielding entry with a yield of 72.4 bu/acre compared to the mean of 58.8 bu/acre and a test weight of 56.6 lbs/bu compared to the mean of 54.7 lbs/bu. This variety received a stripe rust score of 0.0 (0-9 scale).

Wheat Preliminary Yield Trial A (WPA) was planted at Baton Rouge, Winnsboro, Bay, Arkansas and Greenville, Mississippi in 2010 (Tables 18, 19) and contained 40 entries (36 experimental lines and 4 checks). The test is planted as plots at all four locations and as headrows in a Fusarium misted nursery at Baton Rouge and Winnsboro. At Baton Rouge, the breeding line LA03118E117 had the top yield of 39.3 bu/acre compared to the average of 29.9 bu/acre. At Winnsboro, the highest yielding entry was the breeding line LA04142C-P5 with a yield of 75.8 bu/acre compared to LA841, the highest ranking check with a yield of 69.2 bu/acre. The mean yield of the test was 59.6 bu/acre.

Across Baton Rouge, Winnsboro, and Greenville (Table 20), the leading entry, LA02006E64 had a yield of 60.4 bu/acre compared to 53.8 bu/acre of the top ranking check (LA841) and to the mean of 73.6 bu/acre. The leading entry also had stripe rust, leaf rust, and septoria ratings below the means for those diseases.

Performance of Oat Varieties

Performance of Oat Varieties Across Louisiana:

In 2010, oat variety performance trial data were collected at Baton Rouge, Bossier City and Winnsboro (Table 21). Twenty four entries, which included seven commercial varieties, were included in this trial. Yields were generally poor at all locations due to excess rainfall during tillering and drought during grainfill. The top-yielding entries included one commercial variety, Horizon 201, two "LA" breeding lines, and two Florida breeding lines, one of which, FL99153FBS-45, led the test with a yield of 71.0 bu/acre. The average yield and test weight were 60.6 bu/acre and 30.2 lbs/bu. Stem rust levels were moderate and varied from 0 to 2.5 on a 0-9 scale with a test average of 2.5. All of the top five entries had good (0-1.5 on a 0-9 scale) stem rust ratings.

Table 22 contains oat variety trial data for two years. The top five entries include one released variety, Horizon 270 (89.8 bu/acre) four breeding lines, one from Florida, one from Texas and two from Louisiana. The top five entries all had yields greater than 84.3 bu/acre, above the test mean of 82.0 bu/acre. Other test means include 30.8 lbs/bu for test weight, 6% for crown rust and 1.3(0-9) for stem rust. The top five entries all had crown rust ratings of 0% and stem rust ratings at or slightly above the mean.

Horizon 270 had the highest yield (101.8 bu/acre) across Louisiana for three years (Table 23), well above the test mean of 91.1 bu/acre. It had a test weight of 31.4 lbs/bu compared to a mean of 31.8 lbs/bu.

Baton Rouge:

The breeding line FL0115-J2 ranked first out of 24 entries at this location with a yield of 79.5 bu/acre (Table 24). The top five also included three other breeding lines, two from Louisiana, and one from Florida and commercial variety, Horizon 270, all with yields above 71.3 bu/acre. Test means were 64.2 bu/acre for yield and 30.5 lbs/bu for test weight. Stem rust pressure was relatively light with a test mean of 1.3 (0-9 scale). The top entry rated a 0.0 for stem rust. Heavy rains led to thin stands and reduced tillering which in turn led to low yields.

Bossier City:

The Louisiana breeding line LA05006GSBS-65-S1 led 24 entries at this location with a yield of 70.0 bu/acre (Table 25). Four commercial varieties, Horizon 201, Plot Spike LA9339, LA99017, and Horizon LA976 also ranked in the top five, all with yields above 64.1 bu/acre compared to the mean of 52.3 bu/acre. Plot Spike LA9339, while ranked 3rd in yield, had the highest test weight of 32.3 lbs/bu compared to the mean of 27.3 lbs/bu. There was no disease pressure at this location.

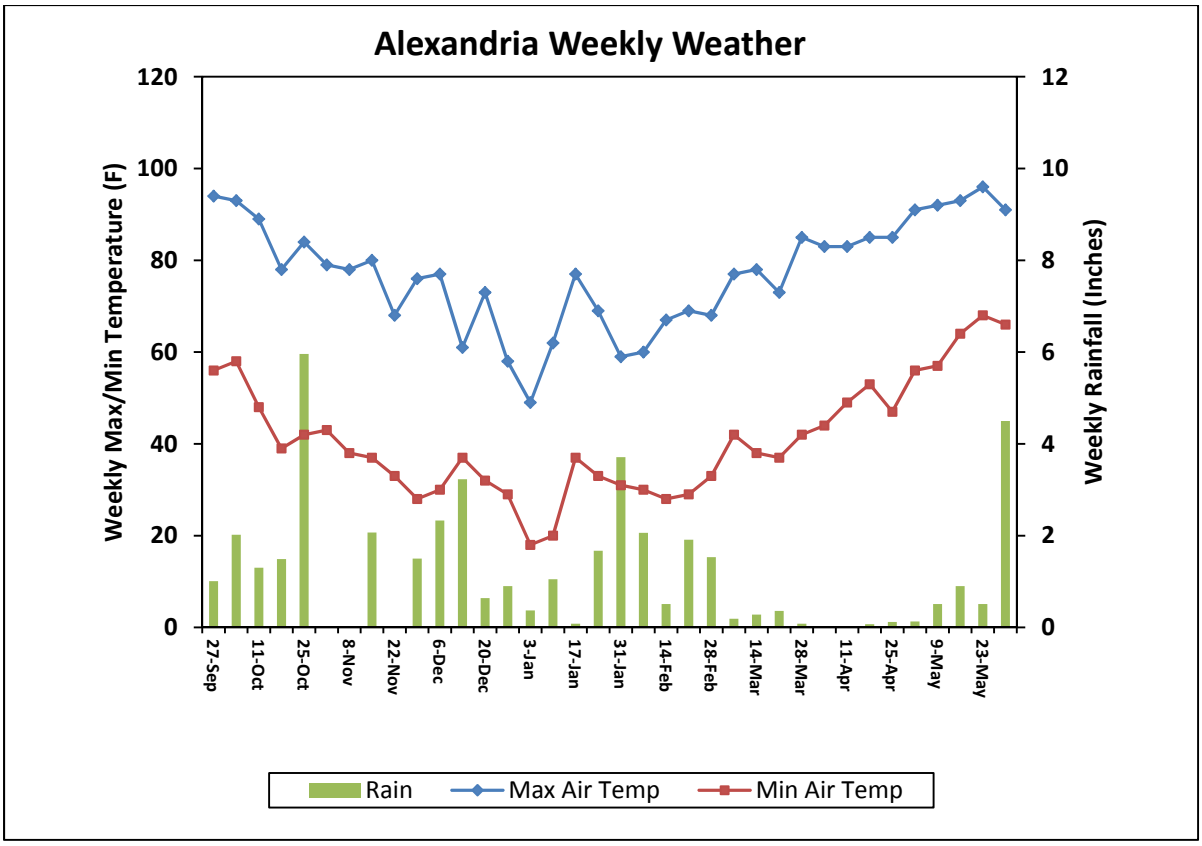
Winnsboro:

At this location, the experimental line FL99153FBS-45 ranked first with a yield of 92.9 bu/acre, much higher than the second ranked entry LA03046SBS7-B-S1 which had a yield of 78.1 bu/acre (Table 26). Three other breeding lines, one each from Florida, Louisiana, and Texas rounded out the top five, all with yields of 69.4 and above. Test means included 65.6 for yield and 32.7 lbs/bu for test weight with no disease pressure.

Uniform Oat Nursery at Baton Rouge:

The USDA regional Uniform Winter Oat Yield Nursery was grown at Baton Rouge (and other locations across the southern US). The test included 23 entries, four of which are released varieties. A Florida breeding line, FL0115-J2, ranked first with a yield of 100.2 bu/acre (Table 27). Three other breeding lines, from Louisiana and Texas, as well as a commercial variety (Horizon 270) also ranked in the top five, all with yields above 83.5 bu/acre. Test means were 76.9 bu/acre for yield, 30.3 lbs/bu for test weight, and 1.6 (0-9) for stem rust.

Figure 1.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Weekly Max/Min Temperature (F)
Weekly Rainfall (Inches)
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100
80
60
40
20
0
12
10
8
6
4
2
0
27-Sep
11-Oct
25-Oct
8-Nov
22-Nov
6-Dec
20-Dec
3-Jan
17-Jan
31-Jan
14-Feb
28-Feb
14-Mar
28-Mar
11-Apr
25-Apr
9-May
23-May
Rain
Max Air Temp
Min Air Temp

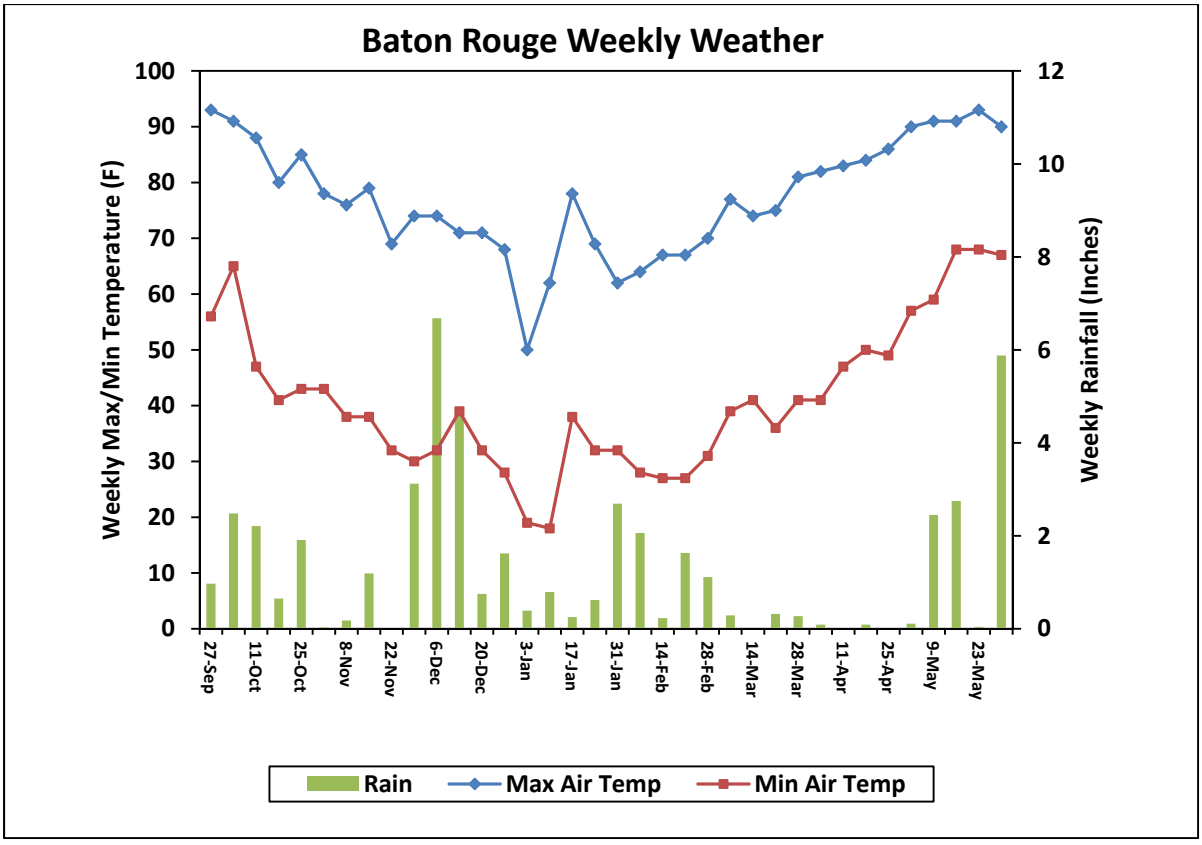
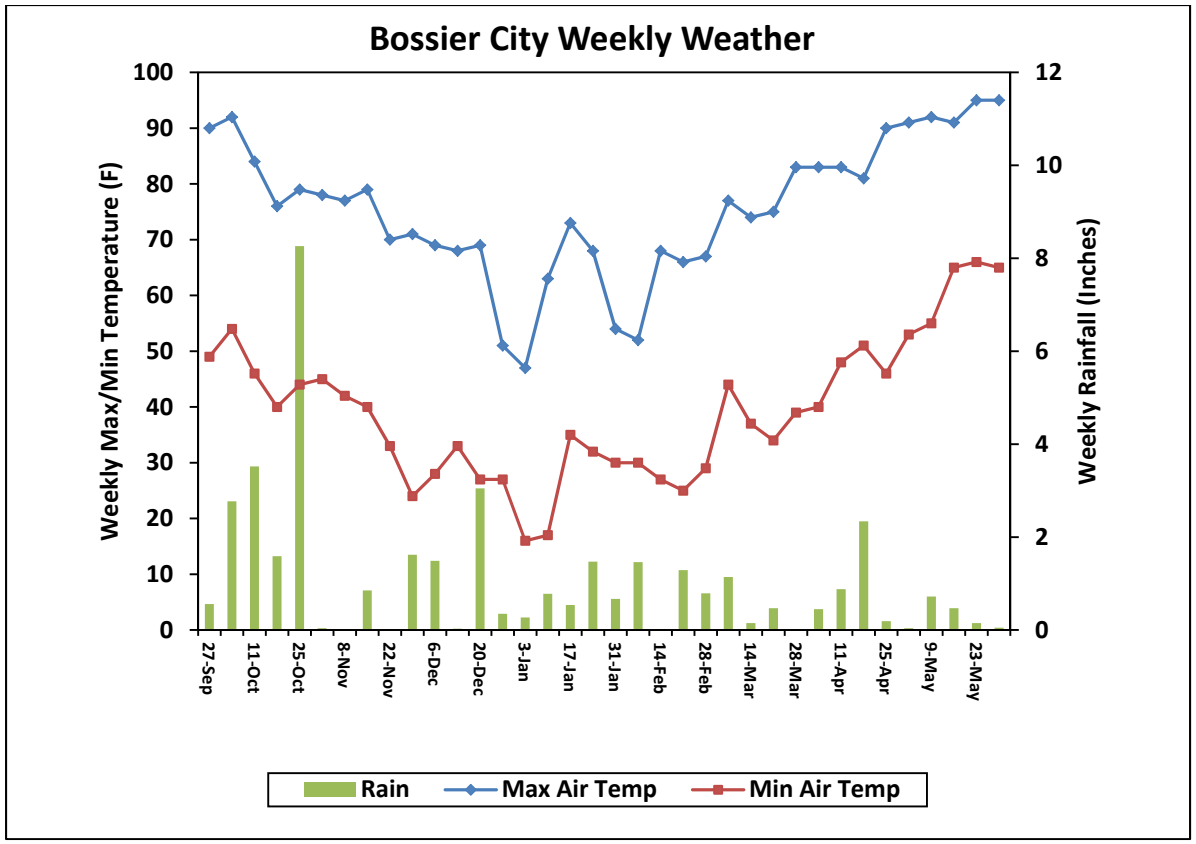

Baton Rouge Weekly Weather
Weekly Max/Min Temperature (F)
Weekly Rainfall (Inches)
100
90
80
70
60
50
40
30
20
10
0
12
10
8
6
4
2
0
27-Sep
11-Oct
25-Oct
8-Nov
22-Nov
6-Dec
20-Dec
3-Jan
17-Jan
31-Jan
14-Feb
28-Feb
14-Mar
28-Mar
11-Apr
25-Apr
9-May
23-May
Rain
Max Air Temp
Min Air Temp

Figure 1.


Bossier City Weekly Weather
Weekly Max/Min Temperature (F)
Weekly Rainfall (Inches)
100
90
80
70
60
50
40
30
20
10
0
12
10
8
6
4
2
0
27-Sep
11-Oct
25-Oct
8-Nov
22-Nov
6-Dec
20-Dec
3-Jan
17-Jan
31-Jan
14-Feb
28-Feb
14-Mar
28-Mar
11-Apr
25-Apr
9-May
23-May
Rain
Max Air Temp
Min Air Temp

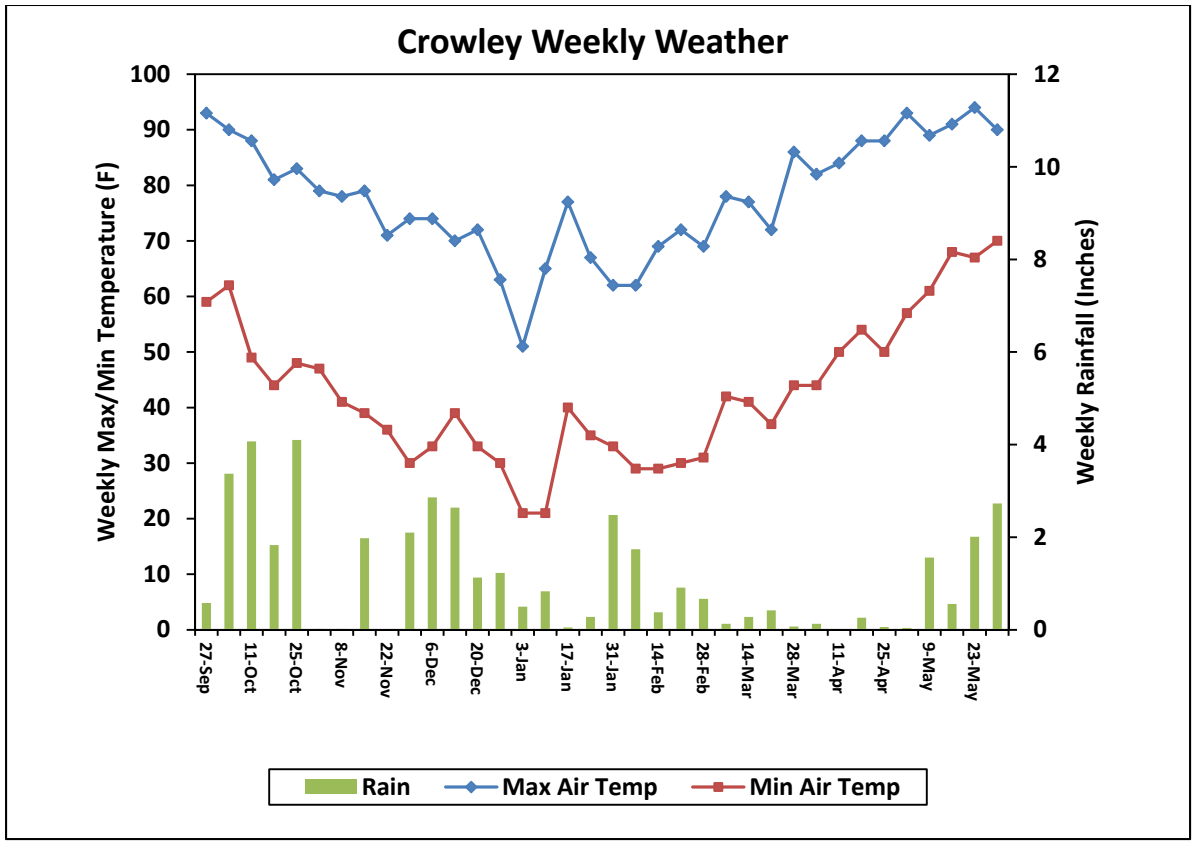
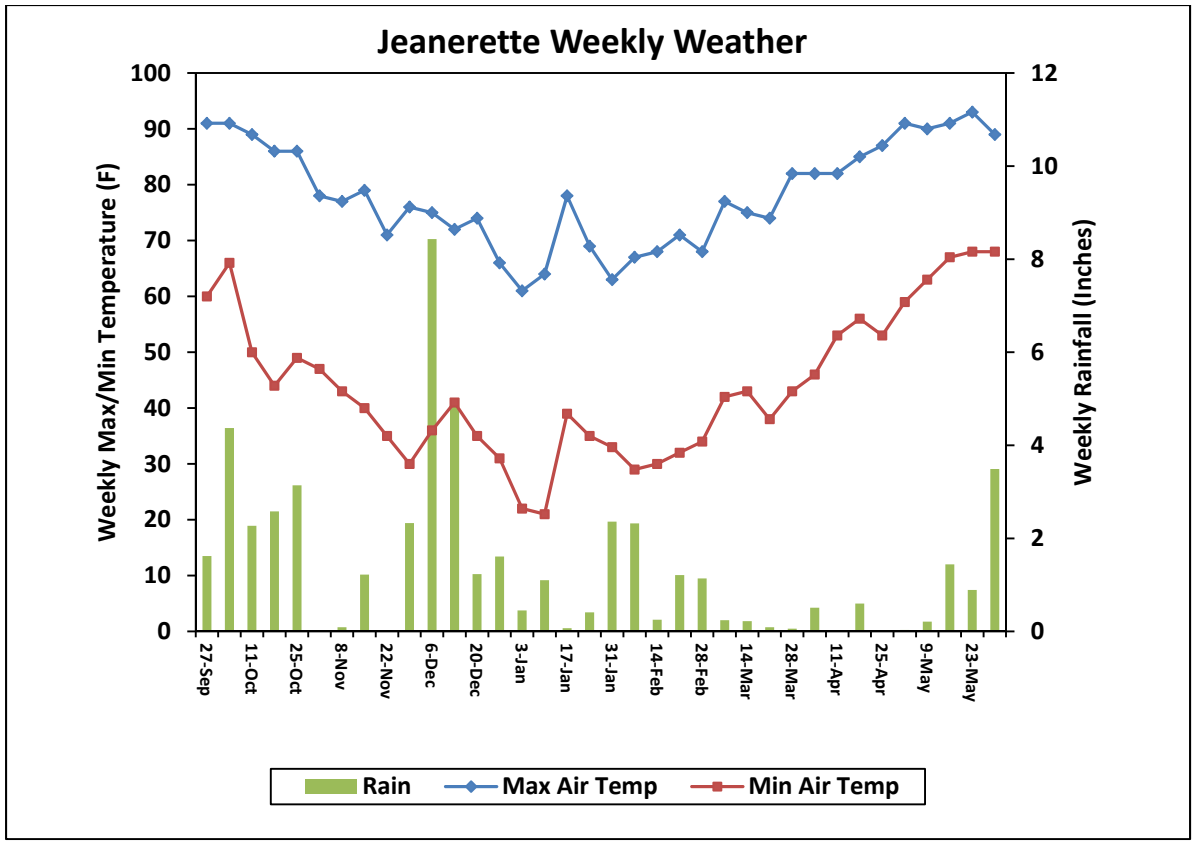

Crowley Weekly Weather
Weekly Max/Min Temperature (F)
Weekly Rainfall (Inches)
100
90
80
70
60
50
40
30
20
10
0
12
10
8
6
4
2
0
27-Sep
11-Oct
25-Oct
8-Nov
22-Nov
6-Dec
20-Dec
3-Jan
17-Jan
31-Jan
14-Feb
28-Feb
14-Mar
28-Mar
11-Apr
25-Apr
9-May
23-May
Rain
Max Air Temp
Min Air Temp

Figure 1.


Jeanerette Weekly Weather
Weekly Max/Min Temperature (F)
Weekly Rainfall (Inches)
100
90
80
70
60
50
40
30
20
10
0
12
10
8
6
4
2
0
27-Sep
11-Oct
25-Oct
8-Nov
22-Nov
6-Dec
20-Dec
3-Jan
17-Jan
31-Jan
14-Feb
28-Feb
14-Mar
28-Mar
11-Apr
25-Apr
9-May
23-May
Rain
Max Air Temp
Min Air Temp

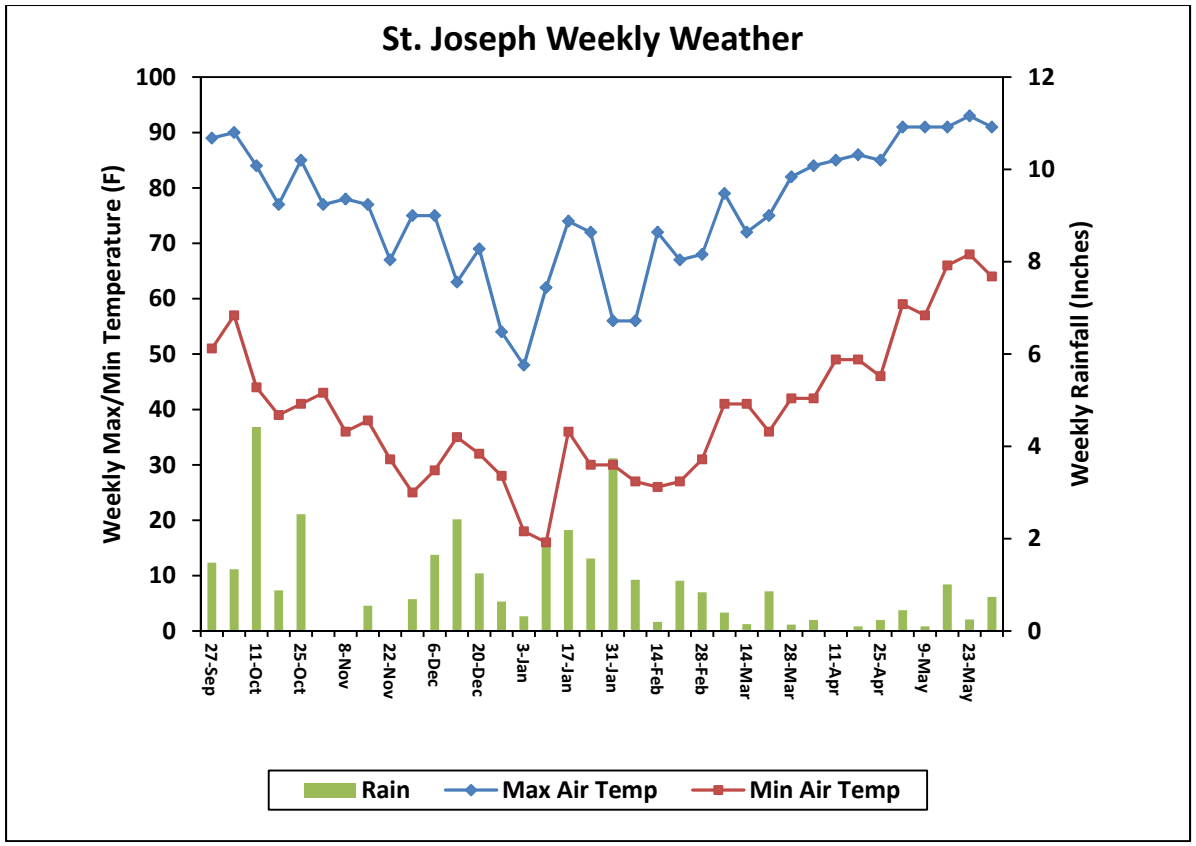

St. Joseph Weekly Weather
Weekly Max/Min Temperature (F)
Weekly Rainfall (Inches)
100
90
80
70
60
50
40
30
20
10
0
12
10
8
6
4
2
0
27-Sep
11-Oct
25-Oct
8-Nov
22-Nov
6-Dec
20-Dec
3-Jan
17-Jan
31-Jan
14-Feb
28-Feb
14-Mar
28-Mar
11-Apr
25-Apr
9-May
23-May
Rain
Max Air Temp
Min Air Temp

Figure 1.

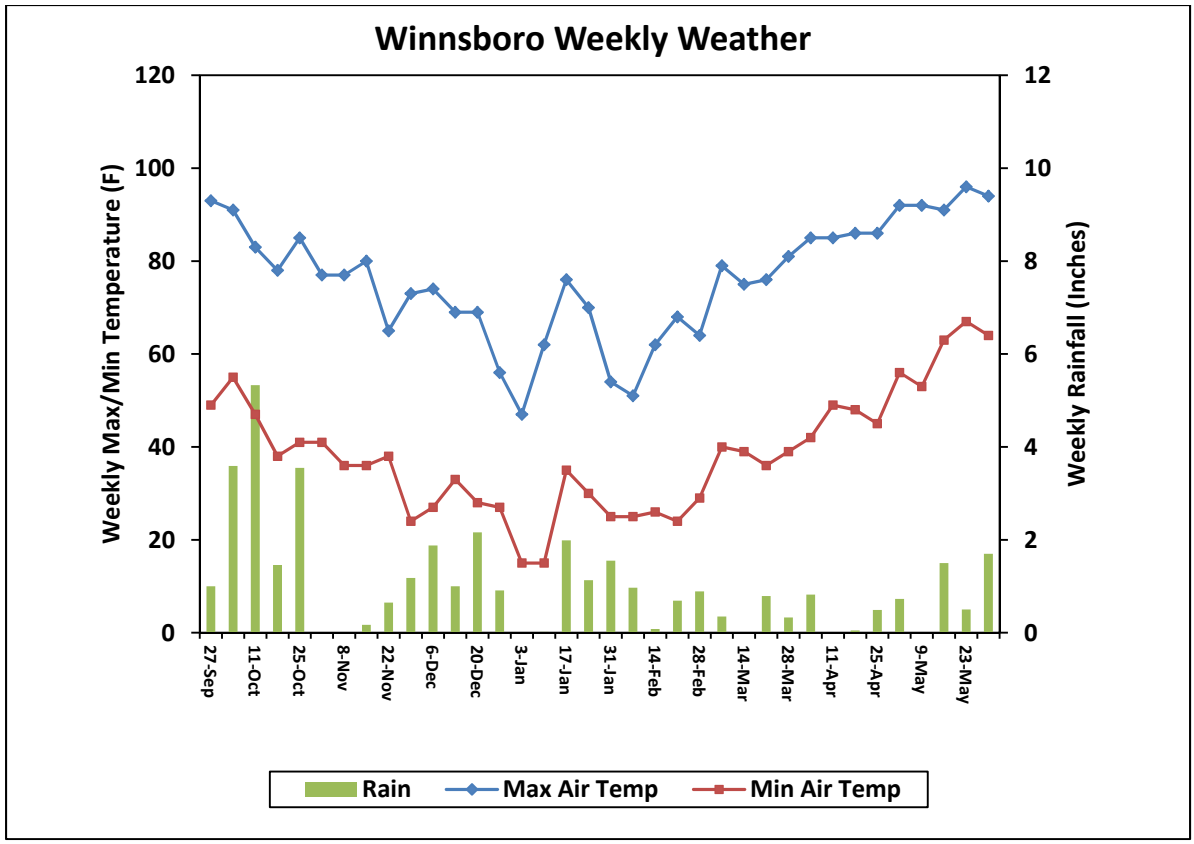

Winnsboro Weekly Weather
Weekly Max/Min Temperature (F)
Weekly Rainfall (Inches)
120
100
80
60
40
20
0
12
10
8
6
4
2
0
27-Sep
11-Oct
25-Oct
8-Nov
22-Nov
6-Dec
20-Dec
3-Jan
17-Jan
31-Jan
14-Feb
28-Feb
14-Mar
28-Mar
11-Apr
25-Apr
9-May
23-May
Rain
Max Air Temp
Min Air Temp

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Table 1. Wheat performance trial across South Louisiana for 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Soilborne Mos. Virus 0-9	Stripe Rust %	Pheno type 0-9
USG 3120	**63.1**	**57.2**	**91**	**36**	**3.3**	**10**	**3.6**
SYNGENTA COKER 9553	**61.3**	**57.1**	**96**	**34**	**2.0**	**0**	**3.9**
JAMESTOWN	**60.7**	**57.2**	**92**	**31**	**2.7**	**2**	**3.7**
LA01110D-150	59.5	56.2	93	36	4.3	1	3.8
AGS 2035	**58.7**	**56.1**	**92**	**35**	**3.7**	**1**	**4.3**
LA01110D-84-1	58.5	56.7	90	37	2.0	7	3.6
LA01139D-86-6-2	58.4	56.5	92	36	4.3	0	4.4
DYNA-GRO BALDWIN	**58.1**	**55.8**	**97**	**37**	**3.3**	**1**	**4.8**
SYNGENTA ARCADIA	**57.8**	**57.5**	**90**	**34**	**3.3**	**3**	**4.3**
DELTA GROW 5000	**57.2**	**55.0**	**95**	**33**	**2.7**	**2**	**4.8**
LA01145D-123-5	57.1	55.1	93	35	5.0	0	4.0
SYNGENTA MAGNOLIA	**57.1**	**56.1**	**95**	**34**	**2.7**	**5**	**4.0**
USG 3201	**56.7**	**55.9**	**101**	**30**	**3.3**	**0**	**5.1**
PROGENY 125	**56.6**	**55.2**	**94**	**33**	**3.0**	**2**	**4.4**
TERRAL LA821	**55.8**	**56.7**	**90**	**36**	**3.3**	**19**	**4.4**
TERRAL LA841	**55.7**	**55.4**	**92**	**33**	**4.0**	**1**	**4.8**
LA01110D-84-2	55.4	56.0	91	35	3.7	3	4.4
JGL51585	54.5	55.6	101	33	1.3	2	5.4
DELTA GROW 8300	**54.3**	**55.0**	**101**	**32**	**1.7**	**2**	**5.5**
LA01034D-42-3	54.0	55.6	92	31	4.0	2	4.1
GA-001170-7E26	53.8	56.7	96	32	4.0	3	4.5
PROGENY 117	**53.8**	**55.9**	**92**	**33**	**2.3**	**20**	**4.9**
PIONEER 26R61	**53.7**	**57.0**	**95**	**33**	**2.0**	**1**	**4.4**
DYNA-GRO OGLETHORPE	**53.5**	**56.1**	**92**	**33**	**3.3**	**2**	**4.4**
TERRAL TVX8861	53.5	54.9	101	32	3.7	0	5.3
SYNGENTA OAKES	**52.9**	**56.3**	**100**	**33**	**3.0**	**2**	**5.5**
AGS 2026	**51.1**	**56.1**	**93**	**34**	**2.3**	**5**	**5.0**
JGL60172	50.7	54.4	100	30	2.0	0	5.2
GA03128-7E34	50.2	55.9	96	29	2.0	23	6.2
USG 3438	**50.2**	**54.3**	**101**	**31**	**3.0**	**0**	**4.7**
Delta King DKX909	**50.1**	**56.3**	**92**	**32**	**5.3**	**19**	**5.2**
AGS 2060	**49.9**	**57.4**	**90**	**36**	**4.0**	**15**	**4.7**
LA01029D-139-3	49.6	56.0	95	34	2.7	17	4.4
TERRAL TVX8581	49.3	55.7	92	34	3.3	18	5.6
DELTA KING DK9577	**49.0**	**55.0**	**99**	**33**	**3.0**	**8**	**5.5**
DELTA KING DK9108	**48.0**	**55.0**	**94**	**37**	**4.0**	**3**	**5.2**
ARX9304	47.8	55.2	101	29	1.7	5	5.6
SYNGENTA 9700	**46.7**	**56.9**	**91**	**32**	**3.0**	**2**	**4.7**
JGL72562	43.6	54.1	102	31	3.0	3	5.7
LA01139D-56-1	40.6	56.5	91	28	5.3	59	7.1
DELTA GROW 5900	**33.7**	**57.5**	**103**	**32**	**2.7**	**7**	**6.5**
LA01139D-56-7-3	32.5	56.7	91	29	5.3	69	7.0
MEAN	**52.9**	**56.0**	**95**	**33**	**3.2**	**8**	**4.9**
CV%	**11**	**2**	**1**	**4**	**40**	**64**	**9**
LSD (0.10)	**8.2**	**NS**	**2**	**2**	**1.7**	**7**	**1**

Data from Ben Hur (Baton Rouge) and Rice (Crowley) Research Stations.

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

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Table 2. Wheat performance trial across South Louisiana for two years, 2009 and 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Lodging Score 0-9	SBMV Virus 0-9	Stripe Rust %	Leaf Rust %	Pheno type 0-9
DYNA-GRO BALDWIN	**75.8**	**57.4**	**87**	**37**	**0.4**	**3.3**	**1**	**0**	**4.0**
LA01110D-150	72.8	57.3	86	36	1.3	4.3	1	1	3.8
AGS 2035	**72.0**	**57.5**	**81**	**36**	**1.4**	**3.7**	**1**	**0**	**4.2**
SYNGENTA MAGNOLIA	**71.5**	**57.4**	**83**	**34**	**0.9**	**2.7**	**5**	**7**	**3.8**
JAMESTOWN	**70.1**	**58.4**	**83**	**32**	**0.7**	**2.7**	**2**	**1**	**3.7**
PIONEER 26R61	**69.2**	**58.1**	**86**	**35**	**0.5**	**2.0**	**1**	**4**	**3.9**
TERRAL LA821	**68.5**	**57.6**	**81**	**35**	**0.6**	**3.3**	**19**	**0**	**3.7**
LA01110D-84-1	66.8	57.6	83	36	1.5	2.0	7	3	3.8
TERRAL LA841	**66.5**	**56.2**	**86**	**33**	**1.1**	**4.0**	**1**	**5**	**4.5**
LA01110D-84-2	65.7	57.5	84	35	1.4	3.7	3	3	4.1
DYNA-GRO OGLETHORPE	**65.3**	**56.9**	**90**	**33**	**0.6**	**3.3**	**2**	**0**	**4.8**
AGS 2026	**64.7**	**56.5**	**90**	**33**	**0.7**	**2.3**	**5**	**1**	**4.9**
DELTA KING DKX909	**64.5**	**57.3**	**79**	**34**	**1.7**	**5.3**	**19**	**0**	**4.5**
USG 3120	**64.2**	**57.6**	**80**	**35**	**1.2**	**3.3**	**10**	**1**	**4.1**
SYNGENTA 9700	**62.8**	**58.0**	**82**	**32**	**0.6**	**3.0**	**2**	**2**	**4.1**
AGS 2060	**61.7**	**58.2**	**78**	**35**	**2.0**	**4.0**	**15**	**0**	**4.3**
LA01139D-56-1	61.7	57.4	82	30	1.3	5.3	59	3	5.4
PROGENY 117	**60.4**	**56.7**	**85**	**35**	**1.8**	**2.3**	**20**	**18**	**5.3**
DELTA KING DK9108	**58.7**	**56.3**	**84**	**37**	**1.3**	**4.0**	**3**	**3**	**4.6**
SYNGENTA COKER 9553	**55.4**	**57.0**	**92**	**35**	**0.6**	**2.0**	**0**	**9**	**4.7**
DELTA KING DK9577	**43.4**	**53.7**	**94**	**34**	**0.4**	**3.0**	**8**	**11**	**5.6**
MEAN	**64.9**	**57.2**	**85**	**34**	**1.0**	**3.3**	**9**	**3**	**4.4**
CV%	**12**	**2**	**3**	**4**	**62**	**36**	**72**	**71**	**14**
LSD (0.10)	**8.9**	**1.3**	**3**	**1**	**1.1**	**1.7**	**8.0**	**5**	**1**

Data from Ben Hur (Baton Rouge) and Rice (Crowley) Research Stations for 2009 and 2010; and from Iberia RS (Jeanerette) for 2009.

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

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Table 3. Wheat performance trial across South Louisiana for three years, 2008, 2009 and 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Lodging Score 0-9	Stripe Rust %	Leaf Rust %	Pheno type 0-9
DYNA-GRO BALDWIN	**73.4**	**57.2**	**89**	**37**	**0.6**	**1**	**0**	**3.9**
AGS 2035	**71.3**	**57.4**	**82**	**35**	**1.2**	**1**	**0**	**4.2**
SYNGENTA MAGNOLIA	**68.6**	**56.3**	**84**	**34**	**1.0**	**5**	**13**	**4.2**
TERRAL LA821	**67.8**	**57.0**	**82**	**35**	**1.3**	**19**	**0**	**3.7**
AGS 2060	**66.4**	**58.0**	**79**	**35**	**1.8**	**15**	**0**	**4.1**
JAMESTOWN	**66.2**	**57.8**	**84**	**31**	**0.9**	**2**	**4**	**4.1**
PIONEER 26R61	**65.7**	**57.5**	**87**	**34**	**0.7**	**1**	**4**	**4.0**
TERRAL LA841	**64.4**	**55.4**	**86**	**32**	**1.2**	**1**	**3**	**4.2**
AGS 2026	**63.2**	**56.0**	**91**	**32**	**1.1**	**5**	**1**	**4.9**
SYNGENTA 9700	**62.9**	**57.0**	**83**	**32**	**0.7**	**2**	**3**	**4.2**
DELTA KING DK9108	**60.5**	**55.7**	**85**	**36**	**1.2**	**3**	**7**	**4.6**
PROGENY 117	**56.0**	**56.2**	**85**	**34**	**2.5**	**20**	**33**	**5.7**
SYNGENTA COKER 9553	**48.2**	**56.4**	**93**	**33**	**1.2**	**0**	**18**	**5.1**
DELTA KING DK9577	**41.8**	**53.5**	**94**	**33**	**1.1**	**8**	**17**	**5.8**
MEAN	**62.6**	**56.5**	**86**	**34**	**1.2**	**6**	**7**	**4.5**
CV%	**12**	**2**	**2**	**5**	**55**	**100**	**79**	**13**
LSD (0.10)	**7.2**	**1.2**	**2**	**1**	**NS**	**8**	**9**	**1**

Data from Ben Hur (Baton Rouge) and Rice (Crowley) Research Stations for 2008, 2009 and 2010; and from Iberia RS (Jeanerette) for 2008 and 2009.

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

Table 4. Wheat performance trial at Baton Rouge, LA for 2010, with two-year mean yields, sorted by two-year mean yields.

	Grain Yield			Test	Head	Plant	SBMV	Stripe	Pheno
	2010	rnk	2-Yr	Wt	Day	Height		Rust	type
Brand / variety		bu/a		lbs/bu	of yr	in	0-9	%	0-9
SYNGENTA MAGNOLIA	**54.1**	**4**	**67.4**	**55.1**	**96**	**36**	**2.7**	**1**	**3.9**
LA01110D-150	52.9	5	65.2	55.2	96	35	4.3	0	4.4
DYNA-GRO BALDWIN	**51.0**	**7**	**65.0**	**56.7**	**99**	**37**	**3.3**	**0**	**4.6**
JAMESTOWN	**54.6**	**2**	**64.3**	**57.1**	**95**	**31**	**2.7**	**0**	**3.6**
PIONEER 26R61	**50.6**	**10**	**62.0**	**56.8**	**96**	**36**	**2.0**	**0**	**4.1**
AGS 2035	**50.8**	**8**	**61.9**	**56.0**	**96**	**37**	**3.7**	**0**	**4.4**
LA01110D-84-1	50.2	11	61.7	55.9	92	37	2.0	0	3.9
TERRAL LA841	**45.7**	**17**	**60.1**	**53.9**	**96**	**32**	**4.0**	**3**	**5.3**
SYNGENTA COKER 9553	**56.3**	**1**	**59.8**	**57.0**	**98**	**34**	**2.0**	**0**	**3.6**
TERRAL LA821	**44.6**	**20**	**59.8**	**55.6**	**92**	**35**	**3.3**	**10**	**4.8**
LA01110D-84-2	47.6	15	59.1	55.8	94	33	3.7	0	4.3
DYNA-GRO OGLETHORPE	**40.3**	**32**	**57.9**	**55.0**	**95**	**33**	**3.3**	**0**	**4.6**
USG 3120	**51.6**	**6**	**56.1**	**56.7**	**93**	**35**	**3.3**	**9**	**4.1**
PROGENY 117	**40.4**	**31**	**55.9**	**55.2**	**93**	**32**	**2.3**	**5**	**5.6**
AGS 2026	**39.3**	**34**	**55.6**	**54.7**	**96**	**34**	**2.3**	**1**	**4.4**
DELTA KING DKX909	**41.5**	**26**	**55.3**	**55.1**	**96**	**28**	**5.3**	**20**	**5.7**
SYNGENTA 9700	**33.4**	**40**	**54.2**	**56.2**	**94**	**31**	**3.0**	**1**	**5.3**
AGS 2060	**40.5**	**29**	**52.9**	**57.5**	**92**	**32**	**4.0**	**16**	**5.7**
LA01139D-56-1	33.9	39	52.1	55.9	94	26	5.3	48	7.1
DELTA KING DK9108	**35.2**	**38**	**48.6**	**53.6**	**96**	**37**	**4.0**	**1**	**5.4**
DELTA KING DK9577	**40.6**	**27**	**40.6**	**53.5**	**100**	**34**	**3.0**	**8**	**5.4**
SYNGENTA ARCADIA	**54.3**	**3**		**57.8**	**93**	**34**	**3.3**	**4**	**4.3**
LA01139D-86-6-2	50.6	9		56.0	95	35	4.3	0	4.6
TERRAL TVX8861	50.1	12		55.3	102	33	3.7	1	4.8
GA-001170-7E26	47.9	13		56.9	97	33	4.0	2	4.4
USG 3201	**47.7**	**14**		**56.0**	**103**	**30**	**3.3**	**0**	**4.9**
LA01145D-123-5-C	46.9	16		52.9	97	32	5.0	0	5.0
PROGENY 125	**44.8**	**18**		**53.1**	**97**	**32**	**3.0**	**1**	**4.5**
DELTA GROW 8300	**44.7**	**19**		**55.4**	**103**	**33**	**1.7**	**1**	**4.8**
JGL60172	44.1	21		53.3	103	31	2.0	0	4.3
LA01034D-42-3-C	43.8	22		53.6	96	31	4.0	3	4.6
USG 3438	**43.0**	**23**		**53.2**	**103**	**32**	**3.0**	**0**	**3.9**
ARX9304	42.4	24		53.9	102	31	1.7	9	5.2
DELTA GROW 5000	**41.6**	**25**		**52.7**	**97**	**31**	**2.7**	**1**	**5.1**
SYNGENTA OAKES	**40.6**	**28**		**56.5**	**103**	**32**	**3.0**	**5**	**5.2**
JGL51585	40.4	30		55.8	103	34	1.3	0	4.7
LA01029D-139-3-C	40.3	33		54.7	97	35	2.7	16	4.7
GA-031238-7E34	38.8	35		54.4	99	28	2.0	19	5.8
TERRAL TVX8581	36.4	36		54.8	93	33	3.3	14	5.9
JGL72562	35.9	37		52.2	104	32	3.0	2	5.4
LA01139D-56-7-3	28.7	41		55.8	94	27	5.3	58	7.3
DELTA GROW 5900	**27.6**	**42**		**57.7**	**104**	**30**	**2.7**	**12**	**6.2**
Mean	**44.0**		**58.0**	**55.2**	**97**	**32**	**3.2**	**6**	**4.9**
CV%	**12**		**11**	**1**	**1**	**5**	**40**	**76**	**9**
LSD (0.10)	**6.4**		**NS**	**0.6**	**2**	**3**	**1.7**	**8**	**0.8**

Ben Hur Research Farm. Baton Rouge, LA. S. Harrison, K. Arceneaux, G. Schexnayder, and K. McCarthy.

Cultural and Site: Planted 11-8-2009. Harvested 5-22-2010. 11-43-43-16S preplant fertilizer. 50-0-0 + 40-0-0 topdress N. Amber plus Harmony Extra herbicides used. Very wet (~20" rain) January - February reduced tillering. Very dry March - April (1.2" rain) hastened maturity and resulted in low test weights.

SBMV is soilborne mosaic virus. 0 = none, 9 = severe leaf chlorosis.

Phenotype is 'overall appearance'. 0 = excellent, 9 = very poor.

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

Table 5. Wheat performance trial at Crowley, LA for 2010 with two-year mean yields, sorted by 2-yr mean yields.

Brand / variety	Grain Yield 2010	Grain Yield rnk	Grain Yield 2-Yr	Test Wt	Head Day	Plant Ht	Lodging	Stripe Rust	Pheno-type
	bu/a			lbs/bu	of yr	in	0-9	%	0-9
DYNA-GRO BALDWIN	**67.7**	**9**	**75.2**	**55.0**	**97**	**36**	**none**	**2**	**5.0**
AGS 2035	**69.2**	**3**	**71.5**	**56.2**	**90**	**34**	**occurred**	**1**	**4.3**
TERRAL LA841	**69.0**	**4**	**71.5**	**57.0**	**90**	**33**		**0**	**4.3**
LA01110D-150	66.1	18	69.3	57.2	91	36		1	3.3
JAMESTOWN	**66.7**	**16**	**69.0**	**57.3**	**90**	**32**		**3**	**3.8**
USG 3120	**78.4**	**1**	**68.8**	**57.7**	**89**	**36**		**10**	**3.0**
LA01110D-84-1	66.8	**14**	68.3	57.6	90	37		10	3.3
SYNGENTA MAGNOLIA	**60.1**	**28**	**68.1**	**57.1**	**95**	**34**		**6**	**4.0**
TERRAL LA821	**67.0**	**12**	**68.0**	**57.7**	**89**	**36**		**24**	**4.0**
DELTA KING DKX909	**58.7**	**32**	**67.6**	**57.6**	**90**	**34**		**18**	**4.8**
DELTA KING DK9108	**60.7**	**27**	**65.8**	**56.5**	**93**	**37**		**4**	**5.0**
PIONEER 26R61	**57.9**	**34**	**65.7**	**57.2**	**95**	**32**		**1**	**4.8**
LA01110D-84-2	65.9	19	65.2	56.3	90	36		4	4.5
PROGENY 117	**67.2**	**11**	**62.7**	**56.7**	**91**	**34**		**28**	**4.3**
DYNA-GRO OGLETHORPE	**66.8**	**15**	**61.7**	**57.1**	**91**	**34**		**3**	**4.3**
AGS 2026	**66.9**	**13**	**61.3**	**57.5**	**91**	**34**		**8**	**5.5**
AGS 2060	**62.5**	**23**	**61.0**	**57.2**	**89**	**38**		**14**	**3.8**
SYNGENTA 9700	**60.0**	**29**	**60.9**	**57.4**	**89**	**33**		**2**	**4.0**
LA01139D-56-1	49.4	41	60.8	57.1	90	28		65	7.0
SYNGENTA COKER 9553	**66.4**	**17**	**57.8**	**57.3**	**95**	**34**		**0**	**4.3**
DELTA KING DK9577	**57.3**	**37**	**53.5**	**57.0**	**98**	**33**		**8**	**5.5**
DELTA GROW 5000	**72.9**	**2**		**57.3**	**95**	**34**		**2**	**4.5**
USG 3201	**68.7**	**5**		**55.8**	**100**	**31**		**0**	**5.3**
LA01139D-86-6-2	68.7	**6**		57.1	91	37		0	4.3
JGL51585	68.5	7		55.3	100	32		3	6.0
PROGENY 125	**68.4**	**8**		**57.4**	**93**	**34**		**3**	**4.3**
LA01145D-123-5-C	67.4	10		57.3	91	36		0	3.0
GA-031238-7E34	65.5	20		57.5	95	30		25	6.5
LA01034D-42-3-C	64.3	21		57.6	91	32		2	3.5
SYNGENTA ARCADIA	**62.5**	**22**		**57.3**	**89**	**35**		**3**	**4.3**
TERRAL TVX8581	62.2	24		56.6	91	35		20	5.3
SYNGENTA OAKES	**62.2**	**25**		**56.1**	**99**	**33**		**1**	**5.8**
DELTA GROW 8300	**61.5**	**26**		**54.6**	**100**	**32**		**2**	**6.3**
GA-001170-7E26	59.7	30		56.5	95	32		3	4.5
LA01029D-139-3-C	58.9	31		57.7	95	33		18	4.0
DELTA GROW 5900	**57.9**	**33**		**57.3**	**103**	**33**		**5**	**6.8**
USG 3438	**57.4**	**35**		**55.4**	**100**	**31**		**0**	**5.5**
JGL60172	57.3	36		55.6	99	30		0	6.0
TERRAL TVX8861	56.9	38		54.5	100	31		0	5.8
JGL72562	54.0	39		56.0	102	31		4	6.0
ARX9304	53.1	40		56.5	100	29		3	6.0
LA01139D-56-7-3	36.3	42		57.5	90	30		75	6.8
Mean	**62.6**		**65.3**	**56.8**	**94**	**33**		**9**	**4.8**
CV%	**9**		**12**	**2**	**1**	**3**		**59**	**12**
LSD (0.10)	**7.5**		**13.7**	**1.3**	**1**	**1**		**6**	**1.0**

Rice Research Station, Crowley, LA. Dustin Harrell, Don Groth, Ron Regan, James P. Leonards, and Jacob Fluitt.

Cultural and Site: Crowley silt loam. Wheat previous crop. 20-60-60 preplant fertilizer. Conventional tillage. Planted 86 lbs seed/acre on 11/7/2009. 2 oz/acre Sencor plus 0.4 oz/acre Finesse herbicides on 1/5/2010. 174 lb urea topdress on 2/8/2010. Harvested 75 ft-square plots on 5/13/2010.

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

Phenotype is a relative 'visual appeal' rating that takes into account plant vigor, diseases, etc. 0 = excellent, 9 = very poor.

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Table 6. Wheat performance trial across North Louisiana for 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Stripe Rust %	Pheno type 0-9
TERRAL TVX8861	61.7	56.4	105	33	0	3.5
JAMESTOWN	**61.2**	**57.3**	**100**	**32**	**0**	**3.2**
LA01145D-123-5	61.2	55.8	99	35	0	3.3
LA01110D-150	60.4	56.0	101	35	1	4.2
USG 3438	**60.0**	**55.2**	**104**	**33**	**0**	**4.7**
AGS 2035	**59.7**	**56.5**	**100**	**36**	**0**	**3.5**
SYNGENTA COKER 9553	**59.6**	**57.3**	**102**	**36**	**0**	**3.8**
USG 3201	**59.6**	**56.8**	**105**	**33**	**0**	**4.2**
CROPLAN 8302	**59.6**	**55.8**	**104**	**34**	**0**	**4.3**
DYNA-GRO OGLETHORPE	**59.4**	**55.4**	**100**	**33**	**0**	**3.8**
TERRAL LA841	**59.4**	**55.3**	**101**	**33**	**0**	**3.7**
DYNA-GRO BALDWIN	**59.2**	**56.9**	**105**	**38**	**0**	**4.0**
LA01139D-86-6-2	58.9	56.6	100	35	0	4.2
AGS 2031	**58.8**	**56.0**	**101**	**33**	**0**	**4.5**
USG 3120	**58.7**	**56.5**	**100**	**36**	**1**	**4.3**
SYNGENTA MAGNOLIA	**58.4**	**56.1**	**103**	**36**	**0**	**3.7**
PIONEER 26R87	**58.0**	**58.3**	**101**	**33**	**10**	**4.3**
DELTA GROW 8300	**57.8**	**56.4**	**104**	**35**	**1**	**5.5**
JGL60172	57.6	55.3	104	33	0	4.7
ARX9304	57.4	54.5	105	32	1	5.5
DELTA KING DKX909	**57.1**	**55.5**	**102**	**35**	**6**	**4.2**
DELTA KING DK9577	**57.1**	**55.1**	**102**	**34**	**4**	**5.3**
DELTA GROW 5000	**57.0**	**54.3**	**100**	**33**	**1**	**3.7**
SYNGENTA 9700	**56.9**	**55.9**	**100**	**33**	**0**	**4.0**
JGL72562	56.8	53.7	106	32	3	5.2
LA01029D-139-3	56.7	56.0	103	35	4	4.7
USG 3555	**56.6**	**55.6**	**101**	**30**	**0**	**4.3**
PROGENY 117	**56.6**	**55.1**	**100**	**36**	**6**	**5.5**
TERRAL TVX8581	56.2	55.6	100	36	6	5.3
GA-001170-7E26	56.1	57.5	103	33	6	4.5
PROGENY 125	**55.9**	**54.5**	**100**	**33**	**0**	**3.8**
LA01110D-84-1	55.3	56.7	100	35	12	4.7
AGS 2060	**55.0**	**58.6**	**101**	**39**	**5**	**3.7**
USG 3295	**54.6**	**55.5**	**102**	**31**	**0**	**5.5**
LA01110D-84-2	54.5	56.5	100	34	13	5.3
PROGENY 166	**54.5**	**55.9**	**103**	**38**	**0**	**5.2**
LA01034D-42-3	54.5	55.7	101	33	0	4.2
SYNGENTA OAKES	**54.4**	**56.4**	**104**	**34**	**1**	**4.7**
GA03128-7E34	54.4	54.9	103	30	8	5.5
TERRAL LA821	**54.4**	**55.3**	**100**	**34**	**5**	**3.3**
JGL51585	54.4	56.6	104	34	0	5.0
PIONEER 26R61	**54.1**	**57.2**	**102**	**35**	**0**	**4.5**
DELTA GROW 1600	**53.8**	**54.7**	**105**	**35**	**0**	**4.2**
DELTA GROW 5900	**53.6**	**57.6**	**105**	**36**	**2**	**5.8**
AGS 2026	**53.5**	**55.4**	**101**	**33**	**1**	**4.2**

Table 6. Wheat performance trial across North Louisiana for 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Stripe Rust %	Pheno type 0-9
DIXIE 454	**53.1**	**53.9**	**103**	**34**	**0**	**5.2**
SYNGENTA ARCADIA	**52.8**	**57.2**	**100**	**33**	**0**	**4.2**
PROGENY 185	**52.8**	**55.4**	**102**	**35**	**17**	**5.7**
LA01139D-56-1	51.0	55.3	100	30	33	6.0
DIXIE 427	**50.6**	**56.0**	**104**	**34**	**4**	**5.3**
DELTA KING DK9108	**48.3**	**54.8**	**102**	**36**	**1**	**4.8**
LA01139D-56-7-3	44.4	56.2	99	31	52	5.0
MEAN	**56.2**	**55.9**	**101**	**34**	**4**	**5**
CV%	**12**	**2**	**1**	**6**	**99**	**15**
LSD (0.10)	**5.6**	**1.0**	**1**	**2**	**10**	**0.9**

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

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

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Table 7. Wheat performance trial across North Louisiana for two years, 2009 and 2010.

	Grain Yield	Test Wt	Head Day	Plant Height	Lodging	Stripe Rust	Leaf Rust	Pheno type
USG 3120	**69.0**	**57.6**	**89**	**37**	**2.3**	**1**	**0**	**3.8**
DYNA-GRO BALDWIN	**68.6**	**57.1**	**96**	**40**	**0.9**	**0**	**0**	**3.4**
PIONEER 26R87	**68.6**	**59.2**	**93**	**35**	**0.6**	**10**	**0**	**3.6**
SYNGENTA MAGNOLIA	**68.5**	**56.9**	**94**	**37**	**0.8**	**0**	**2**	**3.6**
AGS 2035	**67.7**	**57.4**	**89**	**37**	**1.5**	**0**	**0**	**3.1**
JAMESTOWN	**67.5**	**57.9**	**89**	**33**	**0.8**	**0**	**21**	**3.1**
AGS 2031	**66.8**	**56.3**	**93**	**33**	**1.4**	**0**	**0**	**4.3**
DELTA KING DKX909	**66.3**	**56.5**	**91**	**36**	**3.5**	**6**	**0**	**3.5**
TERRAL LA841	**66.3**	**55.8**	**90**	**34**	**2.4**	**0**	**18**	**3.4**
LA01110D-150	66.1	57.0	90	35	3.0	1	1	3.7
DIXIE 427	**66.0**	**55.9**	**96**	**35**	**1.0**	**4**	**0**	**5.0**
DYNA-GRO OGLETHORPE	**65.8**	**56.3**	**91**	**34**	**4.0**	**0**	**0**	**3.3**
USG 3295	**65.8**	**55.7**	**95**	**33**	**0.9**	**0**	**1**	**5.1**
PROGENY 117	**65.5**	**55.7**	**92**	**36**	**1.0**	**6**	**36**	**4.9**
CROPLAN 8302	**65.3**	**55.3**	**98**	**36**	**0.0**	**0**	**12**	**4.2**
USG 3555	**65.0**	**55.8**	**95**	**31**	**1.1**	**0**	**1**	**4.0**
TERRAL LA821	**65.0**	**56.0**	**89**	**35**	**2.6**	**5**	**0**	**3.0**
AGS 2060	**64.2**	**58.8**	**90**	**38**	**2.6**	**5**	**0**	**3.2**
DIXIE 454	**64.0**	**55.0**	**98**	**36**	**1.0**	**0**	**0**	**4.9**
SYNGENTA COKER 9553	**63.7**	**57.7**	**94**	**36**	**1.9**	**0**	**4**	**3.7**
AGS 2026	**63.6**	**56.4**	**91**	**34**	**3.6**	**1**	**1**	**3.7**
LA01139D-56-1	63.5	56.4	89	32	0.9	33	1	4.8
DELTA KING DK9577	**62.7**	**54.1**	**95**	**36**	**1.9**	**4**	**36**	**5.2**
PROGENY 185	**62.7**	**55.1**	**96**	**37**	**1.1**	**17**	**4**	**5.2**
PIONEER 26R61	**61.0**	**57.8**	**92**	**36**	**0.5**	**0**	**0**	**4.3**
LA01110D-84-2	60.5	57.0	89	35	2.4	13	3	4.4
DELTA GROW 1600	**60.3**	**54.3**	**99**	**37**	**0.4**	**0**	**4**	**4.7**
PROGENY 166	**59.8**	**55.4**	**97**	**40**	**0.6**	**0**	**4**	**5.1**
LA01110D-84-1	59.2	57.2	89	36	3.4	12	1	4.0
DELTA KING DK9108	**58.4**	**55.3**	**92**	**37**	**2.3**	**1**	**4**	**4.5**
SYNGENTA 9700	**56.9**	**56.8**	**89**	**34**	**2.6**	**0**	**11**	**3.6**
MEAN	**64.3**	**56.4**	**93**	**36**	**1.7**	**4**	**5**	**4.1**
CV%	**11**	**2**	**2**	**6**	**118**	**113**	**157**	**15**
LSD (0.10)	**5.8**	**1.2**	**3**	**2**	**NS**	**11**	**14**	**0.9**

Data from 2009 and 2010 at Dean Lee (Alexandria), Northeast (St. Joseph) and Macon Ridge (Winnsboro) Research Stations and 2010 Red River RS (Bossier City).

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

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Table 8. Wheat performance trial across North Louisiana for three years, 2008, 2009, and 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Lodging 0-9	Stripe Rust %	Leaf Rust %	Pheno type 0-9
DYNA-GRO BALDWIN	**71.3**	**57.8**	**96**	**41**	**0.4**	**0**	**0**	**3.6**
PIONEER 26R87	**71.3**	**59.8**	**94**	**37**	**0.3**	**8**	**13**	**4.0**
DIXIE 427	**70.0**	**56.5**	**97**	**36**	**2.1**	**3**	**2**	**5.0**
USG 3555	**70.0**	**56.2**	**96**	**33**	**0.6**	**0**	**2**	**4.4**
AGS 2035	**69.7**	**58.2**	**90**	**39**	**0.8**	**0**	**0**	**3.2**
USG 3295	**69.6**	**56.9**	**96**	**35**	**0.7**	**0**	**1**	**5.2**
JAMESTOWN	**69.5**	**58.7**	**91**	**34**	**0.6**	**0**	**18**	**3.4**
AGS 2060	**69.0**	**59.3**	**90**	**40**	**1.2**	**4**	**0**	**3.3**
AGS 2031	**68.6**	**57.3**	**94**	**36**	**1.0**	**0**	**0**	**4.6**
SYNGENTA MAGNOLIA	**67.3**	**57.3**	**94**	**38**	**0.4**	**0**	**14**	**3.6**
TERRAL LA841	**67.2**	**56.6**	**91**	**37**	**1.4**	**0**	**7**	**3.3**
DIXIE 454	**67.1**	**56.6**	**100**	**39**	**0.6**	**0**	**0**	**4.9**
PROGENY 117	**66.3**	**56.3**	**93**	**38**	**1.4**	**4**	**37**	**5.1**
TERRAL LA821	**65.9**	**56.8**	**90**	**38**	**1.4**	**4**	**0**	**3.1**
AGS 2026	**65.7**	**57.0**	**93**	**35**	**3.9**	**0**	**6**	**3.9**
SYNGENTA COKER 9553	**64.3**	**58.3**	**95**	**37**	**1.1**	**0**	**15**	**4.1**
DELTA KING DK9108	**64.0**	**56.3**	**93**	**39**	**1.4**	**1**	**5**	**4.2**
PROGENY 185	**62.8**	**55.4**	**97**	**38**	**0.5**	**13**	**16**	**5.4**
CROPLAN 8302	**62.7**	**55.9**	**100**	**36**	**0.7**	**0**	**23**	**4.3**
PIONEER 26R61	**62.5**	**58.7**	**93**	**39**	**0.2**	**0**	**2**	**4.1**
SYNGENTA 9700	**62.5**	**57.9**	**90**	**35**	**1.5**	**0**	**9**	**3.6**
DELTA KING DK9577	**61.6**	**54.8**	**97**	**37**	**1.6**	**3**	**43**	**5.3**
PROGENY 166	**60.8**	**56.6**	**99**	**41**	**0.6**	**0**	**19**	**5.2**
DELTA GROW 1600	**56.6**	**54.7**	**100**	**38**	**0.9**	**0**	**28**	**5.4**
MEAN	**66.1**	**57.1**	**94**	**37**	**1.1**	**2**	**11**	**4.3**
CV%	**11**	**2**	**2**	**6**	**154**	**123**	**99**	**14**
LSD (0.10)	**5.0**	**0.8**	**2**	**1**	**1.0**	**6**	**13**	**0.7**

Data from 2008, 2009 and 2010 at Dean Lee (Alexandria), Northeast (St. Joseph) and Macon Ridge (Winnsboro) Research Stations and 2008 and 2010 Red River RS (Bossier City).

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

Table 9. Wheat performance trial at Alexandria for 2010, with two-year mean yields, sorted by two-year mean yields.

	Grain Yield			Test	Plant	Stripe
	2010	rank	2-year	Wt	Height	Rust
Brand / variety		bu/a		lbs/bu	in	%
SYNGENTA MAGNOLIA	**53.5**	2	**63.1**	**54.2**	**35**	**0**
PROGENY 117	**51.1**	7	**62.6**	**53.3**	**34**	**0**
DELTA KING DK9577	**46.9**	25	**61.6**	**53.4**	**33**	**0**
USG 3295	**49.9**	13	**61.4**	**53.6**	**33**	**0**
DIXIE 427	**44.5**	36	**60.8**	**51.1**	**34**	**0**
CROPLAN 8302	**52.7**	4	**60.3**	**53.0**	**30**	**1**
AGS 2031	**55.6**	1	**60.1**	**54.8**	**33**	**0**
USG 3555	**46.0**	29	**59.8**	**54.1**	**27**	**0**
AGS 2026	**44.8**	34	**59.7**	**55.9**	**33**	**0**
USG 3120	**49.3**	15	**59.6**	**54.4**	**34**	**0**
DIXIE 454	**46.3**	27	**58.7**	**52.8**	**32**	**0**
TERRAL LA841	**49.8**	14	**58.6**	**54.5**	**32**	**0**
DELTA GROW 1600	**50.3**	11	**58.2**	**53.3**	**33**	**0**
DELTA KING DKX909	**50.0**	12	**57.9**	**56.1**	**36**	**5**
TERRAL LA821	**42.8**	43	**57.6**	**54.5**	**33**	**8**
JAMESTOWN	**53.3**	3	**57.5**	**55.3**	**32**	**0**
PROGENY 185	**42.2**	46	**57.4**	**54.7**	**32**	**0**
AGS 2060	**50.8**	9	**57.3**	**55.6**	**35**	**3**
DYNA-GRO OGLETHORPE	**47.2**	22	**57.2**	**54.6**	**31**	**0**
DYNA-GRO BALDWIN	**47.4**	18	**56.9**	**52.7**	**32**	**0**
AGS 2035	**42.5**	45	**56.9**	**55.2**	**32**	**0**
LA01110D-150	44.4	38	56.2	54.5	31	3
DELTA KING DK9108	**43.2**	42	**56.2**	**53.7**	**31**	**0**
PIONEER 26R87	**41.5**	48	**55.0**	**55.2**	**31**	**4**
SYNGENTA COKER 9553	**47.4**	21	**54.8**	**54.8**	**33**	**0**
PROGENY 166	**42.7**	44	**54.6**	**53.1**	**34**	**0**
LA01110D-84-2	44.2	39	54.2	53.8	33	35
LA01139D-56-1	41.4	49	54.1	54.0	28	25
PIONEER 26R61	**42.1**	47	**52.5**	**54.4**	**33**	**0**
LA01110D-84-1	44.5	37	52.3	54.5	30	35
SYNGENTA 9700	**44.6**	35	**50.7**	**54.7**	**34**	**0**
GA03128-7E34	51.7	5		53.5	31	5
TERRAL TVX8581	51.4	6		54.8	33	3
ARX9304	50.9	8		53.5	32	0
USG 3201	**50.8**	10		**54.5**	**32**	**0**
LA01139D-86-6-2	49.2	16		52.7	33	0
GA-001170-7E26	47.7	17		55.8	35	1
LA01029D-139-3	47.4	19		55.3	31	0
LA01034D-42-3	47.4	20		53.5	32	0
USG 3438	**47.0**	23		**53.8**	**31**	**0**
JGL72562	46.9	24		52.9	33	0
SYNGENTA OAKES	**46.4**	26		**53.2**	**31**	**0**
DELTA GROW 8300	**46.0**	28		**55.0**	**34**	**0**
LA01145D-123-5	45.6	30		56.5	33	0
DELTA GROW 5900	**45.4**	31		**53.6**	**33**	**0**

Table 9. Wheat performance trial at Alexandria for 2010, with two-year mean yields, sorted by two-year mean yields.

Brand / variety	Grain Yield 2010	rank	Grain Yield 2-year	Test Wt	Plant Height	Stripe Rust
	bu/a			lbs/bu	in	%
DELTA GROW 5000	**45.2**	32		**52.8**	**29**	**0**
PROGENY 125	**45.1**	33		**52.4**	**29**	**0**
JGL51585	44.0	40		54.6	33	0
JGL60172	44.0	41		53.2	33	0
TERRAL TVX8861	**39.8**	50		**53.4**	**30**	**0**
SYNGENTA ARCADIA	**39.4**	51		**54.8**	**29**	**0**
LA01139D-56-7-3	30.9	52		54.8	30	70
Mean	**46.4**		**57.6**	**54.1**	**32**	**4**
CV%	**16**		**11**	**3**	**8**	**119**
LSD (0.10)	**8.7**		**NS**	**NS**	**NS**	**8**

No significant differences in yield among varieties tested for two years due to the significant differences in mean yield over varieteis and in yield rank across years.

Data from Dean Lee (Alexandria) Research Station.

Site Information: Planted 11-12-2009. Harvested 6-2-2010. 0-32-64 preplant fertilizer. Topdress urea 92-0-0 on 2-16-2010. Stands somewhat thin with reduced tillering due to fall rainfall. Small heads. Stripe rust severe on highly susceptible varieties, some downy mildew present in low spots.

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

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Table 10. Wheat performance trial at Bossier City for 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Heading Day of yr	Plant Height in	Stripe Rust %
LA01110D-150	65.3	57.4	102	41	0
TERRAL TVX8861	62.7	57.9	106	36	1
USG 3438	**61.4**	**56.1**	**104**	**36**	**0**
SYNGENTA COKER 9553	**60.4**	**58.9**	**103**	**40**	**0**
SYNGENTA 9700	**59.9**	**57.6**	**102**	**35**	**0**
DYNA-GRO OGLETHORPE	**59.3**	**57.2**	**102**	**36**	**0**
DELTA GROW 8300	**58.9**	**57.4**	**105**	**41**	**0**
JAMESTOWN	**58.5**	**58.1**	**102**	**36**	**1**
JGL72562	57.4	55.3	106	35	6
AGS 2031	**57.1**	**56.9**	**104**	**37**	**0**
LA01145D-123-5	56.7	56.8	102	39	0
LA01110D-84-1	56.6	58.1	102	40	1
USG 3295	**55.3**	**57.5**	**104**	**33**	**0**
DELTA-GRO BALDWIN	55.0	58.0	105	45	0
USG 3120	**54.9**	**58.4**	**101**	**40**	**3**
DELTA GROW 5000	**54.9**	**55.9**	**102**	**38**	**2**
USG 3201	**54.6**	**58.4**	**105**	**36**	**0**
PROGENY 166	**54.5**	**57.7**	**104**	**42**	**0**
LA01139D-86-6-2	54.5	58.0	101	40	0
ARX9304	53.5	56.4	106	33	4
CROPLAN 8302	**53.5**	**57.4**	**105**	**37**	**0**
PIONEER 26R61	**53.5**	**58.2**	**103**	**40**	**0**
AGS 2035	**53.5**	**57.6**	**102**	**42**	**0**
LA01034D-42-3	53.1	57.0	102	35	0
USG 3555	**52.8**	**56.8**	**104**	**34**	**1**
PIONEER 26R87	**52.5**	**59.0**	**102**	**37**	**20**
JGL60172	52.3	56.8	104	35	0
DELTA GROW 1600	**52.2**	**56.1**	**105**	**39**	**1**
AGS 2026	**51.5**	**56.4**	**103**	**35**	**0**
LA01110D-84-2	51.3	57.4	102	37	5
GA03128-7E34	51.3	56.1	104	33	15
PROGENY 125	**51.1**	**56.0**	**102**	**37**	**0**
SYNGENTA ARCADIA	**50.0**	**57.9**	**102**	**40**	**1**
TERRAL LA841	**50.0**	**56.9**	**102**	**37**	**1**
JGL51585	50.0	58.6	105	36	0
SYNGENTA OAKES	**49.9**	**57.3**	**105**	**38**	**3**
DELTA KING DK9577	**49.7**	**55.9**	**105**	**38**	**11**
LA01029D-139-3	49.6	57.3	105	39	8
DELTA KING DKX909	**48.2**	**55.6**	**102**	**39**	**10**
AGS 2060	**47.8**	**58.7**	**102**	**44**	**10**
LA01139D-56-1	47.6	56.1	102	35	63
TERRAL TVX8581	47.3	55.3	102	39	15
SYNGENTA MAGNOLIA	**47.1**	**57.6**	**104**	**41**	**1**
PROGENY 185	**46.9**	**55.9**	**103**	**41**	**45**
DIXIE 454	**46.0**	**55.9**	**104**	**35**	**0**

Table 10. Wheat performance trial at Bossier City for 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Heading Day of yr	Plant Height in	Stripe Rust %
DELTA GROW 5900	**45.1**	**57.9**	**106**	**39**	**1**
TERRAL LA821	**44.6**	**56.0**	**102**	**37**	**4**
GA-001170-7E26	42.8	57.6	104	36	14
LA01139D-56-7-3	41.6	56.3	100	35	63
DELTA KING DK9108	**40.9**	**56.0**	**103**	**42**	**4**
PROGENY 117	**39.5**	**54.4**	**102**	**38**	**18**
DIXIE 427	37.6	56.5	105	36	8
Mean	**52.0**	**57.0**	**103**	**38**	**6**
CV%	**13**	**2**	**0**	**5**	**73**
LSD (0.10)	**7.9**	**1.0**	**1**	**3**	**8**

No two-year yield data due to extensive hog damage in 2009.

Data from Red River Research Station (Bossier City) Research Station. Caplis very fine sandy loam.

Site Information: Planted 11-6-2009, harvested 6-3-2010. Osprey herbicide used. 45-0-0 + 45-0-0 (90-0-0 total) topdress N.

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

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Table 11. Wheat performance trial at St. Joseph, LA for 2010, with two-year mean yields, sorted by two-year mean yields..

	Grain Yield			Test	Heading	Plant
	2010	rnk	2-Yr	Wt	day	Height
Brand / variety		bu/a		lbs/bu	of yr	in
PIONEER 26R87	**74.7**	**6**	**83.3**	**58.5**	**100**	**31**
USG 3120	**73.0**	**10**	**77.9**	**56.8**	**100**	**33**
JAMESTOWN	**68.5**	**20**	**77.0**	**57.8**	**99**	**25**
SYNGENTA MAGNOLIA	**72.3**	**12**	**76.8**	**56.7**	**102**	**33**
LA01139D-56-1	63.1	37	76.1	55.7	100	26
AGS 2031	**67.7**	**22**	**75.1**	**56.3**	**98**	**30**
TERRAL LA841	**74.7**	**5**	**74.2**	**55.2**	**99**	**31**
USG 3555	**67.7**	**21**	**73.4**	**56.0**	**99**	**30**
AGS 2035	**73.0**	**9**	**73.2**	**56.5**	**100**	**32**
DELTA KING DKX909	**70.9**	**14**	**73.0**	**55.5**	**100**	**31**
DELTA-GRO BALDWIN	**72.4**	**11**	**72.9**	**57.9**	**103**	**35**
AGS 2060	**66.2**	**28**	**72.5**	**58.8**	**101**	**35**
DIXIE 454	**61.7**	**41**	**72.1**	**54.0**	**101**	**34**
USG 3295	**59.5**	**45**	**72.0**	**55.5**	**100**	**27**
DIXIE 427	**56.4**	**49**	**71.8**	**57.6**	**103**	**32**
SYNGENTA COKER 9553	**76.5**	**3**	**70.2**	**57.3**	**100**	**34**
LA01110D-150	69.0	19	70.1	56.4	100	32
TERRAL LA821	**64.0**	**35**	**69.2**	**55.5**	**100**	**32**
PROGENY 117	**67.6**	**23**	**68.3**	**55.7**	**98**	**32**
PROGENY 185	**64.2**	**34**	**67.7**	**55.4**	**101**	**33**
DELTA KING DK9577	**74.2**	**7**	**65.7**	**55.1**	**101**	**32**
CROPLAN 8302	**66.1**	**29**	**65.7**	**56.0**	**103**	**34**
PIONEER 26R61	**60.9**	**44**	**65.7**	**57.9**	**101**	**33**
DELTA GROW 1600	**58.3**	**47**	**63.7**	**54.8**	**104**	**33**
LA01110D-84-2	62.0	39	62.6	57.3	100	31
DYNA-GRO OGLETHORPE	**63.5**	**36**	**62.1**	**54.8**	**99**	**30**
LA01110D-84-1	64.9	31	58.9	57.3	98	35
PROGENY 166	**61.1**	**43**	**58.9**	**56.7**	**101**	**35**
AGS 2026	**53.5**	**50**	**56.6**	**55.6**	**98**	**29**
DELTA KING DK9108	**51.8**	**51**	**54.9**	**54.4**	**100**	**32**
SYNGENTA 9700	**61.9**	**40**	**49.2**	**55.1**	**99**	**30**
LA01145D-123-5	79.9	1		55.5	99	32
DELTA GROW 8300	**77.1**	**2**		**58.0**	**103**	**33**
LA01029D-139-3	75.7	4		56.4	101	33
USG 3438	**74.1**	**8**		**55.9**	**103**	**31**
LA01139D-86-6-2	72.0	**13**		57.1	101	31
JGL51585	70.4	15		58.1	103	32
USG 3201	**70.2**	**16**		**57.4**	**104**	**30**
TERRAL TVX8861	**70.0**	**17**		**57.1**	**104**	**32**
DELTA GROW 5900	**69.7**	**18**		**59.0**	**103**	**35**
JGL60172	**66.8**	**24**		**56.0**	**103**	**31**
ARX9304	66.7	25		54.1	104	30
DELTA GROW 5000	**66.2**	**26**		**54.1**	**98**	**31**
JGL72562	66.2	27		54.5	104	27
GA-001170-7E26	66.0	30		58.5	100	28

Table 11. Wheat performance trial at St. Joseph, LA for 2010, with two-year mean yields, sorted by two-year mean yields..

Brand / variety	Grain Yield 2010	rnk	2-Yr	Test Wt	Heading day	Plant Height
	bu/a			lbs/bu	of yr	in
PROGENY 125	**64.9**	**32**		**55.1**	**100**	**30**
GA03128-7E34	64.8	33		55.6	100	26
TERRAL TVX8581	62.7	**38**		56.0	98	34
SYNGENTA ARCADIA	**61.3**	**42**		**57.4**	**100**	**30**
SYNGENTA OAKES	**58.8**	**46**		**56.8**	**103**	**31**
LA01034D-42-3	58.3	48		55.9	100	29
LA01139D-56-7-3	47.2	52		56.6	100	25
Mean	**66.1**		**68.6**	**56.4**	**100**	**31**
CV%	**12**		**14**	**2**	**1**	**7**
LSD (0.10)	**9.8**		**NS**	**1.1**	**2**	**4**

Data from Northeast Research Station, St.Joseph, LA. Rick Mascagni, Bartlett Kimbrough, Boyd Padgett, and Myra Purvis.

Varietal differences in yield across two years are not statistically significant due to the large differences in mean yield across years and chages inyield ranks among varieties over years.

Cultural and Site: Planted 11-6-2009, harvested 5-25-2010. 0.4 oz/acre Finesse herbicide on 12-22-2009. Topdress 100lb N on 2-18-2010.

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

NS indicates non-significant differences among varieties

Table 12. Wheat performance trial at Winnsboro, LA for 2010, with two-year mean yields, sorted by two-year mean yields.

	Grain Yield			Test	Head	Plant	Stripe	Pheno
	2009	rnk	2-Yr	Wt	Day	Height	Rust	type
Brand / variety		bu/a		lbs/bu	of yr	in	%	0-9
DYNA-GRO BALDWIN	**65.3**	12	**83.3**	**57**	**106**	**41**	**0**	**4.0**
DYNA-GRO OGLETHORPE	**68.8**	3	**81.0**	**55**	**98**	**35**	**0**	**3.8**
AGS 2026	**64.2**	15	**80.7**	**54**	**102**	**35**	**2**	**4.2**
AGS 2035	**70.1**	2	**80.2**	**56**	**99**	**37**	**0**	**3.5**
PROGENY 117	**68.1**	4	**78.7**	**56**	**101**	**39**	**0**	**5.5**
TERRAL LA821	**66.1**	9	**78.2**	**55**	**100**	**37**	**5**	**3.3**
DELTA KING DKX909	**62.9**	19	**78.1**	**55**	**103**	**36**	**3**	**4.2**
PIONEER 26R87	**67.3**	6	**77.3**	**59**	**103**	**35**	**5**	**4.3**
SYNGENTA MAGNOLIA	**60.5**	28	**76.4**	**55**	**105**	**38**	**0**	**3.7**
USG 3120	**60.4**	29	**76.0**	**55**	**100**	**38**	**0**	**4.3**
CROPLAN 8302	**66.0**	11	**75.6**	**55**	**105**	**36**	**0**	**4.3**
TERRAL LA841	**66.7**	8	**75.2**	**54**	**101**	**35**	**0**	**3.7**
JAMESTOWN	**64.6**	13	**72.6**	**57**	**100**	**34**	**0**	**3.2**
DIXIE 427	**57.5**	42	**72.6**	**56**	**105**	**35**	**3**	**5.3**
DELTA KING DK9108	**58.3**	39	**72.4**	**55**	**103**	**40**	**0**	**4.8**
LA01110D-150	64.2	14	72.2	55	101	36	0	4.2
AGS 2060	**58.1**	40	**72.2**	**60**	**100**	**41**	**3**	**3.7**
PROGENY 185	**60.8**	26	**71.5**	**55**	**103**	**36**	**5**	**5.7**
AGS 2031	**57.0**	43	**70.9**	**55**	**101**	**32**	**0**	**4.5**
LA01139D-56-1	54.9	46	69.8	55	99	32	13	6.0
USG 3295	**53.7**	50	**69.3**	**55**	**104**	**32**	**0**	**5.5**
SYNGENTA 9700	**61.4**	25	**69.2**	**55**	**100**	**35**	**0**	**4.0**
LA01110D-84-2	60.6	27	69.2	56	98	35	0	5.3
PROGENY 166	**59.8**	32	**68.7**	**55**	**105**	**42**	**0**	**5.2**
PIONEER 26R61	**59.9**	31	**68.4**	**57**	**102**	**36**	**0**	**4.5**
DIXIE 454	**56.7**	44	**68.0**	**52**	**104**	**37**	**0**	**5.2**
DELTA KING DK9577	**61.8**	23	**67.8**	**55**	**102**	**35**	**3**	**5.3**
LA01110D-84-1	55.2	45	67.7	56	101	37	1	4.7
SYNGENTA COKER 9553	**58.5**	38	**67.6**	**57**	**104**	**36**	**0**	**3.8**
USG 3555	**59.2**	33	**66.4**	**55**	**101**	**30**	**0**	**4.3**
DELTA GROW 1600	**54.6**	47	**63.0**	**54**	**106**	**37**	**1**	**4.2**
TERRAL TVX8861	74.4	1		56	107	34	0	3.5
GA-001170-7E26	68.0	5		57	104	34	3	4.5
JGL60172	67.1	7		55	105	32	0	4.7
LA01145D-123-5	66.1	10		55	98	39	0	3.3
LA01139D-86-6-2	63.3	16		57	100	36	0	4.2
SYNGENTA ARCADIA	**63.2**	17		**57**	**99**	**36**	**0**	**4.2**
TERRAL TVX8581	**63.2**	18		**56**	**99**	**38**	**1**	**5.3**
USG 3201	**62.8**	20		**56**	**106**	**34**	**0**	**4.2**
PROGENY 125	**62.7**	21		**54**	**99**	**36**	**1**	**3.8**
SYNGENTA OAKES	**62.6**	22		**57**	**104**	**36**	**1**	**4.7**
DELTA GROW 5000	**61.7**	24		**54**	**99**	**35**	**0**	**3.7**
LA01034D-42-3	60.1	30		55	101	36	0	4.2
JGL72562	59.1	34		52	107	34	4	5.2
LA01029D-139-3	58.7	35		55	103	38	4	4.7

Table 12. Wheat performance trial at Winnsboro, LA for 2010, with two-year mean yields, sorted by two-year mean yields.

	Grain Yield			Test	Head	Plant	Stripe	Pheno
	2009	rnk	2-Yr	Wt	Day	Height	Rust	type
Brand / variety		bu/a		lbs/bu	of yr	in	%	0-9
LA01139D-56-7-3	58.6	36		57	99	34	23	5.0
ARX9304	58.6	37		54	106	33	0	5.5
USG 3438	**57.7**	**41**		**54**	**105**	**34**	**0**	**4.7**
DELTA GROW 5900	**54.4**	**48**		**58**	**106**	**36**	**4**	**5.8**
DELTA GROW 8300	**53.9**	**49**		**54**	**106**	**33**	**2**	**5.5**
JGL51585	53.1	51		54	105	34	0	5.0
GA03128-7E34	52.4	52		54	105	29	5	5.5
Mean	**61.2**		**72.9**	**55**	**102**	**35**	**2**	**4.5**
CV%	**10**		**8**	**1**	**2**	**5**	**120**	**15**
LSD (0.10)	**7.0**		**7.9**	**1**	**3**	**3**	**3**	**0.9**

Data from Macon Ridge Research Station, Winnsboro, LA. Rick Mascagni, Bartlett Kimbrough , Boyd Padgett, Myra Purvis, and Gene Boquet.

Cultural and Site: Gigger silt loam. Planted 11-10-2009, harvested 5-28-2010. 95 lb N/acre on 2-17-2010. 4.75 oz/acre Osprey herbicide on 12-22-2010.

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

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Table 13. Wheat performance trial across six Louisiana locations for 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Lodging Score 0-9	Stripe Rust %	Pheno type 0-9
JAMESTOWN	**61.0**	**57.3**	**96**	**31**	**none**	**1**	**3.5**
SYNGENTA COKER 9553	**60.2**	**57.2**	**99**	**35**	**occurred**	**0**	**3.9**
USG 3120	**60.2**	**56.7**	**95**	**36**		**5**	**3.9**
LA01110D-150	60.1	56.1	97	35		1	4.0
LA01145D-123-5	59.7	55.5	96	35		0	3.7
AGS 2035	**59.4**	**56.3**	**96**	**35**		**0**	**4.0**
TERRAL TVX8861	59.0	55.8	103	32		0	4.5
DYNA-GRO BALDWIN	**58.9**	**56.5**	**101**	**37**		**1**	**4.5**
LA01139D-86-6-2	58.8	56.6	96	35		0	4.3
USG 3201	**58.7**	**56.5**	**103**	**32**		**0**	**4.7**
TERRAL LA841	**58.2**	**55.4**	**96**	**33**		**1**	**4.3**
SYNGENTA MAGNOLIA	**57.9**	**56.1**	**99**	**36**		**2**	**3.8**
DYNA-GRO OGLETHORPE	**57.4**	**55.7**	**96**	**33**		**1**	**4.2**
DELTA GROW 5000	**57.1**	**54.6**	**97**	**33**		**1**	**4.3**
USG 3438	**56.8**	**54.9**	**102**	**32**		**0**	**4.7**
DELTA GROW 8300	**56.7**	**55.9**	**103**	**34**		**1**	**5.5**
LA01110D-84-1	56.4	56.7	95	36		9	4.0
PROGENY 125	**56.2**	**54.8**	**97**	**33**		**1**	**4.1**
PROGENY 117	**55.6**	**55.4**	**96**	**35**		**13**	**5.2**
GA-001170-7E26	55.3	57.2	99	33		4	4.5
JGL60172	55.3	55.0	102	32		0	4.9
TERRAL LA821	**54.8**	**55.8**	**95**	**35**		**12**	**3.9**
LA01110D-84-2	54.8	56.3	95	34		8	4.8
DELTA KING DKX909	**54.7**	**55.8**	**97**	**34**		**12**	**4.8**
SYNGENTA ARCADIA	**54.4**	**57.4**	**95**	**34**		**2**	**4.2**
JGL51585	54.4	56.2	103	33		1	5.2
LA01034D-42-3	54.3	55.6	97	32		1	4.1
DELTA KING DK9577	**54.3**	**55.1**	**101**	**34**		**6**	**5.4**
ARX9304	54.2	54.8	103	31		3	5.6
LA01029D-139-3	54.2	56.0	99	34		10	4.5
SYNGENTA OAKES	**54.0**	**56.3**	**102**	**33**		**2**	**5.1**
PIONEER 26R61	**54.0**	**57.1**	**99**	**34**		**0**	**4.5**
TERRAL TVX8581	53.9	55.6	96	35		12	5.5
SYNGENTA 9700	**53.5**	**56.3**	**95**	**33**		**1**	**4.4**
AGS 2060	**53.4**	**58.1**	**95**	**37**		**10**	**4.3**
GA03128-7E34	53.1	55.2	100	29		16	5.9
AGS 2026	**52.8**	**55.7**	**97**	**33**		**3**	**4.6**
JGL72562	52.6	53.8	104	32		3	5.5
DELTA GROW 5900	**48.9**	**57.5**	**104**	**34**		**4**	**6.2**
DELTA KING DK9108	**48.2**	**54.9**	**98**	**36**		**2**	**5.0**
LA01139D-56-1	47.7	55.8	96	29		46	6.6
LA01139D-56-7-3	40.3	56.4	95	30		60	6.2
MEAN	**55.3**	**56.0**	**98**	**34**		**6**	**4.7**
CV%	**12**	**2**	**1**	**5**		**78**	**14**
LSD (0.10)	**4.8**	**0.9**	**2**	**2**		**7**	**1**

Data from Dean Lee (Alexandria), Ben Hur (Baton Rouge) Red River (Bossier City) Rice (Crowley), Northeast (St. Joseph), and Macon Ridge (Winnsboro), Research Stations.

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

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Table 14. Wheat performance trial across Louisiana locations for two years, 2009 and 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Lodging Score 0-9	Stripe Rust %	Leaf Rust %	Pheno type 0-9
DYNA-GRO BALDWIN	**71.6**	**57.3**	**91**	**38**	**0.6**	**1**	**0**	**3.8**
SYNGENTA MAGNOLIA	**69.8**	**57.1**	**88**	**35**	**0.9**	**2**	**4**	**3.8**
AGS 2035	**69.4**	**57.4**	**85**	**36**	**1.4**	**0**	**0**	**3.8**
LA01110D-150	69.0	57.1	87	36	1.9	1	1	3.8
JAMESTOWN	**68.6**	**58.1**	**86**	**32**	**0.7**	**1**	**9**	**3.5**
USG 3120	**67.0**	**57.6**	**84**	**36**	**1.6**	**5**	**1**	**4.0**
TERRAL LA821	**66.4**	**56.8**	**85**	**35**	**1.4**	**12**	**0**	**3.5**
TERRAL LA841	**66.4**	**56.0**	**87**	**34**	**1.6**	**1**	**11**	**4.1**
DYNA-GRO OGLETHORP	**65.6**	**56.6**	**90**	**34**	**1.8**	**1**	**0**	**4.3**
DELTA KING DKX909	**65.6**	**56.8**	**84**	**34**	**2.3**	**12**	**0**	**4.2**
PIONEER 26R61	**64.2**	**58.0**	**89**	**36**	**0.5**	**0**	**2**	**4.1**
AGS 2026	**64.1**	**56.5**	**91**	**34**	**1.8**	**3**	**1**	**4.5**
PROGENY 117	**63.4**	**56.1**	**88**	**35**	**1.5**	**13**	**27**	**5.2**
AGS 2060	**63.2**	**58.5**	**83**	**37**	**2.2**	**10**	**0**	**3.9**
LA01139D-56-1	62.8	56.8	85	31	1.1	46	2	5.2
LA01110D-84-2	62.6	57.2	86	35	1.8	8	3	4.2
LA01110D-84-1	62.4	57.4	85	36	2.2	9	2	3.9
SYNGENTA COKER 9553	**60.3**	**57.4**	**93**	**35**	**1.0**	**0**	**7**	**4.3**
SYNGENTA 9700	**59.4**	**57.3**	**85**	**33**	**1.3**	**1**	**6**	**3.9**
DELTA KING DK9108	**58.5**	**55.7**	**87**	**37**	**1.7**	**2**	**3**	**4.6**
DELTA KING DK9577	**54.8**	**53.9**	**94**	**35**	**0.9**	**6**	**23**	**5.5**
MEAN	**64.5**	**56.9**	**87**	**35**	**1.4**	**6**	**5**	**4.5**
CV%	**12**	**2**	**2**	**5**	**89**	**90**	**145**	**15**
LSD (0.10)	**5.2**	**0.7**	**2**	**1**	**1.0**	**9**	**9**	**0.6**

Data from 2009 and 2010 for Dean Lee (Alexandria), Ben Hur (Baton Rouge) Rice (Crowley), Northeast (St. Joseph), and Macon Ridge (Winnsboro) ; from 2009 for Iberia (Jeanerette) and from 2010 for Red River (Bossier City) Research Stations.

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

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Table 15. Wheat performance trial across Louisiana locations for three years, 2008, 2009 and 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Lodging Score 0-9	Stripe Rust %	Leaf Rust %	Pheno type 0-9
DYNA-GRO BALDWIN	**72.2**	**57.5**	**92**	**39**	**0.6**	**1**	**0**	**3.8**
AGS 2035	**70.4**	**57.8**	**86**	**37**	**1.1**	**0**	**0**	**3.9**
JAMESTOWN	**68.1**	**58.3**	**87**	**32**	**0.7**	**1**	**11**	**3.9**
AGS 2060	**67.9**	**58.8**	**84**	**38**	**1.6**	**8**	**0**	**3.9**
SYNGENTA MAGNOLIA	**67.9**	**56.8**	**88**	**36**	**0.8**	**2**	**14**	**4.1**
TERRAL LA821	**66.7**	**56.9**	**86**	**36**	**1.4**	**11**	**0**	**3.6**
TERRAL LA841	**66.0**	**56.1**	**88**	**34**	**1.3**	**1**	**5**	**3.9**
AGS 2026	**64.7**	**56.5**	**92**	**34**	**2.4**	**3**	**4**	**4.6**
PIONEER 26R61	**63.8**	**58.1**	**90**	**36**	**0.5**	**0**	**3**	**4.0**
SYNGENTA 9700	**62.6**	**57.5**	**86**	**33**	**1.1**	**1**	**6**	**4.0**
DELTA KING DK9108	**62.5**	**56.0**	**88**	**38**	**1.3**	**2**	**6**	**4.5**
PROGENY 117	**61.9**	**56.3**	**89**	**36**	**2.0**	**11**	**35**	**5.5**
SYNGENTA COKER 9553	**57.6**	**57.4**	**94**	**35**	**1.2**	**0**	**16**	**4.8**
DELTA KING DK9577	**53.3**	**54.2**	**95**	**35**	**1.3**	**5**	**31**	**5.7**
MEAN	**64.7**	**57.3**	**89**	**36**	**1.2**	**3**	**9**	**4.3**
CV%	**11**	**2**	**2**	**5**	**97**	**138**	**101**	**14**
LSD (0.10)	**4.4**	**0.6**	**1**	**1**	**0.7**	**4**	**8**	**0.4**

Data from 2008, 2009 and 2010 for Dean Lee (Alexandria), Ben Hur (Baton Rouge) Rice (Crowley), Northeast (St. Joseph), and Macon Ridge (Winnsboro) ; from 2008 and 2009 for Iberia (Jeanerette) and from 2008 and 2010 for Red River (Bossier City) Research Stations.

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

Table 16. 2009-2010 UNIFORM SOUTHERN SOFT RED WINTER WHEAT NURSERY
DATA SHEET

Cooperator: HARRISON, ARCENEAUX, MCCARTHY, Location: **Baton Rouge, LA**

No. of Reps: 2 Harvest Plot Area (sq.ft.): 70 Yield LSD (.05) **8.2** Yield CV%: 11.0

Fertilizer: Seed Date: 11/8/2010 Harvest Date: 5/21/2010

Date/Feekes Growth Stage When Scored 10.1 11 11

ENTRY NO.	CULTIVAR/ DESIGNATION	YIELD bu/A	Yield rank	TEST WT. lbs/bu	HEADING DATE Julian	HEIGHT in.	LODGING 0-9	SBMV 0-9	POWDERY MILDEW	LEAF RUST 0-9	STRIPE RUST 0-9	FHB HEAD DATE	FHB INC	FHB SEV	FHB INDX	PHENO TYPE 0-9
24	LA0110D-84-2	54.3	1	55.8	91.5	36.5		2.0			0.3	109	5	10	0.5	3.9
28	GA001138-8E36	53.0	2	56.3	95.5	36.0		4.5			0.0	113	15	32.5	4	3.5
3	Syngenta Coker 9553	51.4	3	56.5	96.0	33.5		2.5			0.2	110	5	15	0.75	3.4
4	USG 3555	49.3	4	54.9	96.5	30.5		3.5			0.0	113	7.5	15	1.25	4.1
23	LA01139D-86-2	49.0	5	55.9	94.0	34.0		6.5			0.0	110	10	12.5	1.625	3.9
25	LA01056D-84-7-2	48.4	6	56.7	92.0	33.5		5.0			1.0	113	30	40	13	4.1
7	VA06W-392	47.6	7	53.4	96.5	31.5		4.5			1.2	114	15	30	4.5	4.4
16	B05-0142	45.4	8	51.9	96.5	31.5		3.5			0.3	110	20	30	6	4.5
11	AR98088-1-1	45.2	9	56.1	95.5	34.0		3.0			0.7					4.1
6	VA05W-139	45.1	10	54.6	98.0	31.0		3.0			0.0					4.4
27	GA00067-8E35	45.0	11	54.8	93.5	30.0		5.5			0.0	114	17.5	35	6.5	4.5
19	NC05-19896	44.2	12	55.7	104.0	32.0		1.0			0.2					4.4
5	W980031K1	42.8	13	55.8	94.5	34.5		2.5			0.5	113	12.5	20	2.5	4.4
2	Pioneer Brand 26R61	42.1	14	56.1	94.5	35.0		5.0			0.0	112	15	25	4	4.5
1	AGS 2000	38.4	15	55.5	94.0	32.5		4.5			2.7	113	20	40	8	5.6
10	AR96052-4-3	38.2	16	54.3	96.5	33.5		1.5			1.8					5.1
17	B05-0329	35.6	17	54.7	102.0	33.5		3.5			0.2					5.1
29	GA011493-8E18	35.2	18	57.6	97.5	31.0		2.5			3.5					6.4
21	NC06-19556	35.1	19	54.7	99.0	27.5		2.5			0.2					5.0
32	G75692	33.9	20	53.6	98.0	30.0		1.0			1.5					6.1
9	LA01139D-56-1	29.0	21	56.0	92.5	26.5		4.5			4.5	110	12.5	10	1.25	6.9
26	VA06W-412	28.5	22	54.2	97.5	29.0		3.0			3.5	114	5	25	1.25	6.0
12	NC05-19684	28.5	23	56.8	101.0	28.0		0.5			2.2					7.0
31	G81036	27.3	24	53.2	104.0	33.0		3.0			1.7					6.1
20	NC06-20401	25.7	25	55.4	103.0	30.0		1.5			1.2					6.3
14	MD01W270-08-12	24.7	26	56.6	99.5	31.5		1.5			4.0					6.8
18	B05*0323	22.3	27	53.6	102.5	33.0		3.0			2.5					6.4
8	VA05W-251	22.0	28	52.6	95.0	28.0		2.5			4.0	114	12.5	30	3.75	7.0
22	TN902	20.5	29	53.9	100.5	32.0		2.5			3.5					6.9
15	MD01W28-08-11	19.4	30	55.5	101.5	30.0		5.0			2.7					6.4
13	MD00W389-08-4	16.5	31	54.7	94.0	29.0		4.5			5.2					8.1
30	G75735	10.7	32	54.6	104.0	31.0		3.5			4.7					7.5
LOCATION MEAN:		**36.1**		**55.1**	**97.5**	**31.6**		**3.2**			**1.7**	**112.1**	**13.5**	**24.67**	**3.925**	**5.4**
CV%		**11.2**		**1.2**	**1.2**	**5.3**		**48.0**			**56.9**		**54.4**	**42.59**	**90.41**	**6.9**
LSD(0.05)		**8.2**		**1.4**	**2.3**	**3.5**		**3.1**			**1.9**		**15.75**	**22.53**	**7.611**	**0.8**

COMMENTS: Extremely wet January - Feburary (20") reduced tillering. Uniformly cool winter. Very dry March 4 - early May (1.2" total) hastened maturity and lowered test weights.

Moderately heavy stripe rust pressure. Ratings are the mean of three scores (March 11, 22, 30).

No leaf rust, PM or Hessian Fly pressure.

Phenotype is mean of four 'general appearance' ratings. 0 = excellent, 5 = average, 9 = very poor.

Soilborne presence verified by NC State/Christina Cowger. Some soilborne ratings do not correspond with previous data. No other viruses were detected and symptoms were virus and were severe.

Fusarium misted nursery planted somewhat late, wide heading dates range; only early-medium data varieties reported due to confounding.

Table 17. 2009-2010 UNIFORM SOUTHERN SOFT RED WINTER WHEAT NURSERY
DATA SHEET

Cooperator:	HARRISON, ARCENEAUX, MCCARTHY, PADGETT, MASCAGNI								Location:	**WINNSBORO, LA**				
No. of Reps:	2	Harvest Plot Area (sq.ft.):	70			Yield LSD (.05)	**9.5**		Yield CV%:	8.0				
Fertilizer:			Seed Date:	11/18/2009					Harvest Date:	5/26/2010				
Date/Feekes Growth Stage When Scored				10.1	11	11								
ENTRY NO.	**CULTIVAR/ DESIGNATION**	**YIELD bu/A**	**Yield rank**	**TEST WT. lbs/bu**	**HEADING DATE Julian**	**HEIGHT in.**	**LODGING 0-9**	**WINTER KILL 0-9**	**POWDERY MILDEW**	**LEAF RUST 0-9**	**STRIPE RUST 0-9**	**FHB SCAB**	**BLACK POINT 0-9**	**PHENO TYPE 0-9**
3	Syngenta Coker 9553	72.4		56.6	102.0	35.0					0.0			3.0
27	GA00067-8E35	70.7		55.9	100.5	35.5					0.0			3.3
25	LA01056D-84-7-2	70.0		54.9	100.5	36.5					0.8			4.3
16	B05-0142	69.7		53.2	103.0	35.0					0.0			3.5
28	GA001138-8E36	68.1		56.8	105.5	38.5					0.0			3.8
17	B05-0329	66.9		55.8	105.0	38.5					0.3			3.8
24	LA0110D-84-2	65.2		55.3	98.0	37.0					0.0			3.5
26	VA06W-412	65.0		54.6	104.0	33.5					0.3			4.3
1	AGS 2000	64.5		54.0	100.5	37.0					1.5			4.3
6	VA05W-139	63.6		54.5	105.0	32.5					0.0			3.5
4	USG 3555	63.0		53.8	103.5	30.5					0.0			3.5
32	G75692	62.8		54.1	102.0	33.0					0.3			4.5
19	NC05-19896	62.7		56.5	104.0	33.5					0.0			4.5
23	LA01139D-86-2	62.3		56.1	99.5	36.0					0.0			3.8
7	VA06W-392	61.2		53.5	104.5	33.0					0.3			4.5
31	G81036	61.1		53.5	105.0	34.5					0.5			5.3
18	B05*0323	57.8		53.8	105.5	37.0					0.3			5.0
20	NC06-20401	57.6		55.9	104.0	34.5					1.0			5.3
11	AR98088-1-1	57.6		55.2	102.5	36.5					0.5			4.3
2	Pioneer Brand 26R61	57.4		59.8	102.5	33.5					0.0			3.8
29	GA011493-8E18	56.3		56.6	104.5	34.5					1.8			5.8
21	NC06-19556	56.2		54.1	103.5	29.5					0.5			4.3
10	AR96052-4-3	56.1		52.7	101.5	33.0					1.8			5.8
5	W980031K1	55.3		56.5	102.0	34.0					0.0			4.0
22	TN902	54.5		52.2	105.0	38.0					4.5			6.3
13	MD00W389-08-4	51.3		53.4	100.0	32.5					4.5			6.0
9	LA01139D-56-1	50.6		54.8	100.0	30.5					3.3			6.0
14	MD01W270-08-12	50.4		55.5	103.5	34.5					3.3			5.8
12	NC05-19684	50.4		54.2	103.5	29.0					3.3			5.5
8	VA05W-251	49.5		51.3	103.0	33.0					5.0			6.3
15	MD01W28-08-11	41.6		52.7	105.0	36.5					4.8			6.5
30	G75735	33.5		52.8	105.0	39.0					7.0			7.3
LOCATION MEAN:		**58.8**		**54.7**	**102.9**	**34.5**					**1.4**			**4.7**
CV%		**7.8**		**1.9**	**0.8**	**3.8**					**45.6**			**13.6**
LSD(0.05)		**9.5**		**2.1**	**1.7**	**2.7**					**1.3**			**1.3**

COMMENTS: Very wet January - Feburary reduced tillering. Uniformly cool winter. Dry March - June hastened maturity and lowered test weights.
Moderate stripe rust pressure. Ratings are the mean of two scores (Apr 14 and Apr 25).
No leaf rust, PM or Hessian Fly pressure.
Phenotype is mean of two 'general appearance' ratings. 0 = excellent, 5 = average, 9 = very poor.

Table 18. Wheat Prelim-A at Baton Rouge, LA for 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Stripe Rust 0-9	SBMV 0-9	Pheno type 0-9	FHB HDDAY	FHB PHE 0-9	FHB score 0-9
LA03118E117	39.3	53.6	98	26	0.0	4.0	4.3	113	4.0	3.0
LA04142C-P5	39.0	55.2	96	31	0.2	5.5	5.2	113	4.0	**0.5**
AGS 2060	**39.0**	**57.6**	**96**	**30**	**1.2**	**4.5**	**4.5**	**111**	**4.0**	**3.5**
LA01141D-98-6-3	38.8	54.7	98	28	0.0	4.0	5.2	113	4.5	3.5
LA02006E47	38.5	56.1	99	30	0.8	4.5	4.3	114	3.5	4.5
LA02006E122	36.7	54.9	99	26	0.7	5.0	4.2	113	4.0	4.5
LA02006E133	36.7	54.0	99	31	0.7	4.0	4.3	112	4.5	5.0
LA03216D-P8	36.1	54.3	101	32	0.0	4.0	4.8	113	5.0	3.5
LA01141D-98-6-2	35.9	54.5	98	28	0.0	4.0	5.3	113	5.0	4.0
LA02024E12	34.5	54.2	98	30	0.2	4.0	4.7	112	4.0	3.0
LA03085D-P3	34.4	53.8	98	31	1.8	6.0	4.7	115	3.5	5.0
LA02015E219	34.1	57.3	94	30	2.2	5.5	5.7	110	6.0	**2.0**
LA02006E64	33.6	55.6	100	30	0.3	3.0	5.0	110	6.0	3.5
LA03148E42	32.1	56.2	97	27	0.8	4.5	5.2	113	5.0	4.0
LA01139D-5-5-2	32.0	52.9	99	29	0.0	5.0	5.2	113	6.5	5.0
LA841	**31.6**	**52.4**	**98**	**28**	**0.3**	**5.5**	**5.2**	**113**	**6.0**	**5.0**
LA95135	**30.8**	**52.9**	**101**	**32**	**0.0**	**4.5**	**4.8**	**114**	**4.5**	**6.0**
LA02024E18	30.8	54.7	99	28	0.0	3.5	4.7	112	4.0	3.0
LA02015E58	30.6	56.6	96	27	1.3	6.0	6.0	113	7.0	2.5
LA01005D-79-3-3-2	30.6	51.6	97	30	1.8	6.0	4.8	112	4.5	4.5
LA03027D-P10	30.6	57.0	57	27	0.3	7.0	5.7	109	4.0	3.5
LA03217D-P2	30.1	58.0	94	29	0.0	6.5	6.7	110	4.5	**2.0**
LA03051E36	29.8	50.6	94	27	1.8	4.5	5.0	112	4.0	**2.0**
LA02017E88	29.4	54.4	97	29	3.0	5.5	5.5	110	5.5	3.0
LA02006E94	28.2	53.9	101	28	1.5	4.0	4.8	115	4.5	3.0
LA821	**27.2**	**54.9**	**97**	**30**	**1.7**	**5.5**	**5.7**	**113**	**5.5**	**4.0**
LA02015E42	26.9	55.6	96	25	0.3	7.0	6.8	112	6.0	4.0
LA03051E49	26.9	51.1	97	26	2.8	5.5	5.8	112	4.5	3.0
LA02015E122	25.9	55.8	95	27	1.5	7.0	6.3	111	6.0	**2.0**
LA04012D-P26	25.8	53.5	96	31	1.7	4.5	5.2	111	4.5	3.5
LA03186E2	25.7	56.1	99	30	2.8	4.5	5.3	113	4.5	3.0
LA02058E97	23.8	56.0	98	31	3.0	5.5	5.8	113	5.5	3.0
LA04012D-P16	23.6	52.4	97	32	2.5	5.0	5.3	110	6.0	4.0
LA02001E45	23.5	52.1	94	27	3.0	5.0	5.2	110	5.0	5.0
LA03187C-2	22.8	54.7	98	30	4.8	6.0	6.2	115	3.5	**2.0**
LA02156F4	22.1	56.7	97	29	3.3	6.0	6.0	112	4.5	2.5
LA03083E83	21.0	53.0	93	28	4.0	6.0	6.2	114	6.5	4.5
LA04089D-P15	20.3	51.5	98	27	4.3	4.0	6.2	112	4.5	4.5
LA04104D-P1	18.6	55.3	97	27	3.3	4.5	6.5	111	5.5	**1.5**
LA02165E-72	14.9	52.9	99	28	3.3	6.0	6.3	110	6.5	2.5
Mean	**29.9**	**54.5**	**96**	**28**	**1.5**	**5.1**	**5.4**	**112**	**4.9**	**3.5**
CV%	**11**	**1**	**8**	**6**	**41**	**13**	**9**	**1**	**15**	**28**
LSD (0.10)	**5.6**	**0.7**	**13**	**3**	**1.1**	**1.2**	**0.8**	**2.4**	**1.3**	**1.7**

Ben Hur Research Farm. Baton Rouge, LA. S. Harrison, K. Arceneaux, and K. McCarthy.

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

FHB is Fusarium misted headrow nursery.

Table 19. Wheat Prelim-A at Winnsboro, LA for 2010.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Stripe Rust 0-9	Pheno type 0-9
LA04142C-P5	75.8	56.7	100	45	0.3	3.3
LA02006E47	72.6	54.3	103	38	0.6	4.0
LA04012D-P26	71.1	54.1	96	41	1.0	4.3
LA02006E64	71.1	56.4	101	39	0.6	3.2
LA03118E117	70.3	55.4	102	32	0.0	4.3
LA02024E12	70.1	55.7	102	36	0.0	3.6
LA841	**69.2**	**53.8**	**100**	**35**	**0.3**	**4.0**
LA03217D-P2	68.9	57.6	97	35	0.5	4.1
LA03027D-P10	68.7	55.5	98	35	0.3	3.2
LA02015E58	68.4	56.6	101	37	1.7	3.6
LA02024E18	67.0	55.6	102	33	0.4	3.4
LA01141D-98-6-2	66.8	54.9	101	34	0.4	4.3
LA02015E122	66.3	56.1	99	38	1.8	4.2
LA02006E122	64.7	54.0	102	39	0.4	4.3
LA02017E88	64.4	53.9	97	36	3.8	5.2
LA01139D-5-5-2	63.0	53.6	103	37	0.0	4.4
LA03085D-P3	62.8	54.6	101	36	1.3	4.3
LA03148E42	62.7	57.3	101	34	0.5	4.2
LA02058E97	62.6	56.8	102	36	1.0	4.5
LA02006E133	61.7	53.6	102	37	1.3	3.8
LA02015E42	61.4	55.8	101	30	0.2	3.8
LA95135	61.3	52.4	102	38	0.3	4.1
LA02015E219	59.6	55.2	99	33	2.9	4.6
LA03216D-P8	59.0	54.8	104	39	0.5	4.5
LA821	**58.7**	**54.5**	**101**	**36**	**1.5**	**4.3**
LA02006E94	57.2	53.4	104	39	1.6	4.4
LA01141D-98-6-3	57.2	55.4	103	33	0.0	4.5
LA02001E45	53.2	52.1	96	35	2.5	4.1
LA01005D-79-3-3-2	52.3	53.4	102	37	2.2	4.4
LA03187C-2	51.9	54.8	106	35	1.9	5.2
LA03051E36	51.0	52.2	100	32	1.8	4.3
LA02156F4	50.6	56.4	101	38	3.5	5.3
AGS 2060	**50.1**	**57.7**	**103**	**37**	**1.3**	**4.8**
LA03051E49	49.7	51.2	99	32	2.6	4.4
LA04104D-P1	49.4	55.4	98	37	2.9	5.0
LA04012D-P16	45.5	53.4	98	34	4.3	5.5
LA03186E2	44.7	56.1	105	36	1.6	5.4
LA04089D-P15	44.7	51.9	103	35	3.0	5.2
LA02165E-72	40.6	53.8	100	35	5.0	5.6
LA03083E83	31.5	50.6	101	35	3.7	5.6
Mean	**59.6**	**54.7**	**101**	**36**	**1.5**	**4.4**
CV%	**9**	**1**	**1**	**4**	**54**	**14**
LSD (0.10)	**9.3**	**0.8**	**2**	**3**	**1.4**	**1.0**

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

Table 20. Wheat Prelim-A at Baton Rouge, LA, Winnsboro, LA and Greenville, MS; with disease data from Bay, AR.

Brand / variety	Grain Yield bu/a	Test Wt lbs/bu	Head Day of yr	Plant Height in	Stripe Rust 0-9	Leaf Rust 0-9 AR	Septoria 0-9 AR	WSSMV Score 0-9 AR	SBMV Score 0-9 BR	FHB Score 0-9 BR	Phenotype 0-9
LA02006E64	60.4	56.1	104	34	1.6	3.0	3.5	2.5	3.0	3.5	4.1
LA02006E47	59.2	55.2	105	34	1.5	2.0	3.5	3.0	4.5	4.5	4.2
LA04142C-P5	58.1	55.9	99	37	0.8	5.0	4.0	4.5	5.5	0.5	4.3
LA03118E117	56.9	54.5	104	28	0.8	3.0	4.5	2.0	4.0	3.0	4.3
LA02006E122	56.1	54.5	105	33	1.4	2.5	4.0	2.0	5.0	4.5	4.2
LA01141D-98-6-2	55.0	54.7	104	31	0.8	6.0	3.5	6.5	4.0	4.0	4.8
LA02024E12	54.7	55.0	104	33	0.7	2.5	4.0	2.0	4.0	3.0	4.1
LA03217D-P2	53.9	57.8	99	32	1.0		8.5	2.5	6.5	2.0	5.4
LA841	**53.8**	**53.1**	**103**	**31**	**1.1**	**2.5**	**4.5**	**4.0**	**5.5**	**5.0**	**4.6**
LA03085D-P3	53.4	54.2	103	34	2.7	2.5	4.5	3.5	6.0	5.0	4.5
LA95135	52.6	52.6	105	34	0.8	2.0	4.0	4.5	4.5	6.0	4.5
LA02024E18	52.2	55.2	104	31	1.0	2.0	4.0	2.5	3.5	3.0	4.0
LA02015E58	51.6	56.6	103	32	1.8	2.5	4.5	4.5	6.0	2.5	4.8
LA03027D-P10	51.6	56.2	88	31	0.9	4.5	5.5	2.5	7.0	3.5	4.4
LA03148E42	51.5	56.8	104	30	1.4	2.0	3.0	2.0	4.5	4.0	4.7
LA02015E122	51.2	56.0	102	32	2.3	2.5	4.5	2.0	7.0	2.0	5.3
LA01141D-98-6-3	51.2	55.1	104	30	0.8	8.0	5.5	6.5	4.0	3.5	4.8
LA02006E133	51.0	53.8	105	34	1.8	2.5	4.5	2.0	4.0	5.0	4.1
LA03216D-P8	50.5	54.5	106	35	0.8	2.0	4.5	3.0	4.0	3.5	4.7
AGS 2060	**50.3**	**57.7**	**104**	**34**	**1.8**	**2.0**	**4.0**	**2.0**	**4.5**	**3.5**	**4.7**
LA01139D-5-5-2	50.2	53.3	105	32	0.8	3.0	6.0	5.0	5.0	5.0	4.8
LA02017E88	49.8	54.2	101	33	3.9	4.0	6.0	3.0	5.5	3.0	5.3
LA02015E219	49.4	56.3	101	31	2.4	4.0	5.0	2.5	5.5	2.0	5.1
LA02006E94	48.8	53.6	107	33	1.9	2.0	3.0	3.0	4.0	3.0	4.6
LA04012D-P26	48.8	53.8	99	36	1.7	2.5	5.5	2.5	4.5	3.5	4.8
LA821	**48.3**	**54.7**	**103**	**33**	**2.9**	**2.5**	**5.5**	**3.0**	**5.5**	**4.0**	**5.0**
LA02015E42	48.2	55.7	103	28	1.0	2.0	5.5	2.5	7.0	4.0	5.3
LA02058E97	48.2	56.4	104	33	2.0	6.5	3.5	5.0	5.5	3.0	5.2
LA03051E36	48.2	51.4	102	29	2.2	3.0	4.5	2.0	4.5	2.0	4.7
LA03051E49	46.8	51.1	102	29	3.1	3.5	5.0	2.5	5.5	3.0	5.1
LA02001E45	46.2	52.1	99	32	3.5	7.0	6.5	2.5	5.0	5.0	4.6
LA01005D-79-3-3-2	45.7	52.5	104	32	2.5	2.0	3.5	4.5	6.0	4.5	4.6
LA02156F4	44.8	56.6	103	34	4.6	6.0	5.0	2.5	6.0	2.5	5.7
LA03187C-2	44.2	54.7	107	33	3.8	2.0	5.0	2.0	6.0	2.0	5.7
LA04089D-P15	43.7	51.7	104	32	4.4	5.0	4.5	2.5	4.0	4.5	5.7
LA02165E-72	43.6	53.3	103	31	5.8			2.0	6.0	2.5	6.0
LA04104D-P1	43.5	55.4	101	32	4.1		9.0	2.0	4.5	1.5	5.8
LA04012D-P16	42.9	52.9	101	33	4.8	5.0	6.0	4.5	5.0	4.0	5.4
LA03186E2	41.1	56.1	106	33	3.5	2.0	4.0	2.5	4.5	3.0	5.4
LA03083E83	36.5	51.8	102	31	4.9		5.5	2.0	6.0	4.5	5.9
Mean	**49.9**	**54.6**	**103**	**32**	**2.2**	**3.4**	**4.8**	**3.1**	**5.1**	**3.5**	**3.3**
CV%	**9**	**1**	**5**	**5**	**36**	**21**	**19**	**19**	**13**	**28**	**21**
LSD (0.10)	**8.3**	**1.2**	**5**	**2**	**1.0**	**1.2**	**1.6**	**1.0**	**1.2**	**1.7**	**0.9**

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

FHB is Fusarium misted headrow nursery.

Table 21. Oat variety trial across Louisiana (Baton Rouge, Bossier City, and Winnsboro), 2010.

Brand / variety	Grain Yield	Test Wt	Wint Stress	Head Day	Plant Height	Lod Score	Stem Rust	Pheno type
	bu/a	lbs/bu	0-9	of yr	in	0-9	0-9	0-9
Single Location -->						WN	BR	BR
FL99153FBS-45-1-B-S-B-S1-B-S1	71.0	32.6	4.3	103	32	2.5	0.5	4.5
HORIZON 201	**68.2**	**29.5**	**2.7**	**101**	**38**	**5.5**	**1.0**	**5.0**
LA03046SBS7-B-S1	68.0	31.0	3.5	103	34	0.5	1.5	4.5
FL0115-J2	67.5	30.3	1.8	102	35	0.5	0.0	4.0
LA05006GSBS-65-S1	66.7	31.2	2.8	104	36	1.5	1.5	4.3
PLOT SPIKE LA9339	**64.8**	**31.0**	**2.2**	**106**	**39**	**1.0**	**1.0**	**4.0**
FL0522-FLID-B-S-B-S-92-S1	64.5	32.5	2.8	102	37	1.0	0.5	4.0
HORIZON LA976	**63.5**	**31.5**	**3.5**	**103**	**37**	**2.5**	**1.5**	**4.8**
TX05CS347-1	63.4	30.4	2.8	108	35	1.0	1.0	4.0
LA99016	**62.6**	**30.1**	**2.3**	**103**	**40**	**1.5**	**2.0**	**4.5**
LA99017	**62.4**	**29.7**	**2.3**	**104**	**40**	**1.0**	**2.0**	**4.8**
LA97006GSB-59-2-4-SBS1	61.7	30.5	3.3	103	34	0.0	1.5	4.5
HORIZON 270	**61.6**	**29.5**	**3.8**	**102**	**35**	**1.0**	**2.5**	**5.8**
FL04155-S06-31-B-S1	59.6	30.5	2.8	102	37	2.5	0.0	4.3
LA04004SBSB-113	58.5	30.8	3.2	102	36	0.5	2.0	5.5
LA06059SBS-84-S1	57.2	29.0	2.7	101	33	1.5	1.0	4.3
LA03063SBSBSB-S4	56.4	27.7	3.0	98	33	2.0	1.5	5.3
TX02U7682	55.2	29.7	3.7	100	35	1.5	1.5	5.5
FL0046-E7	54.7	29.5	3.3	101	38	4.5	2.0	5.3
LA03063SBSBSB-6	54.5	30.4	4.3	98	34	1.0	1.5	5.3
FL03053-S06-15-B-S1B	54.4	29.8	3.8	102	37	1.5	1.0	5.0
BROOKS	**52.7**	**26.6**	**2.0**	**103**	**39**	**6.5**	**2.0**	**4.3**
LA04023-L3	52.1	29.7	2.8	103	39	1.0	1.0	5.3
FL03167BSB-145	51.7	29.9	2.5	100	35	2.5	1.5	5.0
Mean	**60.6**	**30.2**	**3.0**	**102**	**36**	**1.9**	**1.3**	**47.0**
CV%	**19.2**	**3.9**	**18**	**3**	**7**	**63**	**50**	**8**
LSD (0.10)	**NS**	**2.1**	**NS**	**2.0**	**2.0**	**2.0**	**1.1**	**0.7**

Data from Baton Rouge, Bossier City, and Winnsboro, LA. Single Location: BR = Baton Rouge, WN = Winnsboro.

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

Lodging and Stem Rust: 0 = none, 9 = severe.

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

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

Phenotype is a relative 'visual appeal' rating that takes into account plant vigor, diseases, etc. 0 = best.

Table 22. Oat variety trial across Louisiana for two years, 2009 and 2010.

Brand / variety	Grain Yield	Test Wt	Wint Stress	Leaf iness	Head Day	Plant Ht	Lod Score	Crown Rust	Stem Rust	Pheno type
	bu/a	lbs/bu	0-9	0-9	of yr	in	0-9	%	0-9	0-9
FL0115-J2	90.2	30.8	1.8	4.0	95	40	0.4	0	0.3	3.7
HORIZON 270	**89.8**	**30.4**	**3.8**	**5.0**	**93**	**38**	**1.7**	**0**	**1.5**	**4.6**
TX05CS347-1	88.4	31.6	2.8	3.0	98	39	1.0	0	1.8	3.8
LA03046SBS7-B-S1	87.8	31.3	3.5	5.5	95	38	1.0	0	1.3	4.2
LA97006GSB-59-2-4-SBS1	84.4	30.9	3.3	5.0	95	37	1.9	0	1.5	4.5
LA99017	**84.0**	**30.9**	**2.3**	**3.0**	**97**	**46**	**1.4**	**0**	**1.3**	**4.7**
LA99016	**83.7**	**31.3**	**2.3**	**3.0**	**95**	**44**	**3.0**	**0**	**1.8**	**4.4**
HORIZON 201	**83.0**	**30.3**	**2.7**	**3.5**	**94**	**43**	**4.6**	**0**	**2.3**	**4.8**
FL99153FBS-45-1-B-S-B-S1-B-S1	82.5	32.9	4.3	3.0	98	38	1.9	0	0.5	4.3
HORIZON LA976	**81.8**	**32.6**	**3.5**	**4.5**	**95**	**42**	**5.6**	**0**	**1.0**	**4.1**
TX02U7682	80.2	30.4	3.7	4.0	90	38	2.3	0	1.0	4.5
LA03063SBSBSB-S4	78.8	29.8	3.0	4.5	88	35	1.1	0	1.5	4.5
PLOT SPIKE LA9339	**77.2**	**31.0**	**2.2**	**4.0**	**100**	**44**	**2.3**	**0**	**1.3**	**4.2**
BROOKS	**56.6**	**26.8**	**2.0**	**3.5**	**94**	**42**	**8.0**	**80**	**1.5**	**4.9**
Mean	**82.0**	**30.8**	**3.0**	**4.0**	**95**	**40**	**2.6**	**6**	**1.3**	**4.4**
CV%	**15**	**3**	**19**	**9**	**3**	**6**	**70**	**38**	**72**	**10**
LSD (0.10)	**13.0**	**1.4**	**1.2**	**0.6**	**2**	**2**	**1.6**	**3.5**	**1.7**	**NS**

Data from Baton Rouge, Bossier City, and Winnsboro, LA for 2009 and 2010.

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

Lodging and Stem Rust: 0 = none, 9 = severe.

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

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

Growth Habit: 0 - very upright spring habit; 9 = prostrate winter growth habit.

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

Phenotype is a relative 'visual appeal' rating that takes into account plant vigor, diseases, etc. 0 = best.

Table 23. Oat variety trial across Louisiana for three years, 2008, 2009 and 2010.

Brand / variety	Grain Yield	Test Wt	Wint Stress	Leaf iness	Head Day	Plant Ht	Lod Score	Crown Rust	Stem Rust	Pheno type
	bu/a	lbs/bu	0-9	0-9	of yr	in	0-9	%	0-9	0-9
HORIZON 270	**101.8**	**31.4**	**3.8**	**5.6**	**91**	**38**	**1.0**	**0**	**1.7**	**4.5**
LA03046SBS7-B-S1	98.8	32.5	3.5	5.3	94	38	0.7	0	1.3	4.3
LA97006GSB-59-2-4-SBS1	96.3	31.9	3.3	4.8	94	38	1.2	0	1.4	4.3
LA99016	**95.0**	**32.6**	**2.3**	**3.4**	**95**	**46**	**1.7**	**0**	**1.9**	**4.3**
FL99153FBS-45-1-B-S-B-S1-B-S1	94.7	34.0	4.3	3.4	97	39	1.1	0	1.0	4.2
TX02U7682	**94.6**	**31.5**	**3.7**	**4.3**	**89**	**40**	**1.4**	**0**	**1.0**	**4.4**
HORIZON LA976	**93.0**	**33.3**	**3.5**	**4.3**	**95**	**43**	**3.2**	**0**	**1.6**	**3.8**
HORIZON 201	**92.3**	**31.2**	**2.7**	**3.5**	**93**	**45**	**2.9**	**0**	**2.6**	**4.7**
LA99017	**92.1**	**31.7**	**2.3**	**3.5**	**98**	**48**	**0.8**	**0**	**1.6**	**4.6**
PLOT SPIKE LA9339	**85.9**	**31.7**	**2.2**	**3.9**	**101**	**44**	**1.2**	**1**	**2.3**	**4.4**
BROOKS	**57.9**	**27.5**	**2.0**	**4.1**	**94**	**44**	**7.1**	**75**	**2.9**	**5.0**
Mean	**91.1**	**31.8**	**3.1**	**4.2**	**95**	**42**	**2.0**	**7**	**1.7**	**4.4**
CV%	**13**	**3**	**20**	**9**	**1**	**6**	**67**	**44**	**46**	**10**
LSD (0.10)	**11.9**	**1.3**	**NS**	**0.9**	**2**	**2**	**1.1**	**4**	**NS**	**NS**

Data from Baton Rouge 2008 and Baton Rouge, Bossier City and Winnsboro, LA for 2009 and 2010.

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

Lodging and Stem Rust: 0 = none, 9 = severe

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

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

Phenotype is a relative 'visual appeal' rating that takes into account plant vigor, diseases, etc. 0 = best.

Table 24. Oat variety trial at Baton Rouge, LA in 2010.

Brand / variety	Grin Yield	Test Weight	Winter Stress	Head Day	Stem Rust	Pheno type
	bu/a	lbs/bu	0-9	of yr	0-9	0-9
FL0115-J2	79.5	31.5	3.5	103	0.0	4.0
FL99153FBS-45-1-B-S-B-S1-B-S1	74.7	31.9	5.0	104	0.5	4.5
HORIZON 270	**74.6**	**30.1**	**5.0**	**100**	**2.5**	**5.8**
LA03063SBSBSB-S4	72.3	31.0	4.5	95	1.5	5.3
LA03046SBS7-B-S1	71.4	31.3	4.5	102	1.5	4.5
LA03063SBSBSB-6	71.2	33.5	5.5	94	1.5	5.3
HORIZON LA976	**69.8**	**31.5**	**4.5**	**102**	**1.5**	**4.8**
HORIZON 201	**69.6**	**30.0**	**6.0**	**100**	**1.0**	**5.0**
LA05006GSBS-65-S1	68.4	29.8	4.5	103	1.5	4.3
FL0522-FLID-B-S-B-S-92-S1	68.3	33.2	4.0	100	0.5	4.0
LA97006GSB-59-2-4-SBS1	67.9	30.9	4.5	103	1.5	4.5
LA06059SBS-84-S1	67.3	29.7	4.5	100	1.0	4.3
LA99016	**65.0**	**30.2**	**4.0**	**102**	**2.0**	**4.5**
TX05CS347-1	63.0	29.0	5.0	103	1.0	4.0
TX02U7682	62.1	31.5	5.5	99	1.5	5.5
LA99017	**61.9**	**29.4**	**4.5**	**104**	**2.0**	**4.8**
FL03053-S06-15-B-S1B	61.7	30.0	4.5	100	1.0	5.0
FL04155-S06-31-B-S1	61.1	32.0	4.0	100	0.0	4.3
PLOT SPIKE LA9339	**57.6**	**28.4**	**4.5**	**107**	**1.0**	**4.0**
BROOKS	**56.7**	**26.5**	**4.0**	**103**	**2.0**	**4.3**
FL03167BSB-145	52.0	30.5	5.0	100	1.5	5.0
LA04004SBSB-113	50.1	30.0	5.5	102	2.0	5.5
FL0046-E7	49.5	31.1	5.0	100	2.0	5.3
LA04023-L3	44.7	29.7	6.0	104	1.0	5.3
Mean	**64.2**	**30.5**	**4.7**	**101**	**1.3**	**4.7**
CV%	**16**	**2**	**14**	**1**	**50**	**8**
LSD (0.10)	**12.4**	**0.9**	**1.2**	**2**	**1.1**	**0.7**

Data from Ben Hur Research Farm. Baton Rouge, LA. S. Harrison, K. Arceneaux, G. Schexnayder, and K. McCarthy.

Cultural and Site: Planted: 11-19-2009. Harvested: 5-12-2010. 50-0-0 topdress N on 2-3-2010 plus 35-0-0 on 3-3-2010. Very wet (~20" rain) January - February reduced tillering. Very dry March - April (1.2" rain) hastened maturity and resulted in low test weights.

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

Lodging: 0 = none, 9 = severe

Table 25. Oat variety trial at Bossier City, LA in 2010.

Brand / variety	Grin Yield	Test Weight	Winter Stress	Head Day	Plant Ht
	bu/a	lbs/bu	0-9	of yr	in
LA05006GSBS-65-S1	70.0	28.6	2.0	104	39
HORIZON 201	**69.8**	**27.3**	**1.0**	**102**	**42**
PLOT SPIKE LA9339	**69.6**	**32.3**	**1.0**	**105**	**42**
LA99017	**65.9**	**27.9**	**1.3**	**105**	**43**
HORIZON LA976	**64.2**	**29.3**	**3.0**	**104**	**40**
TX05CS347-1	63.4	29.7	1.8	112	38
FL0522-FLID-B-S-B-S-92-S1	60.0	28.5	2.3	103	41
LA99016	**59.4**	**27.1**	**1.5**	**104**	**43**
FL0115-J2	58.0	27.3	1.0	103	38
LA03046SBS7-B-S1	54.5	28.5	3.0	103	37
LA04004SBSB-113	53.8	26.6	2.0	102	40
FL04155-S06-31-B-S1	53.5	27.2	2.3	103	40
HORIZON 270	**50.3**	**26.7**	**3.3**	**103**	**38**
LA97006GSB-59-2-4-SBS1	49.9	28.4	2.8	103	36
LA04023-L3	47.8	27.1	1.3	103	42
BROOKS	**46.7**	**25.4**	**1.0**	**103**	**43**
FL99153FBS-45-1-B-S-B-S1-B-S1	45.3	29.4	4.0	104	36
FL0046-E7	45.2	26.6	2.5	102	42
LA06059SBS-84-S1	42.6	25.2	1.8	102	36
FL03053-S06-15-B-S1B	41.6	27.3	3.5	102	40
FL03167BSB-145	40.7	26.6	1.3	102	39
LA03063SBSBSB-6	34.8	24.3	3.8	101	36
LA03063SBSBSB-S4	34.4	22.7	2.3	101	36
TX02U7682	34.0	24.8	2.8	101	38
Mean	**52.3**	**27.3**	**2.2**	**103**	**39**
CV%	**22**	**6**	**22**	**3**	**5**
LSD (0.10)	**13.7**	**1.9**	**0.6**	**4**	**2**

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

Lodging: 0 = none, 9 = severe

Table 26. Oat variety trial at Winsboro, LA in 2010.

Brand / variety	Grin Yield	Test Weight	Head Day	Plant Height	Lodging Score
	bu/a	lbs/bu	of yr	in	0-9
FL99153FBS-45-1-B-S-B-S1-B-S1	92.9	36.4	102	26	2.5
LA03046SBS7-B-S1	78.1	33.2	104	30	0.5
FL0046-E7	74.3	31.3	100	32	4.5
LA04004SBSB-113	71.6	34.9	102	28	0.5
TX02U7682	69.4	32.8	100	29	1.5
LA97006GSB-59-2-4-SBS1	67.2	32.2	105	29	0.0
PLOT SPIKE LA9339	**67.1**	**32.3**	**105**	**34**	**1.0**
FL04155-S06-31-B-S1	65.8	32.9	102	32	2.5
FL0522-FLID-B-S-B-S-92-S1	65.3	35.6	104	30	1.0
HORIZON 201	**65.1**	**30.6**	**102**	**31**	**5.5**
FL0115-J2	65.1	32.1	102	29	0.5
LA03063SBSBSB-S4	64.5	30.9	97	27	2.0
LA04023-L3	63.9	32.4	104	33	1.0
TX05CS347-1	63.8	33.3	106	28	1.0
LA99016	**63.3**	**32.9**	**105**	**34**	**1.5**
FL03167BSB-145	62.2	31.7	97	28	2.5
FL03053-S06-15-B-S1B	61.8	32.0	104	30	1.5
LA06059SBS-84-S1	61.8	32.0	102	26	1.5
LA05006GSBS-65-S1	61.7	34.7	104	30	1.5
HORIZON 270	**59.9**	**31.6**	**103**	**28**	**1.0**
LA99017	**59.4**	**31.7**	**105**	**32**	**1.0**
LA03063SBSBSB-6	58.4	34.5	97	28	1.0
HORIZON LA976	**56.4**	**33.6**	**103**	**30**	**2.5**
BROOKS	**54.7**	**28.0**	**105**	**31**	**6.5**
Mean	**65.6**	**32.7**	**102**	**30**	**1.9**
CV%	**19**	**3**	**1**	**10**	**63**
LSD (0.10)	**15.7**	**1.4**	**2**	**NS**	**2.0**

Cultural and Site: Planted 11-10-2009. Harvested 5-28-2010. 70 lb N topdress on 2-17-2010. 0.47 oz/acre Amber on 1-14-2010.

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

Lodging: 0 = none, 9 = severe.

Table 27. 2009-10 USDA Uniform Winter Oat Yield Nursery at Baton Rouge, LA.

Cooperator: S Harrison, K. Arceneaux, K McCarthy, G Schexnayder **No. Reps: 3** **Plot size (ft2): 70** **Plant: 11-19-09** **Harv: 5-24-10**

Entry	Designation	Grain Yield		Test weight	Grow Habit	Head Day	Wint Stress	Leaf iness	Plt Ht	Lodging	Crown rust	Stem Rust	Pheno type
		bu/A	rnk	lb/bu	0-9	of yr	0-9	0-9	in	0-9	%	0-9	0-9
1	Rodgers	78.3		27.3		103.0						1.7	5.0
2	TAMO 406	67.1		31.4		100.5				NONE		1.3	4.0
3	Horizon 201	77.9		29.5		100.0						1.7	5.0
4	Horizon 270	83.5		30.4		100.0						1.7	5.3
5	FL0115-J2	100.2		33.0		100.5						0.0	3.0
6	FL03166-L7	69.7		32.3		100.5						1.3	4.3
7	FL03211-L1	78.1		31.0		102.5						0.7	4.3
8	FL04126-L4	69.4		29.4		102.5						2.0	4.7
9	LA04003S-L3	81.6		32.0		103.5						0.0	4.0
10	FL03053-S06-15-B-S1B	78.3		30.0		101.5						5.3	4.5
11	FL04155-S06-31-B-S1	69.0		31.7		100.0						0.3	4.7
12	LA02065SBSBSBSB-88	81.0		31.0		101.5						1.3	4.7
13	LA03046SBS7-B-S1	67.6		30.9		101.0						1.7	3.7
14	LA03063SBSBSB-S4	91.6		31.4		95.5						1.3	4.0
15	NC05-5460y	75.2		30.5		101.5						3.3	5.7
16	NC07-3843y	50.8		26.2		107.5						2.0	4.0
17	NC07-3972y	69.9		27.7		108.0						1.0	3.7
18	TX05CS347-1	76.8		29.5		102.0						2.0	4.7
19	TX05CS542	78.8		31.0		94.5						3.0	5.3
20	TX05CS556	84.2		32.4		96.0						2.7	5.0
21	TX07CS2765	76.9		30.3		98.0						1.7	4.3
22	TX07CS2783	78.4		27.3		99.0						0.0	3.7
23	TX07CS3697	84.0		30.2		103.5						1.7	4.7
	Mean	**76.9**		**30.3**		**101.0**						**1.6**	**4.4**
	CV%	**9**		**3**		**1**						**105**	**13**
	LSD (0.10)	**10.0**		**1.2**		**1.7**						**2.4**	**0.8**

Comments:

Growth Habit is mid-winter rating where 0 = very upright spring type and 9 = very prostrate winter type.

Stem Rust rating of 0 = none; 9 = very severe

Winter Stress is a visual rating of degreee of mid-winter red/purpling/yellowing. 0 = no discoloration; 9 = severe.

Leafiness is average of 2 mid-winter ratings: 0 = very leafy, 9 = few leaves.

Phenotype: 0 = excellent visual appearance; 5 = average; 9 = very poor; average of 4 ratings across spring.

Appendix A. Entries in the 2010 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Brand	Line/Variety	Originating Agency
WHEAT		
Syngenta	Coker 9553, Coker 9700, Magnolia, Oakes..……..	Syngenta Seeds, Inc. 778 CR 680 Bay, AR 72411
AGS	AGS 2026, 2031, 2035, 2060.....	AGSouth Genetics P.O. Box 72246 Albany, GA 31708
Croplan	Croplan 8302. …….....	Croplan Genetics 301 Crocker Rd. Choudrant, LA 71227
Delta Grow	Delta Grow 1600, 5000, 5900, 8300.....	Delta Grow Seed Co. P.O. Box 219 England, AR 72046
Dixie	Dixie 427, 454…….…….....	Cache River Valley Seed, LLC P.O. Box 10 Cash, AR 72421
DK	DK 9108, 9577, X909, ARX9304.....	Cullum Seeds, LLC P.O. Box 178 Fisher, AR 72429
Dyna-Gro	Baldwin, Oglethorpe.....	Dyna-Gro Seed 6221 Riverside Drive, Suite One Dublin, OH 43017
GA	All numbered GA/UGA lines……..... .	Georgia Agric. Experiment Stn. Crop & Soil Science - UGA 1109 Experiment St. Griffin, GA 30223
JGL	51585, 60172, 72562.....	JGL, Inc. 3540 S. US 231 Greencastle, IN 46135
LA	All numbered LA lines,…….....	Louisiana Agric. Experiment Stn. SPESS - LSU Baton Rouge, LA 70803

Appendix A. Entries in the 2010 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Brand	Line/Variety	Originating Agency
WHEAT		
Pioneer	26R61, 26R87, …….....	Pioneer Hi-Bred International, Inc. 700 Boulevard South, Suite 302 Huntsville, AL 35802
Progeny	Progeny 117, 125, 166, 185……..Progeny Ag Products	1529 Hwy. 193 South Wynne, AR 72396
Terral	LA821, LA841, TVX8581, TVX8861…….....Terral Seed, Inc.	P.O. Box 826 Lake Providence, LA 71254
USG	USG 3120, 3201, 3295, 3438, 3555..... UniSouth Genetics, Inc.	2640-C Nolensville Road Nashville, TN 37211
VA	Jamestown…….... Virginia PI & State University	EVAREC 2229 Menokin Road Warsaw, VA 22572

Appendix A. Entries in the 2010 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, Horizon 270…….....	Plantation Seed P.O. Box 398 Newton, GA 39870
Plot Spike	LA9339, LA 99016.....	Ragan & Massey, Inc. 100 Ponchatoula Parkway Ponchatoula, LA 70454
TAMO/TX	TX02U7682, TX05CS347-1……..….....	Texas AgriLife Research TAMU - Commerce Dept. of Ag Science Commerce, TX 75429