

2024 SMALL GRAIN PERFORMANCE TRIALS

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Performance of Small Grain Varieties in Louisiana, 2023-2024

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Introduction

Small grain variety trials are conducted annually by scientists of the Louisiana State University Agricultural Center Agricultural Experiment Station (LSUAC) to evaluate grain yield, agronomic performance, and disease reaction of varieties and advanced breeding lines. The trials are conducted at seven LSU AgCenter 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 breeder or company. Inclusion of an entry in the trials does not constitute an endorsement. The north Louisiana wheat trial included 36 released varieties (bold font in tables), 21 experimental lines (normal font in tables), and three seed treatment checks. There were 38 entries in the south Louisiana performance trials.

New entries in the statewide trials are tested in the north Louisiana trial and in a south Louisiana vernalization trial, unless prior testing in other Baton Rouge nurseries indicates an entry is adapted to south Louisiana, in which case it is also tested in the south Louisiana variety trial. South Louisiana consists of the Baton Rouge, Crowley and Jeanerette locations, whereas north Louisiana consists of locations at Alexandria, Bossier City, St. Joseph and Winnsboro.

When choosing varieties, growers should consult their local extension agents and choose varieties based on two-year data within a region, not based on a single year or location. Fusarium headblight reaction should also weigh heavily in variety choice as this disease is difficult to control and frequently contributes to loss of yield and economic value.

Growers should also consider specific data from the LSU AgCenter variety trial location that most closely matches the weather and soil conditions of their farm and should avoid growing a single variety on a large acreage. Growing several varieties helps to hedge against losing the entire crop to chance occurrences in weather or shifts in pathogen or pest races or virulence patterns. Yield, test weight, maturity, and disease resistance are important traits to consider when selecting varieties. If a grower plans to plant wheat early, he should avoid varieties that have a very early heading date in order to reduce the danger of freeze damage. Specific management and cultural practices for a location are presented at the bottom of the tables, along with unusual or key observations about that test. All plots were seeded at the recommended rate with seed provided by the originating agency or company (**Appendix A**).

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Characteristics 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 (LSDs)** are reported at the 10% probability level. An LSD of 10% probability ($\alpha=0.10$) is the level of difference in a trait (like yield) that occurs between two varieties once in every 10 comparisons as a result of random chance due to greater soil fertility, better drainage, slightly greater harvest length, or any other “uncontrollable or unmeasurable factors” in the test, even if the varieties had the same genetic yield potential. If the LSD (0.10) for yield in a trial is 7.0 bu/acre, 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 that 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, stripe rust and oat crown rust are reported as percentage of the upper two leaves affected by the disease. Two replications are evaluated for leaf and stripe rust, between flowering and the early dough stage of kernel

development. Wheat and oat stem rust 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, Septoria leaf and glume blotch are rated on a scale of 0 to 9 during the dough stage of development. A rating of 0 indicates that no disease was present, while a 9 indicates very severe disease. The upper few leaves, heads, and stems below the head are the portions rated for these diseases. Since bacterial streak (black chaff) is not controlled by fungicides, it is important that this disease be distinguished from Septoria 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.

Fusarium headblight is rated on a 0-9 scale in yield plots and in inoculated, misted nurseries. A seed sample is rated for percent Fusarium damaged kernels (FDK) and then submitted to the U.S. Department of Agriculture Wheat DON Lab at the University of Minnesota to determine deoxynivalenol toxin (DON) concentration. The same procedure is followed for the misted nurseries except that samples are hand harvested and processed to avoid blowing out small, scabby seed.

A Fusarium index is calculated as $(2 \times \text{field rating divided by the mean rating of all entries}) + (2 \times \text{FDK \% divided by the mean FDK rating of all entries}) + (3 \times \text{DON divided by the mean of all entries})$. FHB reaction type is based on this FHB index.

Traits and Rating Scales for LAES Wheat and Oat Performance Trials.

Trait	Abbrev.	Description
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.
Yield	BUPA	Grain yield in bushels per acre adjusted to 13% moisture.
Fusarium DON toxin	DON	DON in ppm is determined at the USDA mycotoxin lab in Minneapolis. NIV is a similar compound to DON and is more common in south Louisiana.
Fusarium damaged kernels	FDK	FDK is measured as the percent of grains shriveled and discolored by FHB.
Fusarium headblight	FHB	FHB is rated in the field on a scale of 0-9, where 0 indicates no disease and 9 indicates severe disease on the head.
Fusarium index	FHBI	Is a numerical rating of Fusarium resistance calculated by converting FHB, FDK and DON to a proportion of the test mean and then giving 2x weight to FDK and 3x weight to DON. FHB Index = $2 \times [(FHB \text{ field rating divided by the test mean rating}) + (2 \times FDK \% \text{ divided by the test mean}) + (3 \times DON \text{ ppm divided by the mean})]$. With this scale, 10 is exactly average FHB, FDK and DON, 5 is 50% of average and 30 is 300% of average FHBI.
Growth habit	GH	Normally taken on oat trials where a lower number indicates earlier and more upright growth habit and a high number indicates a prostrate growth habit during early or mid-winter. Higher numbers may be indicative of winter hardiness.
Heading day	HD	Day of calendar year (days after Dec. 31) at 50% heading.
Plant height	HT	Plant height in inches to top of head.
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	LRFUST	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.
Fusarium NIV toxin	NIV	NIV in ppm is determined at the USDA mycotoxin Lab in Minneapolis and is similar to DON.
Phenotype	PHE	Phenotypic rating, an overall visual rating prior to harvest. 0=poor, 9=excellent. This rating is a visual rating of "eye-appeal."
Relative maturity	RELMAT	Relative Heading Date on a 0-9 scale where a lower number is earlier, taken after flag leaf stage and before maturity. Normally taken for trials that are not rated every week due to distance.
Seed quality	SDQ	Visual quality rating on a 0=poor to 9=excellent scale based on plumpness, uniformity and color.
Septoria	SEPT	Septoria leaf and 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.
Stripe rust	STRIPE	Percent of upper two leaves affected by stripe rust, rated between flag leaf and mid grain fill.
Test weight	TWT	Volume weight of grain in pounds per bushel
Vernalization	VERN	An indication of the degree of heading when not all varieties head properly. Rated on a scale of 0-9, where a higher number indicates more normal heading and a lower number indicates heads emerged unevenly or not at all.

Growing Conditions and General Comments for 2023-2024

The 2023-2024 growing season was generally good despite heavy rainfall totals from November through January. All wheat and oat tests were successfully planted and harvested at all locations on time and data reported, except for Bossier City and St. Joseph wheat data, which were discarded due high CVs and Bossier City and Alexandria oat data, which were discarded due to severe lodging. Several days of temperatures in the high teens in late January resulted in minor damage at some locations. Oat trials in Baton Rouge were lost to Pythium root rot that occurred after heavy rains in late December/early January.

Performance of Wheat Varieties Across South Louisiana

South Region Means

All three south Louisiana locations had good trials in 2024. As a result of high rain values, disease pressure varied by location with significant stripe rust in Baton Rouge, high leaf rust pressure in Crowley and high tan spot pressure in Jeanerette. The Fusarium headblight misted nursery in Baton Rouge was lost due to heavy rainfall after planting that resulted in poor stands. There was significant lodging at Crowley, and all entries at all locations received sufficient vernalization hours.

LA19333NDH-31 had the highest yield of 35 entries across south Louisiana (Table 1). Yield ranged from 58.8 to 86.2 bushels per acre with a mean of 73.0 bushels per acre. The entries Progeny #Chad, GA151313-20E48, AGS 2055, AGS 3022 and LA17006LDH042 all had yields above 81.0 bushels per acre. The average test weight was 55.5 pounds per bushel with a range of 52.5 to 57.3 pounds per bushel. Stripe rust ratings ranged from 0.0% to 50.0% with a mean of 2.9%.

Two Years

AGS 3022 had the highest two-year mean yield across south Louisiana (78.2 bushels per acre) followed by Dyna-Gro 9332 with a mean yield of 74.3 bushels per acre (Table 2). Both entries had stripe and stem rust ratings of 0. Over the past two years at Baton Rouge, stripe rust levels were high in 2024, and stem rust levels were high in 2023.

Three Years

AGS 3022 (81.0 bushels per acre) had the highest average yield of 11 entries followed by Delta Grow 9332 over three years in south Louisiana (Table 3). Both entries had test weights well above the mean of 55.8 pounds per bushel and were resistant to stripe and stem rust.

Baton Rouge

Thirty-five entries were tested in Baton Rouge for 2024 (Table 4). The Louisiana experimental line LA13176CB-15-1-3 had the highest yield (89.8 bushels per acre) compared to the mean of 77.3 bushels per acre. The next three highest-yielding entries, all commercial varieties, AGS 3022, Dyna-Gro 9332 and Pioneer 26R94, had yields of 88.0 bushels per acre or above. The average test weight was 56.1 pounds per bushel. Stripe rust pressure was relatively light with only four entries over 5% severity.

Crowley

Yields were less than Baton Rouge with a mean of 77.0 and a yield range of 51.6 to 94.8 bushels per acre (Table 5). The breeding line, GA151313-20E48, had the highest yield and a test weight slightly below the mean. Progeny #Chad, AGS 2055 and LA19333NDH-31 also yielded over 91.0 bushels per acre. The average test weight was 56.8 pounds per bushel. Lodging was moderate and leaf rust pressure was very high at Crowley in 2024.

Leaf rust pressure was quite high in Crowley with a mean of 20% severity and a high of 90% severity.

Jeanerette

Jeanerette had a mean yield of 64.9 bushels per acre and a range of 48.6 to 83.8 bushels per acre (Table 6). The experimental line LA19333NDH-31 had the highest yield, followed by three other experimentals, LA17179SSP-32-3, FLGA111151-55 and GANC12915-167-21E3, all with yields above 75.0 bushels per acre. Test weights at Jeanerette ranged from 50.0 to 56.9 pounds per bushel, with a mean of 53.7 pounds per bushel. Tan spot severity was moderate, with a mean of 4.7 (0-9 scale).

Performance of Wheat Varieties Across North Louisiana

North Region Means

The trials at Bossier City and St. Joseph are not reported due to high CV (unexplained variation) that makes the data unreliable. Trials were conducted with and without fungicide at Alexandria and Winnsboro (Table 7). On average fungicide application increased yield by only 1.3 bushels per acre in north Louisiana, however some varieties yielded higher without fungicide. The lack of fungicide response is due to low disease pressure and is confounded by spatial variation in the field that is confounded with fungicide blocks..

With Fungicide

The trials at Alexandria and Winnsboro produced high yields with an average 72.5 bushels per acre ranging from 57.6 to 81.9 bushels per acre (Table 7). The top five yielding varieties in north Louisiana with fungicide were Dyna-Gro 9172, Progeny #Buster, Progeny #Bingo, Agrimaxx 535 and LA18003-NDH119. Test weights ranged from 54.1 to 58.8 pounds per bushel with an average of 56.2 pounds per bushel. Progeny #Buster and LA18003-NDH119 had top five yields, above average test weights and excellent stripe and Fusarium resistance.

Without Fungicide

The average yield with no fungicide across north Louisiana was 71.2 bushels per acre with a range of 57.9 to 85.2 bushels per acre (Table 7). The top five yielding varieties in north Louisiana without fungicide were Agrimaxx 492, GA15490ID-19-5-21LE2, Delta Grow 1200, Delta Grow 3500 and Progeny #Chad. Test weight ranged from 53.1 to 56.8 pounds per bushel with an average of 56.2 pounds per bushel.

Leaf rust pressure was heavy at Alexandria with an average severity of 8.4% and a range of 0% to 72%.

Two Years

Twenty-nine entries tested in north Louisiana without fungicide for two years averaged 77.1 bushels per acre and ranged from 59.2 to 90.1 bushels per acre (Table 8). Agrimaxx 492 had the highest two-year average yield, followed by AGS 2055, Delta Grow 1900, USG 3354 and Progeny #Chad. The two-year average test weight was 56.3 pounds per bushel and ranged from 53.0 to 58.7 pounds per bushel.

Three Years

Sixteen entries tested in north Louisiana without fungicide for three years averaged 79.0 bushels per acre and ranged from 73.5 to 89.7 bushels per acre (Table 9). Agrimaxx 492 had the highest two-year average yield, followed by AGS 2055, Progeny #Chad, Delta Grow 1200 and Progeny #Bingo. Three-year average test weight was 55.6 pounds per bushel and ranged from 53.8 to 57.6 pounds per bushel.

Alexandria

At Alexandria fungicide application increased grain yield by an average of 5.4 bushels per acre. The average yield in the fungicide protected split at Alexandria was 60.1 bushels per acre with a range from 43.3 to 74.6 bushels per acre (Table 10). Progeny Bingo was the highest-yielding fungicide treated entry in Alexandria. Progeny #Buster and Agrimaxx 535 also both had yields over 70 bushels per acre. Test weights ranged from 57.5 to 62.6 pounds per bushel with an average of 59.6 pounds per bushel. Fungicide application increased test weight by an average of 1.7 pounds per bushel.

The average yield in Alexandria trial without fungicides was 54.8 bushels per acre with a range from 28.1 to 66.1 bushels per acre. LA19333NDH-34 was the highest-yielding nonfungicide treated entry in Alexandria. GA151313-20E48 and Agrimaxx 492 also had yields over 65 bushels per acre. Test weights ranged from 53.6 to 61.3 pounds per bushel with an average of 57.9 pounds per bushel. Significant leaf rust pressure occurred at Alexandria with an average severity (nonfungicide) of 8.5%.

Bossier City

The data from Bossier City is not reported due to a high CV% that indicates the data is not reliable.

St. Joseph

The data from St. Joseph is not reported due to a high CV% that indicates the data is not reliable.

Winnsboro

Yields were excellent at Winnsboro with an average in the fungicide split of 84.0 bushels per acre with a range from 71.6 to 100.2 bushels per acre (Table 11). Dyna-Gro 9172 was the highest-yielding fungicide treated entry in Winnsboro. LA18003-NDH119 and Delta Grow 1900 also both had yields over 95 bushels per acre. Test weights were low at Winnsboro due to postmaturity rainfall. Test weights ranged from 52.4 to 56.6 pounds per bushel with an average of 54.1 pounds per bushel.

The nonfungicide split had a lower average yield than the fungicide split primarily due to field position effects. The fungicide and nonfungicide splits are in blocks separated in the field and the fungicide block was not as well drained. The average nonfungicide treated yield in Winnsboro was 87.5 bushels per acre with a range from 69.8 to 104.5 bushels per acre. Agrimaxx 492 was the highest-yielding nonfungicide treated entry in Winnsboro. LA13176CB-15-1-3, Delta Grow 3500 and Dyna-Gro Riverland all had yields over 98 bushels per acre. Test weights ranged from 53.1 to 56.4 pounds per bushel with an average of 54.6 pounds per bushel.

Fusarium Headblight Screening Results

Table 12 contains the FHB reaction type and data of all entries tested in north Louisiana. Entries tested for two or more years are classified as Resistant, Moderately Resistant, Moderately Susceptible or Susceptible based on the Fusarium headblight Index value over two or three years.

FHB Index is calculated as: $2*(A + 2*B + 3*C)$ where:

A = FHB rating divided by the mean FHB rating.

B = FDK percent divided by the mean FDK percent.

C = DON ppm divided by the mean DON ppm.

The FHB Index gives more weight to DON and FDK since they are the standard by which grain is judged at the elevator.

Table 12 has values for FHB, FDK and DON for one, two and three years from the misted nursery in Alexandria and Winnsboro for all entries in the north Louisiana variety trial. The table is split up into three groups. The first group is entries with three years of data, the second group is entries with two years of data and the third group consists of entries with data only from 2024. All data from 2024 was only taken from the Alexandria trial, due to strong confounding of ratings with heading date at Winnsboro. NIV (nivalenol) was measured by the USDA Lab in 2023 from seed in the Alexandria and Baton Rouge misted nurseries. NIV is similar to DON but is found more commonly in south Louisiana, particularly in the rice growing region.

Delta Grow 1800, Delta Grow 1900, Progeny #Turbo, and LA18003-NDH119 were all classified as Resistant, while 15 additional varieties were classified as Moderately Resistant to FHB, five entries were classified as Moderately Susceptible, and five entries were classified as Susceptible to FHB.

The misted FHB nursery was lost in Baton Rouge this year due to heavy rains immediately after planting that resulted in poor stands.

Oat Performance Trials

The oat performance trial was not harvested in Baton Rouge this year due to a severe Pythium infection brought on by a period of extended rain during mid-winter. Stands were very patchy so yield data was not collected, however phenotypic and disease ratings were still taken on the remaining plants. Data is not reported for Bossier City or Alexandria due to high CV% resulting from bird damage and severe lodging.

Yields from Winnsboro were good with a high of 121.7 bushels per acre, a low of 50.9 bushels per acre and a mean of 95.0 bushels per acre (Table 13). The top yielding nine entries were all over 100 bushels per acre and mostly consisted of nonreleased breeding lines from Louisiana State University. There were four released varieties in the trial. The highest-yielding commercially available variety was the as-yet unbranded LA17089BSS-33-2 (100.2 bushels per acre). Test weights averaged 30.4 pounds per bushel, with a range from 24.1 to 34.8 pounds per bushel (Table 13).

Stem rust severity was high at Baton Rouge with a mean of 2.4 (0-9 scale) and a range of 0 to 7.0. Stem rust has been a yield-limiting disease in Baton Rouge for several years. Crown rust pressure was low.

Ten varieties were tested in Winnsboro (and Chase) for two years (Table 14). All other oat trials in 2023 and 2024 were lost. Yields ranged from 46.9 to 121.1 bushels per acre with a mean of 98.1 bushels per acre. The commercial varieties Savage, LA 99016 and Horizon 306 all had fairly average yields in these trials. The six highest-yielding entries are LA breeding lines and the newly released LA17089SBS-33-2 showed better than average yields and was the fourth highest yielding variety in the trials.

Crown rust severity was low except for the susceptible check variety, Brooks. Stem rust severity was moderate with a mean of 2.4 (0-9 scale). The varieties LA99016, Horizon 306 and Brook stem rust severity of 4.5 or higher.

Table 1. Wheat performance trial across south Louisiana for 2024.

Brand/Variety	Grain Yield (bu/acre)	Test Weight (lbs/bu)	Head Day (of year)	Stripe Rust (%)	Phenotype (0-9)
LA19333NDH-31	86.2	56.2	84.9	0.0	5.0
PROGENY #CHAD	84.6	53.3	82.7	0.0	5.7
GA151313-20E48	83.7	54.4	82.7	0.0	6.0
AGS 2055	81.5	55.9	89.6	0.7	5.7
AGS 3022	81.5	57.0	79.9	0.0	6.0
LA17006LDH042	81.1	57.2	83.4	0.0	5.7
LA13176CB-15-1-3	80.6	55.0	82.5	0.0	6.0
LA19333NDH-34	79.4	56.6	84.5	0.0	5.0
DYNA-GRO 9332	78.9	55.9	82.0	0.0	6.0
LA18003-NDH119	78.7	56.2	82.0	0.0	5.7
LA15203-LDH197-1-35	78.4	55.3	90.5	0.0	5.0
LA17179SSP-32-3	78.0	55.1	82.1	0.0	6.0
FLGA111151-55	77.4	55.3	84.8	6.0	5.0
PIONEER 26R94	77.1	56.7	76.4	1.7	5.0
DELTA GROW 1800	76.6	56.6	85.0	0.0	6.0
GANC12915-167-21E3	76.6	55.5	82.2	0.0	5.0
GO WHEAT 6000	76.4	54.5	78.4	0.0	4.7
AGS 4023	75.7	56.8	90.5	0.0	5.0
LA14272C-86-3-1-3	74.1	57.3	85.8	0.0	5.3
SCLA18WF0705-5	72.9	56.4	85.6	1.7	5.0
DYNA-GRO RIVERLAND	71.4	55.7	81.3	6.0	5.7
AGRIMAXX 492	71.1	55.5	89.0	0.0	5.0
SCLANC11558-33	69.1	54.6	83.6	0.0	6.0
SCLA18WF0712-12	69.1	55.7	88.9	0.0	5.0
GA15490ID-19-5-21LE2	68.3	55.5	91.2	0.0	5.0
DELTA GROW 3500	68.0	54.9	91.4	3.3	4.7
DELTA GROW 1900	67.5	53.6	94.1	0.0	5.0
DYNA-GRO PLANTATION	65.1	56.4	82.6	1.0	5.0
GA131246LDH-86-21E2	64.1	52.5	82.7	5.0	5.3
USG 3354	63.5	53.9	91.5	0.0	5.0

Brand/Variety	Grain Yield (bu/acre)	Test Weight (lbs/bu)	Head Day (of year)	Stripe Rust (%)	Phenotype (0-9)
AGS 4043	63.4	55.5	84.3	17.7	5.0
FL15020-50	60.4	54.8	83.3	50.0	3.7
FLGA111151-41	59.8	54.7	89.0	6.7	5.0
LA18003-NDH069	59.2	53.9	85.5	0.0	5.0
GA141045-9-3-2-21LE7	58.8	56.2	87.8	0.7	5.0
MEAN	73.0	55.5	85.2	2.9	5.3
CV%	10.0	2.5	1.6	<i>BR ONLY</i>	<i>BR ONLY</i>
LSD (0.10)	9.3	1.8	2.6		
R-SQUARE	0.77	0.77	0.98		

Data from Baton Rouge, Crowley and Jeanerette, Louisiana.

Bold: A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.

Phenotype: A visual appeal rating with a higher score indicating a prettier plot.

Table 2. Wheat performance trial across south Louisiana for two years.

Brand/Variety	Grain Yield (bu/acre)	Test Weight (lbs/bu)	Head Day (of year)	Lodging (0-9)	Stripe Rust (%)	Stem Rust (0-9)	Phenotype (0-9)
AGS 3022	78.2	57.3	81.1	4.8	0.0	0.0	5.9
DYNA-GRO 9332	74.3	57.2	82.9	4.9	0.0	0.0	6.0
LA17006LDH042	74.1	57.9	84.0	6.4	0.0	0.0	5.4
GA151313-20E48	72.8	56.0	82.5	3.6	0.0	0.0	5.5
PROGENY #CHAD	72.7	53.0	90.4	5.1	0.0	0.0	5.6
DELTA GROW 1800	71.5	56.9	87.0	3.5	0.0	0.0	6.0
LA18003-NDH119	70.9	56.6	83.4	5.8	0.0	0.0	5.4
AGS 2055	70.5	53.6	94.0	1.8	0.7	0.0	5.8
DELTA GROW 3500	68.5	55.6	92.0	2.4	3.3	0.0	5.3
DYNA-GRO RIVERLAND	67.9	57.0	81.9	7.0	6.0	0.0	5.3
PIONEER 26R94	67.5	56.5	77.0	5.8	1.7	0.0	4.8
GO WHEAT 6000	66.2	54.4	78.9	6.7	0.0	0.0	4.8
DYNA-GRO PLANTATION	65.2	56.0	87.3	5.0	1.0	0.0	5.4
DELTA GROW 1900	62.3	53.1	96.0	3.7	0.0	0.0	5.5
AGRIMAXX 492	61.0	55.2	92.6	7.2	0.0	2.0	5.3
MEAN	69.6	55.7	86.1	4.9	0.8	0.1	5.5
CV (%)	10.1	2.2	1.5	33.4	239.7	273.9	6.5
LSD (0.10)	8.02	1.64	3.31	ns	24BR only	23BR only	NS
R-SQUARE	0.90	0.85	0.99	0.77			0.74

Data from Baton Rouge, Crowley and Jeanerette, Louisiana.

Bold: A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.

Lod Score: Lodging score, scale of 0=none to 9=100% lodged.

Phenotype: A visual appeal rating with a higher score indicating a prettier plot.

NS: Not significant - Variety mean differences were not statistically significant.

Table 3. Wheat performance trial across south Louisiana for three years.

Brand/Variety	Grain Yield (bu/acre)	Test Weight (lbs/bu)	Head Day (of year)	Lodging (0-9)	Stripe Rust (%)	Stem Rust (0-9)	Phenotype (0-9)
AGS 3022	81.0	57.0	84.1	4.8	0.0	0.0	5.5
DYNA-GRO 9332	78.4	57.3	85.6	4.9	0.0	0.0	6.3
PROGENY #CHAD	75.8	53.3	92.0	5.1	0.0	0.0	5.5
DELTA GROW 3500	74.3	56.0	92.7	2.4	3.3	0.0	5.5
PIONEER 26R94	73.8	56.8	80.7	5.8	1.7	0.0	5.3
DYNA-GRO RIVERLAND	73.8	57.1	83.9	7.0	6.0	0.0	5.6
AGS 2055	73.3	53.9	95.3	1.8	0.7	0.0	5.5
DYNA-GRO PLANTATION	72.9	56.4	89.0	5.0	1.0	0.0	5.6
DELTA GROW 1800	72.9	56.8	90.7	3.5	0.0	0.0	5.7
GO WHEAT 6000	71.9	54.3	82.5	6.7	0.0	0.0	5.8
AGRIMAXX 492	63.9	54.4	94.0	7.2	0.0	2.0	5.7
MEAN	73.8	55.8	88.2	4.9	1.2	0.2	5.6
CV%	8.8	2.0	1.3	33.3	206.9	234.5	7.8
LSD (0.10)	6.29	1.40	2.75	3.25	23BR only	24 BR only	0.62
R-SQUARE	0.90	0.87	0.99	0.78	0.54	0.80	0.80

Data from Baton Rouge, Crowley and Jeanerette, Louisiana.

Bold: A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.

Lod Score: Lodging score, scale of 0=none to 9=100% lodged.

Phenotype: A visual appeal rating with a higher score indicating a prettier plot.

Table 4. Wheat performance trial at Baton Rouge, Louisiana, for 2024.

Brand/Variety	Grain Yield (bu/acre)	Test Weight (lbs/bu)	Head Day (of year)	Stripe Rust (%)	Phenotype (0-9)
LA13176CB-15-1-3	89.8	54.7	82.3	0.0	6.0
AGS 3022	88.2	57.5	78.7	0.0	6.0
DYNA-GRO 9332	88.2	58.8	80.0	0.0	6.0
PIONEER 26R94	88.0	57.6	76.0	1.7	5.0
PROGENY #CHAD	85.2	55.3	81.3	0.0	5.7
LA17006LDH042	84.9	56.9	81.3	0.0	5.7
LA18003-NDH119	84.7	56.2	79.3	0.0	5.7
DELTA GROW 1900	84.7	55.5	91.0	0.0	5.0
GO WHEAT 6000	84.4	54.2	77.0	0.0	4.7
LA15203-LDH197-1-35	84.1	56.6	85.0	0.0	5.0
DELTA GROW 3500	84.1	55.9	84.7	3.3	4.7
LA19333NDH-34	83.3	56.7	83.7	0.0	5.0
LA19333NDH-31	82.9	56.7	84.0	0.0	5.0
LA17179SSP-32-3	82.8	55.1	78.3	0.0	6.0
AGRIMAXX 492	81.6	57.5	86.7	0.0	5.0
USG 3354	80.1	55.0	86.0	0.0	5.0
AGS 2055	79.7	56.1	88.7	0.7	5.7
GA151313-20E48	79.0	54.8	80.0	0.0	6.0
SCLANC11558-33	78.5	55.7	82.7	0.0	6.0
FLGA111151-55	77.4	56.0	83.0	6.0	5.0
DELTA GROW 1800	75.8	57.0	83.3	0.0	6.0
SCLA18WF0705-5	74.8	57.1	85.3	1.7	5.0
DYNA-GRO RIVERLAND	73.9	56.2	80.0	6.0	5.7
GA141045-9-3-2-21LE7	73.2	57.6	87.0	0.7	5.0
LA14272C-86-3-1-3	72.7	58.8	85.0	0.0	5.3
GANC12915-167-21E3	72.1	55.5	82.0	0.0	5.0
GA15490ID-19-5-21LE2	71.9	55.7	88.0	0.0	5.0
DYNA-GRO PLANTATION	71.1	56.8	82.3	1.0	5.0
SCLA18WF0712-12	69.6	56.2	83.7	0.0	5.0
AGS 4023	69.4	57.8	89.0	0.0	5.0

Brand/Variety	Grain Yield (bu/acre)	Test Weight (lbs/bu)	Head Day (of year)	Stripe Rust (%)	Phenotype (0-9)
AGS 4043	68.4	55.2	82.3	17.7	5.0
LA18003-NDH069	63.7	53.7	83.7	0.0	5.0
GA131246LDH-86-21E2	63.3	51.2	80.3	5.0	5.3
FLGA111151-41	61.9	56.2	86.0	6.7	5.0
FL15020-50	53.3		79.7	50.0	3.7
MEAN	77.3	56.1	83.1	2.9	5.3
CV%	6.3	1.0	1.9	132.5	5.9
LSD (0.10)	6.5	0.7	2.1	5.2	0.4
R-SQUARE	0.83	0.92	0.88	0.89	0.81

Central Stations Ben Hur Farm in Baton Rouge, Louisiana. Stephen Harrison, Noah DeWitt, Kelly Arceneaux, Steven Abernathy, Katie McCarthy, Chris Roider.

***Bold:** A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.*

***Lod Score:** Lodging score, scale of 0=none to 9=100% lodged.*

***Phenotype:** A visual appeal rating with a higher score indicating a prettier plot.*

***Cultural Practices:** Planted Nov. 9, 2023. Harvested May 12, 2024. Fertilizer: 0-0-60 preplant. 50-0-0-8 topdress 28-0-0-5 in early and again in late February. Zidua plus 2 oz. metribuzin in early January.*

Table 5. Wheat performance trial at Crowley, Louisiana, for 2024.

Brand/Variety	Grain Yield (bu/acre)	Test Weight (lbs/bu)	Head Day (of year)	Plant Height (in)	Lodging (0-9)	Leaf Rust (%)
GA151313-20E48	94.8	55.0	74.5	35.3	2.8	0
PROGENY #CHAD	93.0	52.8	74.0	34.8	7.3	3
LA19333NDH-31	91.8	56.6	78.0	34.5	7.0	0
AGS 2055	91.8	57.8	81.0	39.3	2.3	0
LA17006LDH042	86.3	58.7	75.3	36.5	6.8	60
DYNA-GRO 9332	84.7	54.3	73.5	38.5	6.8	43
LA19333NDH-34	84.7	58.3	75.5	37.0	2.3	0
LA15203-LDH197-1-35	84.5	57.2	83.0	37.3	2.3	3
AGS 3022	84.3	57.0	74.8	39.0	4.8	30
LA14272C-86-3-1-3	83.9	57.5	79.8	36.5	1.5	0
DELTA GROW 1800	83.6	56.1	78.3	38.8	2.5	0
AGS 4023	83.5	57.7	81.8	37.5	6.0	0
GANC12915-167-21E3	81.6	57.6	74.8	37.3	2.8	0
LA18003-NDH119	80.5	58.4	74.0	37.5	5.0	0
GA131246LDH-86-21E2	80.0	56.1	73.3	35.3	7.0	80
DYNA-GRO RIVERLAND	80.0	57.4	74.5	36.5	6.8	90
FLGA111151-55	79.4	57.6	78.0	36.0	1.8	.
LA13176CB-15-1-3	79.3	57.3	73.3	39.5	8.8	5
SCLA18WF0712-12	78.5	56.7	81.3	37.3	2.5	50
SCLA18WF0705-5	75.1	57.6	77.5	38.8	4.3	0
PIONEER 26R94	75.0	57.7	71.0	41.5	5.0	.
AGS 4043	74.6	56.5	77.0	34.0	7.5	0
AGS 6000	74.0	57.5	72.3	36.3	6.8	.
GA15490ID-19-5-21LE2	72.9	58.0	81.8	35.0	7.0	8
LA17179SSP-32-3	72.5	55.5	75.0	36.5	7.3	80
FL15020-50	71.6	58.2	76.8	36.8	3.8	0
DYNA-GRO PLANTATION	70.9	58.1	75.5	35.8	6.8	.
DELTA GROW 3500	69.0	58.1	81.8	40.5	2.5	0
AGRIMAXX 492	69.0	55.3	80.3	36.5	7.0	0
FLGA111151-41	66.2	56.9	82.0	38.3	4.5	0

Brand/Variety	Grain Yield (bu/acre)	Test Weight (lbs/bu)	Head Day (of year)	Plant Height (in)	Lodging (0-9)	Leaf Rust (%)
LA18003-NDH069	66.1	56.9	78.5	38.0	4.8	.
DELTA GROW 1900	63.8	55.7	86.8	36.8	4.5	55
SCLANC11558-33	60.7	54.3	75.5	35.0	9.0	80
USG 3354	58.9	56.3	83.3	39.0	5.8	48
GA141045-9-3-2-21LE7	51.6	57.5	81.3	39.5	6.8	80
MEAN	77.0	56.8	77.6	37.2	5.1	20
CV%	9.5	3.7	1.9	4.8	30	80
LSD (0.10)	8.7	2.6	1.7	2.1	1.8	33.1
R-SQUARE	0.72	0.37	0.90	0.59	0.73	0.90

Rice Research Station in Crowley, Louisiana. Manoch Kongchum, James Leonards, Jacob Fluitt and Boyd Padgett.

Bold: A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.

Lod Score: Lodging score, scale of 0=none to 9=100% lodged.

Phenotype: A visual appeal rating with a higher score indicating a prettier plot.

Cultural Practices: Planted Nov. 8, 2023. Harvested May 9, 2024. Fertilized 250# 0-24-24-2.8 on Nov. 19, 2023, and 50 lb N/acre as 46-0-0 on Feb. 15, 2024. Glyphosate 1.5 qt/A and Sharpen 2 oz/A on Nov. 8, 2023; Metribuzin 3 oz/A and Prowl H2O 2 pt/A on Nov. 28, 2023.

Table 6. Wheat performance trial at Jeanerette, Louisiana, for 2024.

Brand/Variety	Grain Yield (bu/acre)	Test Weight (lbs/bu)	Head Day (of year)	Plant Height (in)	Tan Spot (0-9)
LA19333NDH-31	83.8	55.6	92.5	29.8	2.8
LA17179SSP-32-3	80.6	54.5	92.0	32.3	6.3
FLGA111151-55	75.5	53.0	93.0	33.6	5.0
GANC12915-167-21E3	75.1	53.9	89.8	31.6	4.0
GA151313-20E48	73.7	53.5	93.0	26.6	6.0
AGS 3022	73.7	56.5	86.0	31.5	6.3
LA13176CB-15-1-3	73.0	53.1	92.0	34.1	3.0
PROGENY #CHAD	72.9	52.3	92.5	28.9	2.5
GO WHEAT 6000	72.8	52.4	85.5	32.1	8.0
LA18003-NDH119	72.3	54.6	92.0	34.2	6.5
DELTA GROW 1800	72.1	56.9	93.0	36.8	4.3
AGS 4023	71.7	55.1	100.5	34.1	2.3
LA19333NDH-34	71.1	55.3	94.0	34.3	3.8
SCLANC11558-33	70.9	54.0	92.5	32.3	6.0
LA17006LDH042	70.6	55.9	93.0	32.8	6.0
AGS 2055	69.7	53.4	99.0	34.3	3.0
SCLA18WF0705-5	69.3	55.0	94.0	36.0	4.0
PIONEER 26R94	69.0	55.1	82.0	36.6	7.3
LA14272C-86-3-1-3	67.9	56.0	92.5	33.5	3.5
DYNA-GRO 9332	66.1	55.4	92.0	35.1	5.3
AGRIMAXX 492	65.4	54.2	99.5	33.3	4.5
LA15203-LDH197-1-35	64.6	52.1	102.0	34.4	1.5
DYNA-GRO RIVERLAND	63.1	54.1	89.0	33.6	7.3
GA15490ID-19-5-21LE2	58.6	51.9	103.0	33.4	3.5
SCLA18WF0712-12	56.0	53.8	100.5	34.6	2.8
GA141045-9-3-2-21LE7	55.2	53.9	95.0	35.7	4.0
DELTA GROW 1900	55.2	50.0	103.8	32.0	2.0
DELTA GROW 3500	55.0	51.7	106.0	33.4	4.0
DYNA-GRO PLANTATION	54.6	54.5	90.0	32.1	5.8
USG 3354	54.4	50.7	103.8	34.6	3.0

Brand/Variety	Grain Yield (bu/acre)	Test Weight (lbs/bu)	Head Day (of year)	Plant Height (in)	Tan Spot (0-9)
FL15020-50	52.6	50.3	92.5	30.8	5.8
FLGA111151-41	51.8	52.2	98.3	34.1	6.5
LA18003-NDH069	49.1	51.1	94.0	32.8	6.8
GA131246LDH-86-21E2	48.7	50.0	94.0	30.8	7.8
AGS 4043	48.6	54.9	93.0	29.1	5.3
MEAN	64.9	53.7	94.4	33.0	4.7
CV%	13.6	1.6	1.2	3	26
LSD (0.10)	11.1	1.1	1.3	1.3	1.5
R-SQUARE	0.63	0.88	0.97	0.89	0.73

Iberia Research Station in Jeanerette, Louisiana. Greg Williams and Boyd Padgett.

Bold: A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.

Cultural Practices: Baldwin silty clay loam. Planted Nov. 20, 2023. Harvested May 21, 2024. 253N as 13-13-13 preplant; 110# N as 46-0-0 topdress on Feb. 8, 2024. Osprey herbicide preemergence; Hoelon, Axial and 2,4-D postemergence.

Table 7. Wheat performance trial across north Louisiana for 2024 (with and without fungicide).

Brand / Variety	Grain Yield (bu/a) Fung	Grain Yield (bu/a) No Fung	Grain Yield (bu/acre) Diff	Test Weight (lbs/bu) Fung	Test Weight (lbs/bu) No Fung	Test Weight (lbs/bu) Diff	Head Day (of year) Fung	Head Day (of year) No Fung	Stripe Rust (%) No Fung	Leaf Rust (%) No Fung	Phenotype (0-9) No Fung	Misted Nursery FHB (0-9)	Misted Nursery FDK (0-9)	Misted Nursery DON (ppm)
AGRIMAXX 492	74.2	85.2	-10.9	57.1	55.3	1.8	89.3	89.0	2	2	7.3	1.8	15	4.5
GA15490ID-19-5-21LE2	77.8	78.9	-1.1	57.2	55.5	1.7	90.7	92.0	1	0	6.0	2.8	35	10.2
DELTA GROW 1200	77.1	77.9	-0.8	54.7	53.5	1.2	98.0	96.0	0	0	6.3	1.0	43	5.0
DELTA GROW 3500	73.2	77.8	-4.6	55.9	54.8	1.1	95.0	91.8	1	3	6.0	2.8	38	9.2
PROGENY #CHAD	75.8	77.1	-1.3	54.5	53.5	1.0	88.0	88.0	0	0	6.3	3.3	33	6.2
AGRIMAXX 535	80.2	76.5	3.7	55.3	54.8	0.5	94.3	97.5	0	0	5.7	1.0	25	5.8
LA17006LDH042	67.6	76.4	-8.8	57.9	55.5	2.4	93.7	91.5	1	0	6.0	2.3	40	7.2
AGRIMAXX 514	77.0	76.3	0.7	54.4	53.6	0.8	99.7	95.0	0	2	6.0	0.8	28	7.1
PROGENY #BUSTER	81.0	75.9	5.2	57.0	55.6	1.5	92.3	92.5	0	5	5.7	1.3	28	5.7
DELTA GROW 1900	80.1	75.4	4.7	55.6	54.4	1.1	91.0	92.0	0	13	6.7	1.0	13	4.1
LA13176CB-15-1-3	77.5	75.3	2.2	55.8	54.6	1.2	88.7	89.3	0	0	6.3	3.3	60	8.1
LA18003-NDH119	80.2	74.8	5.4	57.2	55.0	2.2	90.0	89.3	0	5	7.0	0.8	13	2.9
PROGENY PGX 22-21	77.5	74.6	2.9	55.7	54.5	1.2	98.0	94.3	3	10	5.7	1.0	20	3.8
DYNA-GRO 9393	74.0	74.2	-0.2	56.0	54.8	1.2	92.0	95.0	0	25	6.0	1.3	25	6.3
PROGENY #BINGO	80.5	74.1	6.4	54.2	53.4	0.8	97.3	96.3	0	2	6.0	0.3	30	5.6
PROGENY PGX 22-3	77.2	73.8	3.4	55.5	54.0	1.5	94.0	92.5	0	30	6.0	1.3	13	5.3
SCLANC11558-33	66.3	73.8	-7.5	57.4	55.4	1.9	88.0	87.3	1	3	6.3	2.5	15	4.2
DYNA-GRO 9332	73.0	73.2	-0.2	58.8	56.4	2.4	90.3	90.0	2	8	7.0	2.5	50	15.5
LA19333NDH-34	67.7	73.1	-5.4	56.7	54.8	1.8	92.7	90.5	0	0	6.0	2.0	15	4.7
DYNA-GRO RIVERLAND	69.2	73.0	-3.7	57.0	55.2	1.9	88.0	87.3	18	0	6.7	3.8	53	16.8

Brand / Variety	Grain Yield (bu/a) Fung	Grain Yield (bu/a) No Fung	Grain Yield (bu/acre) Diff	Test Weight (lbs/bu) Fung	Test Weight (lbs/bu) No Fung	Test Weight (lbs/bu) Diff	Head Day (of year) Fung	Head Day (of year) No Fung	Stripe Rust (%) No Fung	Leaf Rust (%) No Fung	Phenotype (0-9) No Fung	Misted Nursery FHB (0-9)	Misted Nursery FDK (0-9)	Misted Nursery DON (ppm)
GA151313-20E48	72.1	72.8	-0.6	57.3	54.9	2.3	93.7	91.3	1	0	6.0	2.3	18	5.3
AGS 3022	75.3	72.7	2.6	57.5	55.6	1.9	88.0	87.3	0	0	6.7	2.5	13	3.1
DYNA-GRO 9290	74.9	72.4	2.5	54.7	53.8	0.9	89.3	89.5	0	43	6.3	3.0	8	3.0
GANC12915-167-21E3	66.5	72.3	-5.9	57.0	55.5	1.6	89.3	88.3	0	0	6.0	2.8	23	5.4
AGS 2055	68.2	72.3	-4.1	56.2	54.1	2.0	93.3	90.8	3	0	6.3	4.5	75	23.1
PROGENY #TURBO	77.6	72.2	5.3	56.5	54.9	1.6	91.7	90.0	0	0	6.3	1.8	13	4.6
USG 3354	75.6	72.0	3.6	54.7	54.1	0.6	88.0	87.5	10	72	6.3	1.8	30	5.7
DYNA-GRO 9593	75.4	71.8	3.5	55.1	53.9	1.3	94.0	93.0	0	40	6.0	0.8	28	8.4
PIONEER 26R59	72.9	71.8	1.2	55.3	53.7	1.6	94.0	95.0	0	23	6.0	4.8	38	13.1
AGS 4023	69.2	71.2	-2.0	58.3	55.5	2.8	91.3	90.8	2	0	6.0	3.5	30	8.4
GO WHEAT 6000	77.5	70.6	6.9	57.0	55.2	1.8	91.0	89.3	0	0	6.7	1.5	30	8.6
DYNA-GRO 9811	72.2	70.4	1.7	56.1	54.1	2.0	92.7	90.3	0	2	6.0	1.0	23	5.0
AGRIMAXX 544	68.1	70.1	-2.0	55.6	54.0	1.6	95.3	92.0	3	7	6.7	1.0	5	2.6
SCLA18WF0705-5	75.7	70.1	5.7	56.6	54.4	2.2	88.0	88.3	8	2	6.3	3.3	28	5.6
AGS 4043	63.5	69.8	-6.3	56.0	55.2	0.8	91.3	89.3	26	0	6.3	0.5	13	2.6
LA15203-LDH197-1-35	65.0	68.9	-3.9	55.6	54.1	1.5	90.0	89.3	0	0	6.3	1.3	13	3.8
PIONEER 26R94	57.6	68.7	-11.1	57.5	56.0	1.5	88.0	87.0	2	22	6.0	1.8	40	6.4
SCLA18WF0712-12	61.7	68.5	-6.8	55.3	53.8	1.6	88.0	88.0	6	0	6.3	2.0	18	4.8
DELTA GROW 1800	67.8	67.4	0.5	56.9	55.0	1.8	90.3	89.3	0	0	6.0	1.3	10	2.5
LA19333NDH-31	66.5	66.7	-0.3	56.9	54.7	2.2	89.3	89.5	0	0	5.3	3.0	10	5.2

Table continues on next page →

Table 7. Wheat performance trial across north Louisiana for 2024 (with and without fungicide). (cont.)

Brand / Variety	Grain Yield (bu/a) Fung	Grain Yield (bu/a) No Fung	Grain Yield (bu/acre) Diff	Test Weight (lbs/bu) Fung	Test Weight (lbs/bu) No Fung	Test Weight (lbs/bu) Diff	Head Day (of year) Fung	Head Day (of year) No Fung	Stripe Rust (%) No Fung	Leaf Rust (%) No Fung	Phenotype (0-9) No Fung	Misted Nursery FHB (0-9)	Misted Nursery FDK (0-9)	Misted Nursery DON (ppm)
LA17179SSP-32-3	68.4	66.7	1.8	56.1	53.9	2.2	89.3	87.5	0	0	6.7	1.3	25	5.4
GA141045-9-3-2-21LE7	75.2	65.8	9.4	57.7	55.5	2.2	93.0	92.0	0	7	6.0	2.0	33	6.1
DYNA-GRO 9172	81.9	65.3	16.6	54.1	54.0	0.1	92.7	96.0	0	20	6.0	0.5	40	6.4
LA14272C-86-3-1-3	65.7	64.9	0.8	58.7	56.0	2.7	90.7	90.0	0	0	6.0	3.5	38	11.8
PIONEER 26R45	73.7	63.9	9.9	54.6	53.1	1.5	97.7	97.3	0	17	5.7	1.3	30	5.0
DYNA-GRO PLANTATION	67.5	63.8	3.7	56.7	56.0	0.7	88.0	85.5	27	17	6.3	5.3	53	13.9
DELTA GROW 1000	69.6	63.4	6.2	54.1	54.2	-0.2	100.3	98.0	0	27	6.0	1.0	28	7.0
PIONEER 26R33	76.3	61.2	15.1	55.0	54.8	0.2	93.3	95.3	2	17	5.7	0.5	20	5.5
GA131246LDH-86-21E2	69.0	58.8	10.2	56.0	54.5	1.4	93.3	91.0	21	0	6.3	4.5	40	14.1
LA18003-NDH069	66.6	57.9	8.7	55.0	53.1	1.9	93.0	93.3	0	0	6.3	0.8	20	5.0
MEAN	72.5	71.2	1.3	56.2	56.2	0.0	92.0	91.2	2.8	8.4	6.2	2.0	27.5	6.9
CV%	12	11		1	1		3	2	158	194	7.7	45	36	33
LSD (0.10)	9.6	NS		1.4	1.4			2.2	11.3	194.3		1.5	16.3	3.8
R-SQUARE	0.79	0.89		0.97	0.94			0.87	0.84	0.54	0.5	0.79	0.82	0.87

NOTE: There was a highly significant effect of heading date on FHB sysptoms in the misted nursery. Early heading entries had lower FHB scores but higher FDK.

Only the Alexandria FHB data is presented due to very late FHB onset and strong confounding of ratings with heading date at Winnsboro.

FDK: Percent Fusarium damaged kernels from yield plots and from a misted and inoculated nursery.

DON: Parts per million mycotoxin in grain.

Bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.

NS: Not significant - Variety mean differences were not statistically significant.

Lod Score: Lodging score, scale of 0=none to 9=100% lodged.

Misted Nursery: Inoculated with scabby corn and mist irrigated to create heavy Fusarium headblight pressure.

Phenotype: Overall visual appeal with a higher score indicating a more attractive plot. Average of three ratings in spring.

FHB Score: FHB rating on a 0-9 scale with 0 indicating no FHB symptoms on heads.

Table 8. Wheat performance trial across north Louisiana for two years (no fungicide).

Brand / Variety	Grain Yield (bu/a)	Test Weight (lbs/bu)	Head Day (of year)	Lodging Score (0-9)	Leaf Rust (%)	Stripe Rust (%)	Phenotype (0-9)	Misted Nursery Head Date (of year)	Misted Nursery FHB (0-9)	Misted Nursery FDK (0-9)	Misted Nursery DON (ppm)	Misted Nursery Nivalenol (ppm)
AGRIMAXX 492	90.1	58.2	88.5	1.2	2	1.8	7.0	90.5	2.2	19	3	1.1
AGS 2055	85.0	56.8	92.0	1.8	0	3.2	6.4	95.5	4.0	50	13	4.2
DELTA GROW 1900	83.3	55.4	92.8	2.0	13	0.0	6.4	90.5	2.1	12	3	1.1
USG 3354	82.8	54.5	90.7	2.7	72	10.2	6.2	91.8	2.1	30	4	0.8
PROGENY #CHAD	82.6	54.4	91.4	2.7	0	0.2	6.4	93.8	2.4	37	3	1.0
DELTA GROW 1200	82.4	53.0	99.1	1.7	0	0.0	6.4	87.0	1.7	38	4	1.8
DYNA-GRO 9393	80.8	56.8	96.8	0.8	25	0.0	6.3	91.3	1.6	28	4	1.6
AGRIMAXX 535	80.4	55.4	97.8	2.8	0	0.2	5.8	95.8	1.3	29	4	0.9
PROGENY #TURBO	80.4	56.8	95.0	0.3	0	0.3	6.2	88.3	2.3	21	3	0.8
PROGENY PGX 22-3	80.1	56.2	93.0	2.0	30	0.2	6.2	99.0	2.3	33	5	1.9
PROGENY #BUSTER	79.8	56.3	96.7	1.8	5	0.0	6.3	96.5	1.9	23	4	0.9
AGRIMAXX 514	79.5	55.0	96.5	2.2	2	0.0	6.3	100.8	1.6	24	4	2.0
LA17006LDH042	79.2	58.7	92.0	0.2	0	0.5	5.8	90.5	2.5	30	3	0.7
PROGENY BINGO	78.8	53.1	99.3	1.5	2	0.2	6.3	100.8	1.1	38	4	1.4
PIONEER 26R59	78.5	55.1	93.5	1.3	23	0.0	6.3	96.0	3.5	36	8	0.5
DYNA-GRO 9332	78.4	58.7	89.2	0.0	8	1.7	6.2	83.3	3.4	37	10	2.4
DELTA GROW 3500	77.2	57.5	89.9	0.5	3	1.2	5.2	84.5	4.3	33	8	2.8
LA18003-NDH119	76.9	57.8	91.4	0.2	5	0.3	5.8	87.5	1.6	16	2	0.4
DYNA-GRO 9172	75.6	54.4	97.9	0.3	20	0.0	6.2	97.0	1.0	33	6	1.4
DELTA GROW 1000	74.8	53.8	97.1	0.3	27	0.0	5.9	100.0	1.4	37	4	1.1
DELTA GROW 1800	74.2	57.9	89.3	0.2	0	0.0	6.0	91.0	1.8	31	1	0.7
GA151313-20E48	73.7	57.7	91.9	0.0	0	0.5	5.3	94.7	3.0	29	3	0.7
PIONEER 26R45	73.3	53.5	98.9	3.5	17	0.0	5.9	93.5	1.5	38	3	0.7
PIONEER 26R33	72.0	55.7	95.2	5.8	17	1.8	6.0	95.3	1.4	30	5	1.7
DYNA-GRO PLANTATION	71.5	58.2	89.8	1.7	17	26.7	5.8	86.0	4.9	33	8	2.4

Table continues on next page →

Table 8. Wheat performance trial across north Louisiana for two years (no fungicide). (cont.)

Brand / Variety	Grain Yield (bu/a)	Test Weight (lbs/bu)	Head Day (of year)	Lodging Score (0-9)	Leaf Rust (%)	Stripe Rust (%)	Phenotype (0-9)	Misted Nursery Head Date (of year)	Misted Nursery FHB (0-9)	Misted Nursery FDK (0-9)	Misted Nursery DON (ppm)	Misted Nursery Nivalenol (ppm)
GO WHEAT 6000	69.3	57.6	88.4	0.0	0	0.0	5.2	88.0	1.5	28	5	0.8
DYNA-GRO RIVERLAND	68.8	57.3	85.6	0.2	0	18.3	5.4	88.0	3.9	39	8	1.7
AGS 3022	68.0	58.3	91.1	0.0	0	0.0	5.1	83.5	2.2	23	3	0.5
PIONEER 26R94	59.2	57.3	87.2	0.0	22	2.2	4.5	79.0	2.5	38	3	0.9
MEAN	77.1	56.3	93.0	1.3	10.6	2.4	6.0	91.8	2.3	30.6	4.8	1.4
CV%	11	4	5	130		212.3	8	7	31	38	46	56
LSD (0.10)	11.3	1.7	4.0	2.3		9.9	NS	8.3	0.8	NS	3.8	
R-SQUARE	0.86	0.64	0.77	0.62		0.8	0.84	0.71	0.85	0.77	0.88	0.77

NOTE: There was a highly significant effect of heading date on FHB symptoms in the misted nursery. Early heading entries had lower FHB scores but higher FDK.

Bold: A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.

NS: Not significant - Variety mean differences were not statistically significant.

Lod Score: Lodging score, scale of 0=none to 9=100% lodged.

Misted Nursery: Inoculated with scabby corn and mist irrigated to create heavy Fusarium headblight pressure.

Phenotype: Overall visual appeal with a higher score indicating a more attractive plot. Average of three ratings in spring.

FHB Score: FHB rating on a 0-9 scale with 0 indicating no FHB symptoms on heads.

FDK: Percent Fusarium damaged kernels from yield plots and from a misted and inoculated nursery.

Seed Quality (SDQ): Relative, visual rating of seed plumpness, uniformity and visible defects (disease, insect damage, etc.), 0=poor

Data from Winnsboro for 2023 and 2024, Alexandria for 2024, and Bossier City for 2023.

Table 9. Wheat performance trial across north Louisiana for three years (no fungicide).

Brand / Variety	Grain Yield (bu/a)	Test Weight (lbs/	Head Day (of year)	Lodging Score (0-9)	Leaf Rust (%)	Stripe Rust (%)	Phenotype (0-9)	Misted Nursery Head Date (of year)	Misted Nursery FHB (0-9)	Misted Nursery FDK (0-9)	Misted Nursery DON (ppm)	Misted Nursery Nivalenol (ppm)
AGRIMAXX 492	89.7	57.3	98.1	0.6	2	1	7.0	95.5	2.1	19	5	1.1
AGS 2055	83.4	55.7	101.0	1.3	0	2	6.4	100.3	3.5	51	22	4.2
PROGENY #CHAD	82.4	54.3	99.0	1.3	0	0	6.4	98.3	2.3	29	4	1.0
DELTA GROW 1200	81.5	53.9	105.5	1.2	0	0	6.4	97.2	1.2	28	5	1.8
PROGENY BINGO	80.4	53.8	105.2	0.8	2	0	6.3	105.2	0.9	28	4	1.4
PROGENY #BUSTER	79.9	56.3	102.5	0.9	5	0	6.3	101.5	1.9	20	5	0.9
PROGENY #TURBO	78.5	55.9	100.4	0.2	0	0	6.2	104.5	2.6	29	7	0.5
DELTA GROW 1800	78.4	57.1	98.2	0.1	0	0	6.0	94.2	2.1	18	3	0.8
PIONEER 26R59	78.2	54.3	102.5	0.8	23	0	6.3	95.2	1.6	25	3	0.7
DELTA GROW 1000	77.9	54.3	103.0	0.3	27	0	5.9	104.3	1.2	28	4	1.1
AGS 3022	77.6	57.3	95.8	0.1	0	0	5.1	89.0	2.4	25	5	0.5
DYNA-GRO PLANTATION	76.9	57.6	97.3	1.7	17	19	5.8	91.8	4.8	36	12	2.4
DYNA-GRO 9172	75.9	54.4	103.6	0.5	20	0	6.2	102.8	0.7	23	6	1.4
GO WHEAT 6000	75.6	56.4	93.6	0.5	0	0	5.2	93.2	2.1	25	6	0.8
PIONEER 26R45	74.3	54.3	105.6	2.3	17	0	5.9	100.0	1.2	26	4	0.7
DYNA-GRO RIVERLAND	73.5	57.1	92.7	0.2	0	13	5.4	92.0	4.3	39	12	1.7
MEAN	79.0	55.6	100.2	0.8	7.0	2.2	6.0	97.8	2.2	27.9	6.6	1.3
CV%	10	3	3	150	237	116.6	8	5	37	37	69	52
LSD (0.10)	6.9	1.1	3.0	NS		8.9	NS	5.8	0.8	13.0	6.2	
R-SQUARE	0.84	0.79	0.93	0.65	0.36	0.9	0.84	0.91	0.89	0.82	0.87	0.84

NOTE: There was a highly significant effect of heading date on FHB symptoms in the misted nursery. Early heading entries had lower FHB scores but higher FDK.

Bold: A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.

NS: Not significant - Variety mean differences were not statistically significant.

Lod Score: Lodging score, scale of 0=none to 9=100% lodged.

Misted Nursery: Inoculated with scabby corn and mist irrigated to create heavy Fusarium headblight pressure.

Phenotype: Overall visual appeal with a higher score indicating a more attractive plot. Average of three ratings in spring.

FHB Score: FHB rating on a 0-9 scale with 0 indicating no FHB symptoms on heads.

FDK: Percent Fusarium damaged kernels from yield plots and from a misted and inoculated nursery.

Table 10. Wheat performance trial at Alexandria for 2024 (with and without fungicide).

Brand / Variety	Grain Yield (bu/a) Fung	Grain Yield (bu/a) No Fung	Grain Yield (bu/acre) Diff	Test Weight (lbs/bu) Fung	Test Weight (lbs/bu) No Fung	Test Weight (lbs/bu) Diff	Head Day (of year) No Fung	Plant Height (in) No Fung	Lodging (0-9) No Fung	Leaf Rust (%) No Fung	Stripe Rust (%) No Fung	Misted Nursery FHB (0-9)	Misted Nursery FDK (%)	Misted Nursery DON (ppm)	Stripe Rust (0-9)
LA19333NDH-34	58.7	66.1	-7.4	58.4	58.5	0.0	90.0	35.3	0.0	0	0	2.0	15	4.7	0.0
GA151313-20E48	59.0	65.8	-6.9	60.8	59.6	1.3	88.0	31.2	0.0	0	1	2.3	18	5.3	0.0
AGRIMAXX 492	63.2	65.8	-2.6	58.5	58.9	-0.4	89.0	34.8	0.0	2	0	1.8	15	4.5	1.0
DELTA GROW 1200	68.7	64.0	4.7	57.6	55.9	1.7	94.0	29.0	0.0	0	0	1.0	43	5.0	0.0
AGS 2055	53.5	63.3	-9.7	59.5	58.2	1.3	89.0	34.7	1.3	0	4	4.5	75	23.1	3.0
LA17006LDH042	61.1	63.0	-2.0	59.1	60.3	-1.3	90.0	34.7	0.0	0	0	2.3	40	7.2	0.0
DYNA-GRO 9332	62.2	62.9	-0.8	59.7	61.2	-1.5	92.0	35.8	0.0	8	2	2.5	50	15.5	0.0
AGRIMAXX 514	69.2	61.8	7.4	58.0	55.2	2.8	95.0	29.0	0.0	2	0	0.8	28	7.1	0.0
PROGENY PGX 22-21	66.9	60.9	6.0	57.5	56.8	0.7	94.0	32.2	0.0	10	0	1.0	20	3.8	0.0
GA15490ID-19-5-21LE2	66.9	60.5	6.4	59.2	58.9	0.3	90.0	33.0	0.0	0	2	2.8	35	10.2	1.0
PROGENY #BUSTER	71.6	59.9	11.7	59.5	58.5	1.0	89.0	32.8	0.0	5	0	1.3	28	5.7	0.0
DYNA-GRO 9811	64.7	59.6	5.0	58.6	58.1	0.6	90.0	32.0	0.0	2	0	1.0	23	5.0	0.0
PROGENY PGX 22-3	66.4	59.0	7.4	59.1	56.9	2.2	90.0	32.0	0.0	30	0	1.3	13	5.3	0.0
LA19333NDH-31	61.6	58.9	2.7	62.6	59.0	3.6	88.0	30.2	0.0	0	0	3.0	10	5.2	0.0
LA17179SSP-32-3	60.0	58.6	1.4	59.9	58.3	1.6	86.0	32.3	0.0	0	0	1.3	25	5.4	0.0
DELTA GROW 1800	56.2	58.5	-2.3	58.4	58.7	-0.2	89.0	35.5	0.3	0	0	1.3	10	2.5	1.5
LA18003-NDH119	62.0	58.2	3.8	60.2	59.3	0.9	89.0	34.8	0.0	5	1	0.8	13	2.9	3.5
PROGENY #CHAD	67.6	58.1	9.5	59.1	55.5	3.6	88.0	31.0	0.0	0	0	3.3	33	6.2	2.0
SCLANC11558-33	60.9	58.0	2.9	57.8	59.3	-1.5	85.0	32.8	0.0	3	0	2.5	15	4.2	0.0
SCLA18WF0705-5	54.6	57.8	-3.2	60.8	58.8	1.9	89.0	39.0	0.0	2	7	3.3	28	5.6	3.0

Brand / Variety	Grain Yield (bu/a) Fung	Grain Yield (bu/a) No Fung	Grain Yield (bu/acre) Diff	Test Weight (lbs/bu) Fung	Test Weight (lbs/bu) No Fung	Test Weight (lbs/bu) Diff	Head Day (of year) No Fung	Plant Height (in) No Fung	Lodging (0-9) No Fung	Leaf Rust (%) No Fung	Stripe Rust (%) No Fung	Misted Nursery FHB (0-9)	Misted Nursery FDK (%)	Misted Nursery DON (ppm)	Stripe Rust (0-9)
PIONEER 26R59	62.3	57.4	4.9	60.1	57.0	3.1	93.0	29.5	0.0	23	0	4.8	38	13.1	0.0
GANC12915-167-21E3	59.7	57.3	2.3	62.0	58.6	3.4	89.0	33.5	0.0	0	0	2.8	23	5.4	0.5
AGS 3022	63.2	57.1	6.2	59.6	59.4	0.2	85.0	33.3	0.0	0	0	2.5	13	3.1	0.0
LA14272C-86-3-1-3	55.7	57.0	-1.3	60.1	61.3	-1.3	88.0	34.8	0.0	0	0	3.5	38	11.8	0.0
PROGENY BINGO	74.6	56.9	17.7	58.3	55.1	3.3	94.0	27.7	0.7	2	0	0.3	30	5.6	0.0
DELTA GROW 3500	61.9	56.7	5.3	59.0	56.9	2.1	89.0	31.5	0.0	3	2	2.8	38	9.2	1.0
PROGENY #TURBO	65.6	56.4	9.3	57.9	58.1	-0.2	90.0	32.3	0.0	0	0	1.8	13	4.6	0.0
AGRIMAXX 544	57.4	56.0	1.4	61.6	57.2	4.4	88.0	33.7	0.0	7	4	1.0	5	2.6	0.0
DELTA GROW 1900	63.4	55.8	7.5	59.7	56.7	3.0	90.0	33.3	0.0	13	0	1.0	13	4.1	0.0
AGS 4023	57.6	55.5	2.0	59.8	61.0	-1.2	89.0	35.0	0.0	0	2	3.5	30	8.4	2.0
DYNA-GRO 9290	66.2	55.3	11.0	60.0	55.5	4.5	90.0	35.7	0.0	43	0	3.0	8	3.0	0.0
GOWHEAT 6000	63.4	54.2	9.3	58.6	58.7	-0.2	87.0	34.5	0.0	0	0	1.5	30	8.6	0.0
GA141045-9-3-2-21LE7	59.8	53.9	5.9	59.7	59.8	-0.2	92.0	33.5	0.0	7	0	2.0	33	6.1	0.0
PIONEER 26R94	43.3	53.6	-10.3	60.1	59.0	1.0	84.0	39.2	0.0	22	2	1.8	40	6.4	0.0
LA15203-LDH197-1-35	51.3	53.6	-2.2	58.8	57.1	1.7	89.0	35.5	0.0	0	0	1.3	13	3.8	0.0
DYNA-GRO 9393	62.9	53.5	9.5	61.6	57.8	3.8	92.0	31.0	0.0	25	0	1.3	25	6.3	0.0
DYNA-GRO 9593	63.6	52.9	10.7	58.9	56.4	2.5	92.0	32.5	0.0	40	0	0.8	28	8.4	0.0
LA13176CB-15-1-3	66.0	51.4	14.6	60.4	57.7	2.7	89.0	33.8	3.0	0	0	3.3	60	8.1	0.0
SCLA18WF0712-12	48.4	50.2	-1.8	58.5	56.9	1.6	86.0	37.2	0.0	0	10	2.0	18	4.8	2.5
AGRIMAXX 535	70.2	50.0	20.2	60.5	56.1	4.5	96.0	25.2	2.7	0	0	1.0	25	5.8	1.0

Table continues on next page →

Table 10. Wheat performance trial at Alexandria for 2024 (with and without fungicide). (cont.)

Brand / Variety	Grain Yield (bu/a) Fung	Grain Yield (bu/a) No Fung	Grain Yield (bu/acre) Diff	Test Weight (lbs/bu) Fung	Test Weight (lbs/bu) No Fung	Test Weight (lbs/bu) Diff	Head Day (of year) No Fung	Plant Height (in) No Fung	Lodging (0-9) No Fung	Leaf Rust (%) No Fung	Stripe Rust (%) No Fung	Misted Nursery FHB (0-9)	Misted Nursery FDK (%)	Misted Nursery DON (ppm)	Stripe Rust (0-9)
PIONEER 26R45	66.5	50.0	16.5	58.8	57.0	1.9	93.0	30.8	3.3	17	0	1.3	30	5.0	0.0
DYNA-GRO RIVERLAND	45.4	47.5	-2.1	60.5	58.9	1.6	85.0	34.8	0.3	0	30	3.8	53	16.8	3.5
USG 3354	64.8	46.1	18.7	58.6	55.7	3.0	86.0	34.8	3.0	72	20	1.8	30	5.7	0.0
LA18003-NDH069	55.6	46.0	9.6	61.7	56.9	4.7	92.0	31.7	2.3	0	0	0.8	20	5.0	0.0
DYNA-GRO PLANTATION	44.7	43.2	1.5	60.4	58.7	1.7	78.0	34.2	3.0	17	43	5.3	53	13.9	6.5
AGS 4043	46.3	41.9	4.4	60.0	57.2	2.9	89.0	33.3	5.0	0	48	0.5	13	2.6	4.0
DELTA GROW 1000	61.4	40.3	21.1	59.6	53.6	6.0	97.0	27.8	0.3	27	0	1.0	28	7.0	0.0
GA131246LDH-86-21E2	49.4	39.9	9.5	59.6	58.2	1.5	88.0	35.2	3.0	0	33	4.5	40	14.1	6.0
DYNA-GRO 9172	65.4	39.4	26.0	59.6	54.3	5.3	95.0	29.5	0.3	20	0	0.5	40	6.4	1.0
PIONEER 26R33	61.0	28.1	32.9	60.5	55.5	5.0	94.0	29.8	6.7	17	1	0.5	20	5.5	1.0
MEAN	60.1	54.8	5.4	59.6	57.9	1.7	89.7	32.9	0.1	8.5	4.3	2.0	27.5	6.9	0.9
CV%	12	14		1	1	0		6	226	194	135	45	36	33	122
LSD (0.10)	10.0	10.8		0.7	1.0			3.1	1.7	22.3	7.9	1.5	16.3	3.8	1.8
R-SQUARE	0.57	0.61		0.90	0.91			0.83	0.57	0.54	0.84	0.79	0.82	0.87	0.81

Dean Lee Research Station, Alexandria, Louisiana. Boyd Padgett, Fred Collins, Tashia Monaghan and Daniel Stephenson.

Bold: A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.

NS: Not significant - Variety mean differences were not statistically significant.

Lod Score: Lodging score, scale of 0=none to 9=100% lodged.

Misted Nursery: Inoculated with scabby corn and mist irrigated to create heavy Fusarium headblight pressure.

Phenotype: Overall visual appeal with a higher score indicating a more attractive plot. Average of three ratings in spring.

FHB Score: FHB rating on a 0-9 scale with 0 indicating no FHB symptoms on heads.

FDK: Percent Fusarium damaged kernels from yield plots and from a misted and inoculated nursery.

Seed Quality (SDQ): Relative, visual rating of seed plumpness, uniformity and visible defects (disease, insect damage, etc.), 0=poor

Cultural Practices: Planted Nov. 14, 2023. Powerflex (2oz/A) plus Anthem (2.5 oz/A) on Dec. 4, 2023. 20# N on Dec. 11, 2023. Harvested on May 23, 2024.

Table 11. Wheat performance trial at Winnsboro for 2024 (with and without fungicide).

Brand / Variety	Grain Yield (bu/a) Fung	Grain Yield (bu/a) No Fung	Grain Yield (bu/acre) Diff	Test Weight (lbs/bu) Fung	Test Weight (lbs/bu) No Fung	Test Weight (lbs/bu) Diff	Head Day (of year) Fung	Head Day (of year) No Fung	Stripe Rust (%) No Fung	Phenotype (0-9) No Fung	Misted Nursery Head Day of year	Misted Nursery FHB (0-9)	Misted Nursery FDK (0-9)	Misted Nursery FDK-ADJ (0-9)	Misted Nursery DON (ppm)
DYNA-GRO 9172	100.2	91.2	9.1	53.9	54.0	0.0	92.7	96.3	0	6.0	100.0	2.5	65	20.5	14.6
LA18003-NDH119	97.0	91.4	5.5	55.3	55.0	0.3	90.0	89.3	0	7.0	90.0	4.0	5	9.4	1.7
DELTA GROW 1900	95.4	94.9	0.5	54.6	54.4	0.1	91.0	92.7	0	6.7	94.0	3.0	35	25.8	4.6
DYNA-GRO RIVERLAND	93.0	98.4	-5.4	55.7	55.2	0.5	88.0	88.0	7	6.7	89.0	3.5	8	14.4	1.2
PROGENY #BUSTER	91.8	91.8	0.0	54.7	55.6	-0.9	92.3	93.7	0	5.7	98.5	2.0	53	19.2	8.5
GA141045-9-3-2-21LE7	90.7	77.6	13.1	56.3	55.5	0.8	93.0	92.0	0	6.0	94.5	2.5	45	30.8	9.7
PIONEER 26R33	90.3	94.3	-4.0	53.6	54.8	-1.2	93.3	95.7	3	5.7	96.5	3.0	38	18.0	8.3
DYNA-GRO PLANTATION	90.3	84.4	5.9	56.6	56.0	0.6	88.0	88.0	10	6.3	87.0	6.5	13	23.1	1.1
SCLA18WF0705-5	89.8	82.3	7.5	55.3	54.4	0.8	88.0	88.0	9	6.3	89.5	4.0	18	24.8	1.6
GO WHEAT 6000	89.5	87.0	2.5	54.3	55.2	-0.9	91.0	90.0	0	6.7	90.0	4.0	15	20.9	2.1
GA15490ID-19-5-21LE2	89.3	97.3	-8.0	54.9	55.5	-0.6	90.7	92.7	0	6.0	90.0	3.0	15	20.5	2.8
AGRIMAXX 535	88.8	94.2	-5.4	54.2	54.8	-0.6	94.3	98.0	0	5.7	95.0	2.5	63	40.9	18.3
PROGENY #TURBO	88.8	88.1	0.7	53.9	54.9	-1.1	91.7	90.0	0	6.3	92.5	4.5	15	14.2	5.0
PROGENY PGX 22-21	88.6	88.4	0.1	53.1	54.5	-1.4	98.0	94.3	5	5.7	98.5	2.0	45	14.4	6.9
LA13176CB-15-1-3	88.2	99.2	-11.0	54.2	54.6	-0.4	88.7	89.3	0	6.3	90.5	6.5	18	21.4	1.8
USG 3354	87.7	97.8	-10.1	53.2	54.1	-0.9	88.0	88.0	0	6.3	92.5	5.0	20	17.7	2.7
DYNA-GRO 9593	87.6	90.8	-3.2	53.5	53.9	-0.4	94.0	93.3	0	6.0	94.5	3.5	28	17.7	4.1
PROGENY PGX 22-3	86.8	88.7	-1.9	54.3	54.0	0.3	94.0	93.3	0	6.0	95.0	4.0	25	14.8	2.1
PROGENY BINGO	86.4	91.3	-4.9	53.1	53.4	-0.3	97.3	97.0	0	6.0	99.0	3.0	80	32.8	9.5
AGRIMAXX 492	86.3	104.5	-18.2	54.8	55.3	-0.5	89.3	89.0	4	7.3	88.5	7.0	10	17.2	2.0

Table continues on next page →

Table 11. Wheat performance trial at Winnsboro for 2024 (with and without fungicide). (cont.)

Brand / Variety	Grain Yield (bu/a) Fung	Grain Yield (bu/a) No Fung	Grain Yield (bu/acre) Diff	Test Weight (lbs/bu) Fung	Test Weight (lbs/bu) No Fung	Test Weight (lbs/bu) Diff	Head Day (of year) Fung	Head Day (of year) No Fung	Stripe Rust (%) No Fung	Phenotype (0-9) No Fung	Misted Nursery Head Day of year	Misted Nursery FHB (0-9)	Misted Nursery FDK (0-9)	Misted Nursery FDK-ADJ (0-9)	Misted Nursery DON (ppm)
DYNA-GRO 9393	86.0	95.0	-9.0	53.7	54.8	-1.1	92.0	96.0	0	6.0	95.5	2.0	88	57.5	9.5
DELTA GROW 1200	85.5	91.9	-6.4	52.4	53.5	-1.1	98.0	96.7	0	6.3	98.5	3.0	58	21.7	12.3
GA151313-20E48	85.3	79.7	5.6	54.9	54.9	0.0	93.7	92.3	0	6.0	94.5	3.0	30	20.4	3.0
DELTA GROW 3500	85.2	98.9	-13.6	53.1	54.8	-1.7	95.0	92.7	0	6.0	88.0	4.0	53	63.6	8.3
DYNA-GRO 9290	85.0	89.6	-4.5	54.0	53.8	0.3	89.3	89.3	0	6.3	91.5	5.0	30	31.6	2.2
AGRIMAXX 514	84.7	90.8	-6.1	52.9	53.6	-0.7	99.7	95.0	0	6.0	98.5	2.0	60	23.6	6.8
PROGENY #CHAD	84.6	96.0	-11.4	52.8	53.5	-0.8	88.0	88.0	0	6.3	88.0	5.0	18	27.6	2.1
DYNA-GRO 9332	84.4	83.4	1.0	55.6	56.4	-0.8	90.3	89.3	1	7.0	92.5	3.5	43	39.7	6.1
PIONEER 26R59	83.9	86.1	-2.2	52.4	53.7	-1.3	94.0	95.7	0	6.0	87.5	5.0	13	22.4	1.9
AGS 2055	82.8	81.3	1.5	53.8	54.1	-0.3	93.3	91.3	2	6.3	93.0	4.5	53	42.1	6.1
GA131246LDH-86-21E2	82.0	77.6	4.4	53.3	54.5	-1.2	93.3	92.0	9	6.3	93.5	3.0	25	20.1	3.1
PIONEER 26R45	81.8	77.7	4.1	52.4	53.1	-0.7	97.7	98.7	0	5.7	98.0	3.0	45	17.6	12.5
AGS 3022	81.5	88.4	-6.9	55.1	55.6	-0.5	88.0	88.0	0	6.7	86.0	6.5	3	9.9	1.2
DYNA-GRO 9811	81.2	81.2	-0.1	53.8	54.1	-0.3	92.7	90.3	0	6.0	91.5	3.5	28	26.3	3.0
AGS 4023	81.1	86.9	-5.8	56.1	55.5	0.6	91.3	91.3	1	6.0	93.0	4.5	15	12.8	1.8
AGS 4043	80.7	97.7	-17.1	54.2	55.2	-1.0	91.3	89.3	3	6.3	90.0	4.0	10	15.6	1.6
AGRIMAXX 544	80.0	84.2	-4.2	52.9	54.0	-1.1	95.3	93.3	2	6.7	91.0	5.0	8	10.5	2.0
DELTA GROW 1800	79.9	76.2	3.7	54.3	55.0	-0.7	90.3	89.3	0	6.0	90.5	3.5	8	11.6	1.4
LA15203-LDH197-1-35	78.7	84.2	-5.5	54.7	54.1	0.6	90.0	89.3	0	6.3	93.0	3.5	13	9.3	2.2
DELTA GROW 1000	78.4	86.5	-8.2	52.8	54.2	-1.4	100.3	98.3	0	6.0	98.0	2.5	68	29.2	12.8
LA19333NDH-34	77.8	80.2	-2.3	54.5	54.8	-0.3	92.7	90.7	0	6.0	92.5	4.0	3	2.7	1.6
LA17179SSP-32-3	77.1	74.8	2.3	53.3	53.9	-0.5	89.3	88.0	1	6.7	86.0	7.0	5	13.4	0.9
LA14272C-86-3-1-3	75.8	72.7	3.1	55.3	56.0	-0.6	90.7	90.7	0	6.0	90.0	4.0	10	15.3	2.6
SCLA18WF0712-12	75.0	86.7	-11.7	54.0	53.8	0.2	88.0	88.7	2	6.3	87.5	5.5	8	16.0	1.2
LA18003-NDH069	74.5	69.8	4.7	53.3	53.1	0.2	93.0	93.7	0	6.3	94.5	2.0	33	21.4	5.3

Brand / Variety	Grain Yield (bu/a) Fung	Grain Yield (bu/a) No Fung	Grain Yield (bu/acre) Diff	Test Weight (lbs/bu) Fung	Test Weight (lbs/bu) No Fung	Test Weight (lbs/bu) Diff	Head Day (of year) Fung	Head Day (of year) No Fung	Stripe Rust (%) No Fung	Phenotype (0-9) No Fung	Misted Nursery Head Day of year	Misted Nursery FHB (0-9)	Misted Nursery FDK (0-9)	Misted Nursery FDK-ADJ (0-9)	Misted Nursery DON (ppm)
SCLANC11558-33	72.6	89.5	-17.0	53.9	55.4	-1.5	88.0	88.0	1	6.3	87.5	5.0	11	18.8	1.2
LA17006LDH042	72.3	89.8	-17.5	54.2	55.5	-1.3	93.7	92.0	1	6.0	94.0	2.0	15	10.0	3.5
LA19333NDH-31	71.9	74.5	-2.6	54.1	54.7	-0.6	89.3	90.0	0	5.3	89.0	6.5	1	4.8	0.5
PIONEER 26R94	71.9	83.8	-11.9	54.8	56.0	-1.1	88.0	88.0	3	6.0	96.0	3.0	70	40.9	8.2
GANC12915-167-21E3	71.6	87.4	-15.8	54.1	55.5	-1.3	89.3	88.0	1	6.0	87.0	5.5	5	13.1	1.2
MEAN	84.0	87.5	-3.5	54.1	54.6	-0.5	92.0	91.6	1.3	6.2	92.4	3.9	28.7	21.8	4.7
CV%	12	9		1	1		3	2	183	7.7	2	28	48	51	77
LSD (0.10)	13.5	10.9		1.0	0.8		3.7	2.5	3.2	0.7	3.1	1.8	1.7	1.7	6.0
R-SQUARE	0.43	0.60		0.74	0.73		0.69	0.82	0.64	0.5	0.89	0.81	0.85	0.71	0.74

Macon Ridge Research Station, Winnsboro, Louisiana. Trey Price, Myra Purvis, Dustin Ezell, Brady McKay.

NOTES: There was a highly significant effect of heading date on FHB symptoms in the misted nursery. Early heading entries had lower FHB scores.

The correlation between heading date and FHB score in the misted nursery is -0.78*** (***) indicates significant at 0.001 level). FHB developed very late.

This data is not used in calculating FHB reaction type in Table 12. The data from Alexandria is excellent and was used.

Bold: A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.

NS: Not significant - Variety mean differences were not statistically significant.

Lod Score: Lodging score, scale of 0=none to 9=100% lodged.

Misted Nursery: Inoculated with scabby corn and mist irrigated to create heavy Fusarium headblight pressure.

Phenotype: Overall visual appeal with a higher score indicating a more attractive plot. Average of three ratings in spring.

FHB Score: FHB rating on a 0-9 scale with 0 indicating no FHB symptoms on heads.

FDK: Percent Fusarium damaged kernels from yield plots and from a misted and inoculated nursery.

Seed Quality (SDQ): Relative, visual rating of seed plumpness, uniformity and visible defects (disease, insect damage, etc.), 0=poor

Cultural Practices: Planting date: Nov. 15, 2023; Nov. 16, 2023, Sencor 2 oz/ac, Anthem Flex 4 oz/ac; Feb. 21, 2024, 50 units N; March 11, 2024, 2,4-D application;

March 12, 2024, 50 units N; March 26, 2024 Miravis Ace 13.7 fl oz/ac; April 9, 2024 Miravis Ace 13.7 fl oz/ac; Harvest: June 3, 2024.

Table 12. Fusarium headblight misted nursery data from Alexandria and Winnsboro for north Louisiana wheat variety trials in 2022, 2023 and 2024.

Brand/Variety	PID	2024 REACTION TYPE	FHB INDEX 3-YR	FHB INDEX 2-YR	FHB INDEX 2024	FHB INDEX 2023	FHB INDEX 2022	FHB SCORE AVG (0-9)	FHB SCORE 2024 (AX only)	FHB SCORE 2023 (AX + WN)	FHB SCORE 2022 (AX + WN)	FDK PERCENT AVG (0-9)	FDK PERCENT 2024 (AX only)	FDK PERCENT 2023 (AX + WN)	FDK PERCENT 2022 (AX + WN)	DON PPM AVG	DON PPM 2024 (AX only)	DON PPM 2023 (AX + WN)	DON PPM 2023 (AX + WN)
DELTA GROW 1800	LW1822	RESISTANT	6.3	5.6	4.9	6.4	7.7	1.6	1.3	2.2	1.4	20.4	10	35	16	2.3	3	3	2
PROGENY #TURBO	LW1622	RESISTANT	7.1	7.6	9.5	5.8	6.2	1.5	0.3	2.6	1.6	22.8	30	25	14	2.9	6	2	1
PROGENY #CHAD	LW2006	MOD-RESISTANT	7.4	6.5	7.6	5.4	9.3	1.9	1.8	2.0	2.0	22.5	13	39	16	2.4	5	1	1
PIONEER 26R45	LW1814	MOD-RESISTANT	7.6	7.7	10.0	5.5	7.3	1.2	1.3	1.6	0.6	26.7	30	43	8	2.5	5	2	1
PROGENY #BINGO	LW2004	MOD-RESISTANT	7.8	8.4	10.2	6.6	6.6	1.1	1.3	1.5	0.6	27.1	28	43	11	3.4	6	3	1
AGRIMAXX 492	LW1804	MOD-RESISTANT	8.1	6.8	7.8	5.9	10.6	2.0	1.8	2.4	1.9	18.3	15	21	19	2.8	4	3	1
DELTA GROW 1000	LW1607	MOD-RESISTANT	8.1	8.8	11.0	6.6	6.7	1.3	1.0	2.0	0.9	23.6	28	30	14	3.8	7	4	1
AGS 3022	LW2116	MOD-RESISTANT	8.2	6.2	7.0	5.4	12.3	2.4	2.5	2.0	2.8	21.3	13	25	26	2.1	3	2	1
DYNA-GRO 9172	LW2103	MOD-RESISTANT	8.5	10.0	11.9	8.1	5.5	0.7	0.5	1.3	0.3	26.1	40	28	10	4.6	6	6	1
DELTA GROW 1200	LW2131	MOD-RESISTANT	9.3	8.7	11.5	5.9	10.5	1.1	1.0	1.6	0.6	33.3	43	41	16	2.8	5	2	1
PROGENY #BUSTER	LW1929	MOD-RESISTANT	9.3	9.7	13.3	6.1	8.5	2.4	3.3	2.3	1.8	22.5	33	20	15	3.5	6	3	1
GO WHEAT 6000	LW2016	MOD-SUSCEPTIBLE	10.1	9.7	13.3	6.0	10.9	2.0	1.5	1.5	2.9	25.8	30	26	21	4.3	9	4	1
PIONEER 26R59	LW1523	MOD-SUSCEPTIBLE	13.9	14.7	21.6	7.8	12.2	3.1	4.8	2.7	2.0	32.5	38	35	25	5.8	13	4	0
DYNA-GRO PLANTATION	LW1910	SUSCEPTIBLE	18.4	17.5	24.9	10.2	20.1	4.9	5.3	4.8	4.6	38.8	53	24	40	7.2	14	5	2
DYNA-GRO RIVERLAND	LW2001	SUSCEPTIBLE	18.7	17.1	25.9	8.3	21.8	4.2	3.8	4.0	4.9	41.3	53	33	39	7.3	17	3	2
AGS 2055	LW1533	SUSCEPTIBLE	25.4	24.0	35.5	12.5	28.2	3.7	4.5	4.0	2.6	55.4	75	40	51	10.4	23	8	1
LA18003-NDH119	LW2326	RESISTANT		4.4	5.0	3.7		1.4	0.8	2.0		15.0	13	18		1.5	3	1	0
DELTA GROW 1900	LW2307	RESISTANT		5.4	6.3	4.5		1.6	1.0	2.1		19.4	13	26		2.0	4	1	1
AGRIMAXX 535	LW2302	MOD-RESISTANT		7.8	9.7	5.9		1.3	1.0	1.5		28.1	25	31		3.2	6	3	1
DYNA-GRO 9393	LW2309	MOD-RESISTANT		7.9	10.4	5.4		1.5	1.3	1.8		26.9	25	29		3.5	6	2	2

Brand/Variety	PID	2024REACTION TYPE	FHB INDEX 3-YR	FHB INDEX 2-YR	FHB INDEX 2024	FHB INDEX 2023	FHB INDEX 2022	FHB SCORE AVG (0-9)	FHB SCORE 2024 (AX only)	FHB SCORE 2023 (AX + WN)	FHB SCORE 2022 (AX + WN)	FDK PERCENT AVG (0-9)	FDK PERCENT 2024 (AX only)	FDK PERCENT 2023 (AX + WN)	FDK PERCENT 2022 (AX + WN)	DON PPM AVG	DON PPM 2024 (AX only)	DON PPM 2023 (AX + WN)	DON PPM 2023 (AX + WN)
GA151313-20E48	LW2315	MOD-RESISTANT		8.0	9.3	6.6		2.9	2.3	3.5		27.1	18	37		2.5	5	2	1
PROGENY PGX 22-3	LW2329	MOD-RESISTANT		8.3	7.6	8.9		2.1	1.3	2.9		28.1	13	44		3.8	5	4	2
AGRIMAXX 514	LW2301	MOD-RESISTANT		8.3	10.9	5.8		1.4	0.8	2.0		25.0	28	23		4.0	7	3	2
PIONEER 26R33	LW2327	MOD-RESISTANT		8.3	8.2	8.5		1.2	0.5	1.9		27.5	20	35		4.2	5	5	2
USG 3354	LW2332	MOD-SUSCEPTI-BLE		8.5	11.0	6.0		2.0	1.8	2.3		30.0	30	30		3.0	6	3	1
LA17006LDH042	LW2324	MOD-SUSCEPTI-BLE		9.6	14.3	4.8		2.4	2.3	2.6		32.5	40	25		3.0	7	1	1
PIONEER 26R94	LW1322	MOD-SUSCEPTI-BLE		9.6	13.1	6.0		2.4	1.8	3.0		38.3	40	37		2.9	6	1	1
DELTA GROW 3500	LW2306	SUSCEPTIBLE		10.6	16.2	5.0		2.4	2.8	2.0		39.4	38	41		3.6	9	1	1
DYNA-GRO 9332	LW2215	SUSCEPTIBLE		17.2	23.2	11.2		3.3	2.5	4.0		39.2	50	28		8.3	15	7	2
AGRIMAXX 544	LW2401				4.0				1.0				5				3		
AGS 4023	LW2402				15.2				3.5				30				8		
AGS 4043	LW2403				4.6				0.5				13				3		
DYNA-GRO 9290	LW2404				6.7				3.0				8				3		
DYNA-GRO 9593	LW2405				12.1				0.8				28				8		
DYNA-GRO 9811	LW2406				8.6				1.0				23				5		
GA131246LDH-86-21E2	LW2410				22.6				4.5				40				14		
GA141045-9-3-2-21LE7	LW2411				12.0				2.0				33				6		
GA15490ID-19-5-21LE2	LW2412				16.7				2.8				35				10		
GANC12915-167-21E3	LW2413				10.7				2.8				23				5		
LA13176CB-15-1-3	LW2414				19.0				3.3				60				8		

Table continues on next page →

Table 12. Fusarium headblight misted nursery data from Alexandria and Winnsboro for north Louisiana wheat variety trials in 2022, 2023 and 2024. (cont.)

Brand/Variety	PID	2024REACTION TYPE	FHB INDEX 3-YR	FHB INDEX 2-YR	FHB INDEX 2024	FHB INDEX 2023	FHB INDEX 2022	FHB SCORE AVG (0-9)	FHB SCORE 2024 (AX only)	FHB SCORE 2023 (AX + WN)	FHB SCORE 2022 (AX + WN)	FDK PERCENT AVG (0-9)	FDK PERCENT 2024 (AX only)	FDK PERCENT 2023 (AX + WN)	FDK PERCENT 2022 (AX + WN)	DON PPM AVG	DON PPM 2024 (AX only)	DON PPM 2023 (AX + WN)	DON PPM 2023 (AX + WN)
LA14272C-86-3-1-3	LW2415				19.2				3.5				38				12		
LA15203-LDH197-1-35	LW2416				6.4				1.3				13				4		
LA17179SSP-32-3	LW2417				9.6				1.3				25				5		
LA18003-NDH069	LW2418				8.0				0.8				20				5		
LA19333NDH-31	LW2419				9.0				3.0				10				5		
LA19333NDH-34	LW2420				8.2				2.0				15				5		
PROGENY PGX 22-21	LW2421				7.2				1.0				20				4		
SCLA18WF0705-5	LW2422												28				6		
SCLA18WF0712-12	LW2423				8.7				2.0				18				5		
SCLANC11558-33	LW2424				8.3				2.5				15				4		
MEAN									2.02	2.43	2.29	28.78	27.45	31.86	22.82		6.89	3.42	1.28
CV%									45	28	48		36	48	32		33	58	56
LSD (0.10)									2	0	2		16	NS	12		4	NS	
R-SQUARE									0.79	0.82	0.86		0.82	0.66	0.89		0.87	0.85	0.77

FHB reaction type is observed reaction based on FDK and DON for two or more years.

Reaction types are resistant, moderately resistant, moderately susceptible and susceptible.

FHB Index: A numerical rating that is $2*[(FHB/MEAN) + (2*FDK/MEAN) + (3*DON/MEAN)]$. It weighs FHB once, FDK twice and DON three times because FDK and DON determines rejection. It is standardized two versus three years by using percent of the mean rather than numerical value.

Contains data from misted nurseries at Winnsboro in 2022, 2023 and 2024.

FHB score: A 0-9 rating of head symptoms, where a 0 indicates no symptoms and a 9 indicates complete head coverage.

FDK: Percent Fusarium damaged kernels from yield plots and from a misted and inoculated nursery.

DON: Parts per million of Deoxynivalenol toxin.

Table 13. 2024 Oat variety trial at Winnsboro.

Brand / Variety	Grain Yield (bu/a)	Test Weight (lbs/bu)	Seed Quality (0-9)	Head Day (of year) BR	Growth Habit (0-9)	Growth Habit BR (0-9)	LEAFY (0-9)	LEAFY BR (0-9)	Phenotype (0-9)	Phenotype BR (0-9)	Crown Rust BR (%)	Stem Rust BR (0-9)
LA15015SB-S50	121.7	33.4	6.0	95.5	5.0	6.0	6.3	6.0	6.4	6.5	1	0.0
LA17069SBSS-2-1	116.9	31.1	6.3	95.5	5.0	6.5	5.7	6.0	5.7	6.3	0	0.0
LA17089SBS-45-1-1	107.9	33.1	5.7	97.5	5.3	6.5	4.7	5.5	5.4	5.3	0	0.0
LA17089SBS-25-2	104.9	34.2	5.3	90.0	5.3	6.0	4.3	6.0	5.2	5.0	0	2.5
FLLA17069-57	104.4	32.9	6.3	89.0	4.0	5.0	4.7	5.0	5.0	6.0	0	0.0
LAFL17541-5-1	104.2	27.6	5.0	86.5	5.3	5.0	5.0	5.5	5.3	5.3	0	1.5
LA17153SBSS-55-1	102.5	33.0	6.0	97.0	5.7	7.0	5.3	6.0	5.4	5.3	0	0.0
LA17153SBSS-46-1	101.4	31.9	4.7	97.5	5.3	6.5	5.3	6.0	5.2	5.0	0	0.0
LA17089SBS-33-2	100.2	34.0	6.0	88.0	5.3	6.0	5.0	5.0	5.3	5.3	0	2.5
LA17067SBSS-44-1	99.3	28.7	5.3	84.5	5.0	4.5	5.7	5.0	5.7	5.0	0	0.0
TX18OCS9061	97.5	30.2	4.7	80.0	4.0	4.0	4.3	5.0	5.6	5.3	0	3.0
RAM11019	97.5	30.7	4.0	88.0	4.7	4.5	5.0	5.5	5.7	5.5	0	4.0
TX18OCS9125	96.2	26.7	4.0	90.5	4.7	5.0	5.0	6.0	5.8	5.5	0	5.0
SAVAGE	94.7	28.3	4.3	84.0	5.0	5.0	6.3	5.5	6.2	6.0	0	0.0
HORIZON 306	93.4	29.7	4.7	96.0	5.3	6.0	5.7	6.0	5.9	5.8	1	5.5
LA99016 CK	93.4	31.6	4.7	89.5	5.0	6.0	6.3	6.0	6.0	5.8	0	4.5
LA17080SBS-32-1-1	92.7	27.8	5.3	95.0	5.0	5.5	5.0	6.0	5.1	6.3	0	0.5
LA17129SBSS-8-1	90.4	28.7	4.7	79.0	6.0	4.5	4.7	4.5	5.0	4.5	0	0.0
FL13123-54	88.6	26.7	4.7	87.5	4.7	5.0	5.0	4.5	5.3	4.8	0	6.0
FL13123-50	87.9	29.8	5.0	90.5	4.7	5.5	5.7	5.0	5.9	5.0	0	5.5

Table continues on next page →

Table 13. 2024 Oat variety trial at Winnsboro. (cont.)

Brand / Variety	Grain Yield (bu/a)	Test Weight (lbs/bu)	Seed Quality (0-9)	Head Day (of year) BR	Growth Habit (0-9)	Growth Habit BR (0-9)	LEAFY (0-9)	LEAFY BR (0-9)	Phenotype (0-9)	Phenotype BR (0-9)	Crown Rust BR (%)	Stem Rust BR (0-9)
LA17075SBSS-29-1	87.9	34.8	5.7	89.5	4.0	5.5	4.7	5.5	5.0	5.5	0	0.0
TX18OCS9100	85.9	29.4	4.7	89.5	4.7	6.0	5.3	6.0	5.9	6.0	0	3.0
TX17OCS8075	84.5	32.2	4.3	93.5	5.7	5.5	5.3	6.0	5.6	5.8	2	2.5
TX16OCS7093	83.7	28.1	4.0	86.5	4.0	5.5	5.0	4.5	6.0	4.3	3	7.0
FL13126-69	80.9	31.4	5.0	94.0	5.0	6.0	5.0	5.5	5.4	6.0	0	3.0
BROOKS CK	50.9	24.1	3.0	92.0	5.0	5.5	4.7	5.5	4.4	5	20	7.0
MEAN	95.0	30.4	5.0	90.2	5.0	5.5	5.2	5.5	5.5	5.4	1.0	2.4
CV%	10.1	2.7	14.4	2.3	8.2	10.0	13.2	7.6	9.7	8.2	82.7	43.6
LSD (0.10)	13.2	1.1	1.0	3.6	0.6	1.0	0.9	0.7	0.7	0.8	1.7	1.8
R-SQUARE	0.75	0.94	0.67	0.92	0.73	0.78	0.58	0.77	0.50	0.8	0.98	0.92

Sweet Potato Research Station: Stephen Harrison, Noah DeWitt, Trey Price, Kelly Arceneaux, Steven Abernathy, Adam Easterling, Myra Purvis and Dustin Ezell.

Comments: Blue font indicates data from the Baton Rouge trial that was not harvested due to stand issues resulting from severe Pythium epidemic.

Bold: A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines. Data in Blue Font is from Baton Rouge.

Seed Quality (SDQ): Relative, visual rating of seed plumpness, uniformity, and visible defects (disease, insect damage, etc.), 0=poor.

Growth Habit: A low number indicates earlier and more upright growth and a high number indicates a prostrate growth habit during early or mid-winter. Higher numbers may be indicative of winter hardiness.

Phenotype: Overall visual appeal with a higher score indicating a more attractive plot. Average of three ratings in spring.

Cultural Information: Planted Nov. 17, 2023. Harvested May 26, 2024. Amber herbicide applied postemergence. 50-0-0 + 30-0-0 applied as 30% N liquid in early February and late February. 60# K applied in late January to correct a deficiency.

Table 14. 2024 Oat variety trial across Louisiana for two years.

Brand / Variety	Grain Yield (bu/a)	Test Weight (lbs/bu)	Seed Quality (0-9)	Growth Habit (0-9)	LEAFY (0-9)	Head Day (of year)	Lodging Score (0-9)	Crown Rust (%)	Stem Rust (0-9)	Phenotype (0-9)
LA15015SB-S50	121.1	34.0	6.0	5.7	6.3	95.5	2.5	1	0.0	6.4
LA17089SBS-25-2	107.8	35.2	5.8	5.8	4.8	90.0	1.3	0	2.5	5.4
LAFL17541-5-1	107.3	29.1	5.2	3.8	4.7	86.5	1.3	0	1.5	5.0
LA17089SBS-33-2	106.7	35.3	6.2	5.7	5.2	88.0	1.0	0	2.5	5.5
LA17129SBSS-8-1	102.5	30.3	4.8	5.0	4.8	79.0	1.0	0	0.0	5.2
LA17067SBSS-44-1	101.2	29.2	5.2	4.0	4.7	84.5	1.7	0	0.0	5.4
HORIZON 306	99.7	30.6	4.8	4.8	6.3	96.0	5.0	1	5.5	6.0
LA99016 CK	96.8	31.7	4.6	6.5	5.8	89.5	3.3	0	4.5	5.9
SAVAGE	95.4	29.0	4.2	5.7	5.7	84.0	1.0	0	0.0	6.0
BROOKS CK	46.9	25.2	3.8	4.8	5.3	92.0	8.0	23	7.0	4.6
MEAN	98.1	31.0	5.1	5.2	5.4	88.5	2.7	2.4	2.4	5.5
CV%	10.9	3.4	13.6	9.8	17.2	2.0	43.1	13.5	45.9	9.4
LSD (0.10)	14.2	1.4	0.8	NS	NS			2.2		0.7
R-SQUARE	0.88	0.95	0.73	0.91	0.57	0.95	0.88	1.00	0.92	0.7

Sweet Potato Research Station: Stephen Harrison, Trey Price, Noah DeWitt, Kelly Arceneaux, Steven Abernathy, Adam Easterling, Myra Purvis and Dustin Ezell.

Comments: Data from Winnsboro in 2023 and Chase (Winnsboro) in 2024.

Bold: A bolded "Brand/Variety" indicates the entry is commercially available; others are nonreleased breeding lines.

Seed Quality (SDQ): Relative, visual rating of seed plumpness, uniformity, and visible defects (disease, insect damage, etc.), 0=poor.

Growth Habit: A low number indicates earlier and more upright growth and a high number indicates a prostrate growth habit during early or mid-winter.

Higher numbers may be indicative of winter hardiness.

Phenotype: A visual appeal rating with a higher score indicating a prettier plot. 0=poor, 9=excellent.

Cultural Information: Planted Nov. 17, 2023. Harvested May 26, 2024. Amber herbicide applied postemergence. 50-0-0 + 30-0-0 applied as 30% N liquid in early February and late February. 60# K applied in late January to correct a deficiency.

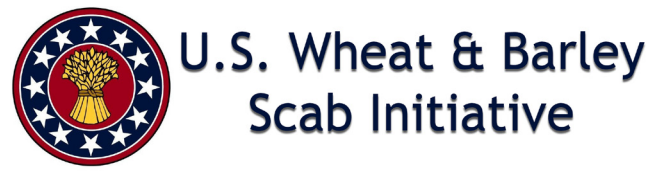
Appendix A. Entries in the 2024 Louisiana Agricultural Experiment Station Small Grain Performance Trials.

Wheat Brand/Abbreviation	Variety/Breeding Line	Originating Agency
AgriMAXX	AgriMAXX 492, 514, 535, 544	AgriMAXX Wheat Company 7167 Highbanks Road Mascoutah, IL 62258
AGS	AGS 3022, 4023, 4043	AGSouth Genetics 1113 Pretoria Road / P.O. Box 398 Albany, GA 31708
AR	All numbered AR lines	University of Arkansas Division of Agriculture 1366 W. Altheimer Drive Fayetteville, AR 72704
Delta Grow	Delta Grow 1000, 1200, 1800, 1900, 3500	Delta Grow Seed 220 N W 2nd / P.O. Box 219 England, AR 72046
Dyna Gro	Dyna-Gro Plantation, Riverland, DG 9172, DG 9290, DG 9332, DG 9393, DG 9593, DG 9811	Dyna-Gro Seed 11 Gin Road Rayville, LA 71269
FL	All numbered FL lines	University of Florida 3105 McCarty Hall B Gainesville, FL 32611
GA	All numbered GA lines	University of Georgia 1109 Experiment St. Griffin, GA 30223
LA	All numbered LA lines	Louisiana Agricultural Experiment Station SPESS – LSU 104 MB Sturgis Hall Baton Rouge, LA 70803
NC State	All numbered NC lines	North Carolina State University 840 Method Road, Unit 3, Box 7629 Raleigh, NC 27695

Wheat Brand/Abbreviation	Variety/Breeding Line	Originating Agency
Pioneer	Pioneer 26R33, 26R45, 26R59, 26R94	Pioneer Hybrid 5410 La. 139 Marksville, LA 71351
Progeny	#Bingo, #Buster, #Chad, #Turbo, PGX 22-3, PGS 22-21	Erwin-Keith, Inc./Progeny, 1529 Hwy. 193 South Wynne, AR 72396
SC	All numbered SC lines	Clemson University 2200 Pocket Road Florence, SC 29506
Stratton	AGS 2055, Go Wheat 6000	Stratton Seed Co., 1530 Hwy 79 South Stuttgart, AR 72160
TX	All numbered TX lines	Texas AgriLife Research TAMU - Commerce Department of Ag Science Commerce, TX 75429
USG	USG 3354	UniSouth Genetics, Inc., 3205-C Hwy. 46 South Dickson, TN 37055
Oat Brand/Abbreviation	Variety/Breeding Line	Originating Agency
AgSouth	Horizon 306	AGSouth Genetics, 1113 Pretoria Road / P.O. Box 398, Albany, GA 31708
FL	All numbered FL lines	University of Florida, 3105 McCarty Hall B Gainesville, FL 32611
LA	All numbered LA lines	Louisiana Agric. Experiment Station, SPESS – LSU, Baton Rouge, LA 70803
NC State	All numbered NC lines	North Carolina State University, 840 Method Road, Unit 3, Box 7629, Raleigh, NC 27695
Stratton	Savage	Stratton Seed Co., 1530 Hwy. 79 South Stuttgart, AR 72160
TAMO / TX	All numbered TAMO / lines	Texas AgriLife Research TAMU - Commerce, Department of Ag Science Commerce, TX 75429

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