



Mississippi
**WHEAT
& OAT**

VARIETY TRIALS, 2008



MISSISSIPPI AGRICULTURAL & FORESTRY EXPERIMENT STATION • MELISSA J. MIXON, INTERIM DIRECTOR

MISSISSIPPI STATE UNIVERSITY • VANCE H. WATSON, INTERIM PRESIDENT • MELISSA J. MIXON, INTERIM VICE PRESIDENT

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Trade names of commercial products used in this report are included only for clarity and understanding. All available names (i.e., trade names, code numbers, chemical names, etc.) of varieties or products used in this research project are listed on pages 4-5.

Mississippi Wheat and Oat Variety Trials, 2008

Bernie White
Manager, Variety Evaluations
Mississippi State University

Tom Allen
Assistant Extension Professor
Delta Research and Extension Center

Frankie Boykin
Manager Operations
Black Belt Branch Experiment Station

Brad A. Burgess
Research Associate II
Research Support Units

David Ingram
Associate Extension/Research Professor
Central Mississippi Research and Extension Center

Billy Johnson
Research Associate III
Coastal Plain Branch Experiment Station

Erick Larson
Extension Grain Crops Specialist
Plant and Soil Sciences
Mississippi State University

Robert Martin
County Extension Director
Issaquena County

Dennis Rowe
Statistician
Research Support Units

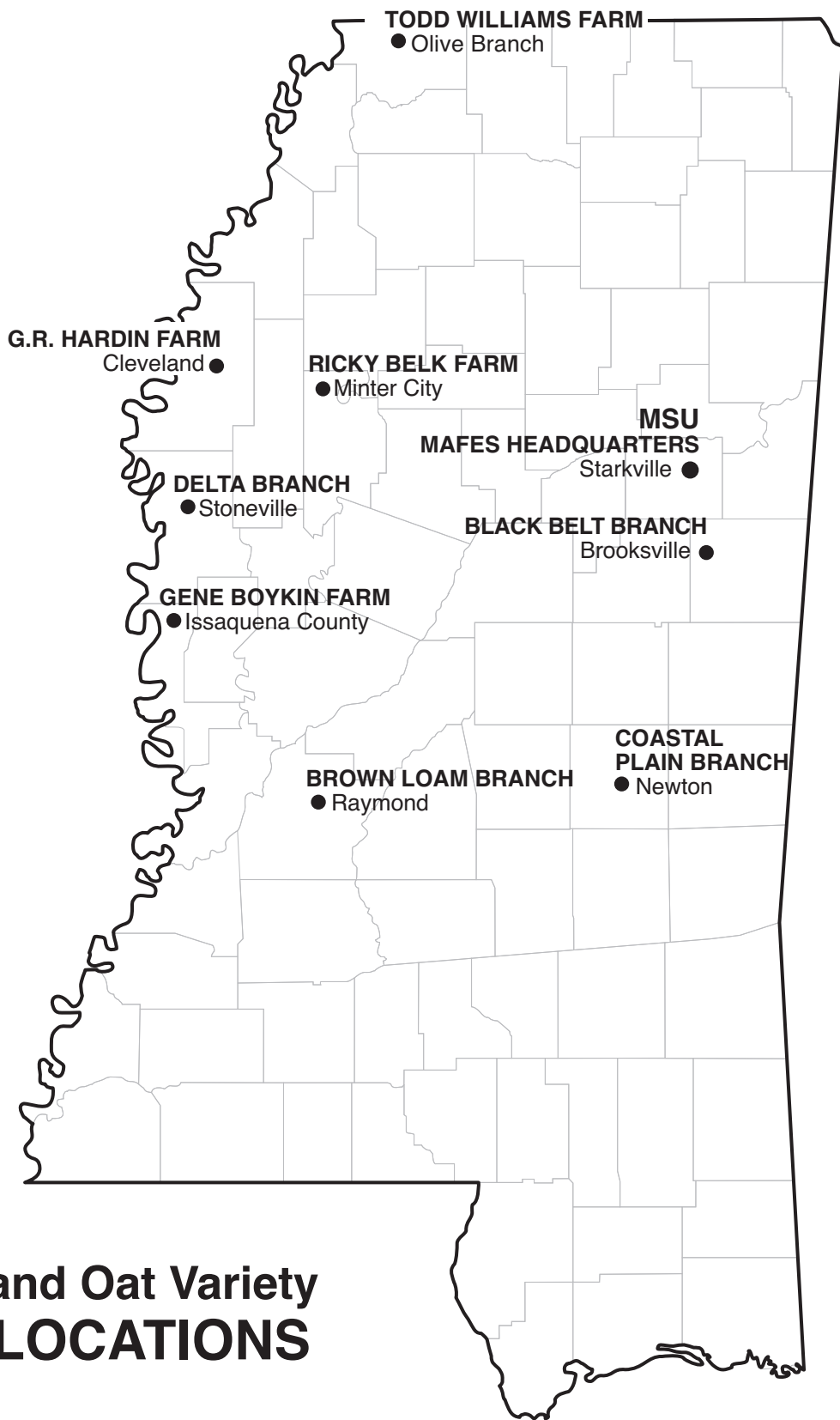
Jerry Singleton
Area Extension Agent/Agronomic Crops
Leflore County

Art Smith
Area Extension Agent/Agronomic Crops
Tunica County

Sammy Soignier
Facilities Coordinator
Brown Loam Branch Experiment Station

Lingxiao Zhang
Associate Research Professor
Delta Research and Extension Center

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Wheat and Oat Variety TEST LOCATIONS

Mississippi Wheat and Oat Variety Trials, 2008

INTRODUCTION

Small grains are grown throughout Mississippi. Wheat is the primary crop, followed by oats. Wheat and oat variety trials were conducted at six locations in Mississippi in 2007-2008. Wheat yields typically range from 40 to 60 bushels per acre and often produce 60 to 80 bushels per acre under good management and favorable weather conditions. Oat yields from 50 to 80 bushels per acre are common.

PROCEDURES

Experimental Design. Experimental design for each crop species at each location was a randomized complete block with four replications. Plots consisted of seven 15-foot rows spaced 7 inches apart.

Cultural Practices. Plots were limed and fertilized according to soil test recommendations. Foliar fungicides were not applied at any trial locations to insure that genetic performance of the varieties was evaluated under natural environmental conditions. Herbicides were applied as needed at each location for weed control.

Seed Source. Seed of all private entries were supplied by participating companies. Seed of all public varieties were breeder or foundation seed from the state that developed the variety.

Planting Rate. All seeds were packaged for planting at the rate of 20 seeds per foot of row for both crops. Plots were planted with a cone, spinner-divider planter.

Yield. A plot combine was used to harvest the total plot area after the plots were trimmed to a standard length. Harvested seed were converted to bushels per acre (60 pounds per bushel for wheat, and 32 pounds per bushel for oats).

Heading Date. At most locations, the heading date for each variety was recorded. This is the date when 50% of the heads were extended above the flag leaf.

Plant Height. The height of plants was measured from the soil to the top of the spike or head.

Lodging. Lodging was rated on a 1 to 5 scale: 1 = almost all plants erect; 2 = all plants leaning slightly or only a few plants down; 3 = all plants leaning moderately or 25% to 50% of plants down; 4 = all plants leaning considerably, or 50% to 80% of plants down; and 5 = all plants down.

Seed Test Weight. The test weight for each variety was determined from a composite sample from all replications.

Disease Ratings. All varieties were rated for development of leaf rust and Septoria leaf and Stagonospora glume blotch according to *James' Manual of Assessment Keys for Plant Diseases*. At growth stages 10.5 (spikes emerged) and 11.1 (milky ripe), 10 plants were selected at random from each plot. The percentage of leaf area affected by each disease on the flag leaf was recorded. From these data, an assessment was made of the overall disease response of each variety.

IMPORTANT FACTORS FOR PRODUCERS

Land Selection. Waterlogged soils often limit wheat productivity. Poorly drained, heavy soils of the Delta and bottomland areas of east Mississippi should be avoided.

Seeding Methods. Timely and proper seeding techniques insure rapid, successful establishment of small-grain seedlings. Planting into a moist weed-free seedbed with a grain drill is the preferred seeding method for small grains. Modern drills are capable of seeding in many unprepared (no tillage) as well as traditionally prepared seedbeds. The optimum seeding depth ranges from 1 to 1.5 inches, depending upon soil moisture status and soil type. Deep seeding is recommended when soil moisture is marginally dry, particularly on light, sandy soils. Producers who do not have grain drills may “rough in” small grains by broadcast sowing on recently tilled soil and covering the seed with a light tillage operation, such as a harrow, field cultivator or shallow disking. Seeding rates should be increased approximately 25% when utilizing the “rough in” system to compensate for poorer establishment since seeding depth is random and no firming over the seed occurs with this method. When field conditions are too wet to permit tractor operations, or when overseeding an existing crop, small grains may be aerially broadcast seeded. Seeding rates should be increased about 75% compared with drilled rates since surface establishment is extremely dependent upon ambient environmental conditions. Thus, aerial seeding is usually only recommended for late-planted small grains since evaporation rates are much lower late in the fall and little time remains to seed using normal planting methods.

Seeding Rates. Normal seeding rates for planting with a drill vary from 80 to 100 pounds of seed per acre, depending upon the variety and planting date. The low rate should be used when planting at the normal date, and the higher rates should be used when planting late or when planting conditions are poor. If seed is broadcast and covered with a disk or field cultivator, 100 to 120 pounds of seed per acre should be planted. When seeding aerially, about 150 pounds per acre should be applied. Seeding rates are similar for oats. This should result in final plant stands of approximately 25-30 plants per square foot.

Cold Requirements. Winter varieties of small grains require a certain amount of cold weather (less than 40°F) before the plants will form seed heads. This process is called vernalization. Most of the wheat varieties planted in Mississippi require low temperatures to reproduce; oats do not. In some years, there is not enough cold weather in south Mississippi for some northern-adapted wheat varieties, resulting in little or no seed-head production. Normally, these varieties have late heading dates at south Mississippi locations. Check adaptation of unfamiliar vari-

eties with an MSU Extension Service agent or seed company representative.

Planting Dates. Planting before recommended planting dates often results in establishment difficulty, increased stress and pest problems (freeze injury, aphids, Hessian fly, and disease). Late planting may not expose wheat plants to cool temperatures long enough for proper development. Recommended planting dates vary according to the region:

North Mississippi	Oct. 1 to Nov. 5
Central Mississippi	Oct. 15 to Nov. 25
South Mississippi	Nov. 1 to Dec. 10

Disease Management. Several diseases may attack wheat and oat plants in Mississippi. Leaf rust, Stripe rust, and several head diseases are very common. Planting disease-resistant varieties is the most practical and economical method to manage diseases; however, chemical control may be required to control severe outbreaks. Wheat variety reactions to prevalent diseases during this growing season are reported in Table 10.

Fertilization. Keep soil pH 6 or higher. Growers should test and apply lime, phosphate, and potash according to soil analysis recommendations. If soybeans follow a wheat crop on heavy soils (clays, clay loams, and silt loams), apply phosphate and potash for the soybean crop before planting the wheat. This practice is not recommended on sandy soils because potash may be leached away. Nitrogen rate recommendations vary from 90 to 160 pounds per acre depending primarily upon soil texture, with higher rates needed on clay soils. Split application of nitrogen fertilizer is strongly encouraged for wheat production to improve crop-fertilizer use efficiency. One-third or less of the total nitrogen should be applied when dormancy breaks in the spring on tillering wheat.

Apply the balance of the nitrogen when wheat becomes strongly erect and stem elongation begins, which generally occurs from late February through mid-March.

Weed Control. Mississippi State University Extension Service Publication 1532, *Weed Control Guidelines for Mississippi*, provides detailed information for controlling weeds in wheat and oats. For more specific information, refer to MSU-ES Information Sheet 961, *Small Grains Production*.

Saving Seed. Many private and public wheat varieties are protected from unauthorized replanting by the Plant Variety Protection Act (PVPA) and/or United States Patent. Seed produced from a patented variety cannot be planted for any purpose, including nontraditional uses. PVPA-protected seed cannot be sold, advertised, offered, delivered, consigned, exchanged, or exposed for sale without permis-

sion from the proprietary seed owner. In addition, no one can try to buy, transfer, or possess the variety in any way. It also is illegal to clean or condition such seed to sell for planting purposes. Retail dealers, seed cleaners, and consumers all are legally responsible for these violations. An exemption to the 1994 amended PVPA allows growers to collect and save seed produced from any legally purchased PVPA-protected variety. They can use this seed for their own future planting, but they cannot sell, trade, or transfer it to others for planting purposes. No one can replant a wheat variety that is patented for any reason.

For further information please refer to:

MSU Extension Service Information Sheet 1763
<http://msucares.com/pubs/infosheets/is1763.pdf>

Plant Variety Protection Act
http://151.121.3.150/science/PVPO/PVPO_Act/whole2.pdf

Plant Variety Protection Office PVP Database
<http://www.ars-grin.gov/cgi-bin/npgs/html/pvplist.pl?>

United States Patent Database
<http://www.uspto.gov/patft/index.html>

USE OF DATA TABLES AND SUMMARY STATISTICS

The yield potential of a given variety cannot be predicted with complete accuracy. Consequently, replicate plots of all varieties are evaluated for yield, and the yield of a given variety is estimated as the mean of all replicate plots of that variety. Yields vary somewhat from one replicate plot to another, which introduces a certain degree of error to the estimation of yield potential. This natural variation is often responsible for yield differences among different varieties. Thus, even if the mean yields of two varieties are numerically different, they are not necessarily significantly different in terms of yield potential. In other words, the ability to measure yield is not precise enough to determine whether such small differences are observed purely by chance or because of superior performance.

The least significant difference (LSD) is an estimate of the smallest difference between two varieties that can be declared to be the result of something other than random variation in a particular trial. Consider the following example for a given trial:

Variety	Yield
Abe	60 bu/A
Bill	55 bu/A
Charlie	51 bu/A
LSD	7 bu/A

The difference between variety Abe and variety Bill is 5 bushels per acre (60 - 55 = 5). This difference is smaller than the LSD (7 bushels per acre).

Consequently, it is concluded that variety Abe and variety Bill have the same yield potential, since the observed difference occurred purely due to chance.

The difference between variety Abe and variety Charlie is 9 bushels per acre (60 - 51 = 9), which is larger than the LSD (7 bushels per acre). Therefore, it is concluded that the yield potential of variety Abe is superior to that of variety Charlie, since the difference is larger than would be expected purely by chance.

The coefficient of variation (CV) is a measure of the relative precision of a given trial and is used to compare the relative precision of different trials. The CV is generally considered to be an estimate of the amount of unexplained variation in a given trial. This unexplained variation could be the result of variation between plots with respect to soil type, fertility, insects, diseases, weather stress, or other factors. In general, as the CV increases, the precision in a given trial decreases.

The coefficient of determination (R^2) is another measure of the level of precision in a trial and is also used to compare the relative precision of different trials. The R^2 is a measure of the amount of variation that is explained, or accounted for, in a given trial. For example, an R^2 value of 90% indicates that 90% of the observed variation in the trial has been accounted for in the trial, with the remaining 10% being unaccounted. The higher the R^2 value, the more precise the trial. The R^2 is generally considered to be a better measure of precision than is the CV for comparison of different trials.

WEATHER SUMMARY BY LOCATION

Newton

With adequate soil moisture, the crop emerged well and had good early plant growth. The winter consisted of normal rainfall and temperatures. Disease pressure was minimal. Lodging in many plots ranged from slight to moderate due to some strong thunderstorms in late April and May. Bird damage was minimal, and harvest was timely.

Raymond

Wheat and oat varieties were planted into a conventionally prepared seedbed. Soil moisture was good at planting, and wheat and oat varieties emerged to a good stand. Winter temperatures and rainfall were normal. Considerable freeze damage occurred in early-maturing varieties from 28- to 30-degree temperatures on April 15. There was some disease pressure, and plots were rated. Plots were harvested under ideal conditions.

Brooksville

Excellent growing conditions during the fall allowed the wheat and oats to grow off very rapidly. Wet weather during the spring delayed the topdress nitrogen application, but yields were still good. Leaf rust was the major disease, and stripe rust was very minimal in the plot. One rainfall event at the end of May delayed harvest, but overall a very productive plot.

Olive Branch

Soil moisture at planting was good, and good stands were quickly established. Rainfall was above normal, and temperatures were normal during the growing season. Little or no disease pressure was noted. Harvest was completed on time, and yields were average.

Stoneville

Wheat and oats were planted into a conventionally prepared seedbed. Rainfall after planting brought all plots up to a good stand. Rainfall and temperatures over the course of the growing season were close to normal, and conditions were favorable for good plant growth and development. Disease and insect pressure was light. Harvest was timely, and yields were good.

Issaquena County

The weather for the 2007-08 growing season was moderate for most of the season. Very little excessive cold weather was experienced. Frequent rainfall kept soils wet from late January through mid-March. Heavy rain fell in early April and mid-May.

Cleveland

Conditions for planting wheat were good, and stands were very good. Wet weather all spring hampered fertilizer applications, and most of the fertilizer was applied to wet soil. Other than a couple of cold nights in the middle of April, temperatures were normal. Plots were harvested in a timely manner. There was very little disease pressure during the growing season.

Table 1. Companies supplying oat brands/varieties entered.

University of Florida 155 Research Blvd. Quincy, FL 32351	FL 99212-D6	
Louisiana State University LSU Dept. Of Agronomy 221 M.B. Sturgis Hall Baton Rouge, LA 70803	LA02030-106-S1-B-S1 (Exp.) LA02030SBSBSB-S1 (Exp.) LA02048SBSBSB-S1 (Exp.) LA99011-45-B-S-B-S2 (Exp.)	LA99016 LA99017-275-C-B-S1 (Exp.) LA99017-275-C-B-S2 (Exp.)
Plantation Seed P.O. Box 398 Newton, GA 39870	Horizon 270 (was LA966BSB-270-S2-C) Horizon LA 976 Horizon 201 (was FL 99201-D29-E1)	
Terral Seed Inc. P.O. Box 826 Lake Providence, LA 71254	Terral Trophy	

Table 2. Companies supplying wheat brands/varieties entered.

778 CR 680 Bay, AR 72411	AgriPro Coker Magnolia AgriPro Coker Panola AgriPro Coker 9553	AgriPro Coker D03*9804 (Exp.) AgriPro Coker X3443 (Exp.)
AgSouth Genetics P.O. Box 72246 Albany, GA 31708	AGS 2010 AGS 2020 (was GA 96693-4E16) AGS 2060	
B&S Seed Co., Inc. 1283 Hwy. 444 Duncan, MS 38740	Dixie Bell DB2100 Dixie Bell DB2125 Dixie Bell DB2150	Dixie Bell DB3440 Dixie Bell DB7411 Dixie Bell DB7440
Cache River Valley Seed P.O. Box 10 Cash, AR 72421	Dixie 989 Dixie 907 Dixie X427 (Exp.)	Dixie X454 (Exp.) Dixie X950 (Exp.)
Cullum Seed P.O. Box 178 Fisher, AR 72429	Armor 5110 DK 7710	DK 9108 DK 9577
Delta Grow Seed P.O. Box 219 England, AR 72046	Delta Grow 1600 Delta Grow 5200 Delta Grow 7400	
University of Georgia UGA-CAES-Griffin Campus 1109 Experiment St. Griffin, GA 30223	GA-02603CT-7 (Exp.) GA-981621-5E34 (Exp.) GA-981622-5E35 (Exp.)	
Louisiana State University School of PSS 104 M.B. Sturgis Hall Baton Rouge, LA 70803	LA01138D-21 (Exp.) LA01140D-70 (Exp.) LA98214D-14-1-2-B (Exp.)	LA99042E-68-C (Exp.) LA99005UC-31-3-C (Exp.)
Hornbeck Seed Company P.O. Box 472 DeWitt, AR 72042	HBK 3128 HBK 3266	
Pioneer Hi-Bred Intl. 600 Blvd South Huntsville, AL 35802	Pioneer variety 26R15 Pioneer variety 26R22 Pioneer variety 26R87	
Progeny Ag Products 1529 Hwy. 193 Wynne, AR 72396	Progeny 145 Progeny 166 Progeny 185	Progeny 117 (Exp.) Progeny 122 (Exp.) Progeny 127 (Exp.)
Terral Seed Inc. P.O. Box 826 Lake Providence, LA 71254	Terral LA482 Terral LA841 Terral TV8331 Terral TV8466	Terral TV8558 Terral TVX81170 (Exp.) Terral TVX85089 (Exp.) Terral TVX85771 (Exp.)
UniSouth Genetics, Inc. 2640-C Nolensville Rd. Nashville, TN 37211	USG 3209 USG 3295 USG 3342 USG 3350	USG 3555 USG 3592 USG 3665 USG 3725 (was JGL 701)
E. Virginia Ag. Res. and Ext. Center 2229 Menokin Road Warsaw, VA 22572	Jamestown VA01W-205 (Exp.) VA03W-434 (Exp.)	

Table 3. 2008 yield summary of wheat variety trials in Mississippi.¹

Brand/Variety	Brooksville	Olive Branch	North Avg.	Newton	Raymond	South Avg.	Cleveland	Issaquena County	Stoneville	Delta Avg.	Location Avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriPro Coker Beretta	76.1	62.1	69.1	60.8	67.3	64.1	61.0	84.4	82.2	75.9	69.7
AgriPro Coker MAGNOLIA	94.6	63.3	79.0	67.1	45.4	56.3	60.3	83.8	81.7	75.3	70.2
AgriPro Coker Panola	77.3	60.9	69.1	53.2	59.9	56.6	63.5	82.6	84.4	76.8	67.5
AgriPro Coker 9553	77.0	60.9	69.0	64.9	48.8	56.9	66.4	75.1	80.5	74.0	66.6
AgriPro Coker 9700	84.8	59.0	71.9	59.3	52.7	56.0	61.9	60.6	83.8	68.8	65.6
AgriPro Coker D03*9804 (Exp.)	74.0	58.4	66.2	54.1	66.5	60.3	64.5	82.2	84.6	77.1	67.9
AgriPro Coker X3443 (Exp.)	82.5	71.9	77.2	60.0	50.0	55.0	62.4	86.7	78.0	75.7	69.3
AGS 2010	75.7	56.9	66.3	59.1	40.7	49.9	51.0	63.0	84.9	66.3	60.8
AGS 2020	81.1	65.8	73.5	67.5	35.8	51.7	60.6	80.4	88.3	76.4	67.2
AGS 2060	74.7	74.1	74.4	69.9	44.0	57.0	62.6	80.0	96.7	79.8	70.4
Armor 5110	73.0	61.6	67.3	54.3	68.8	61.6	66.7	71.9	81.7	73.4	67.4
Delta Grow 1600	70.6	49.5	60.1	55.3	68.0	61.7	53.9	71.0	75.7	66.9	62.9
Delta Grow 5200	77.0	52.8	64.9	52.4	64.6	58.5	62.2	76.9	79.2	72.8	65.4
Delta Grow 7400	63.3	55.4	59.4	57.3	74.9	66.1	59.8	74.4	75.4	69.9	65.1
Dixie 989	57.7	56.9	57.3	59.0	68.7	63.9	59.7	68.6	74.1	67.5	62.9
Dixie 907	76.4	60.9	68.7	58.1	70.2	64.2	62.3	71.8	77.2	70.4	67.7
Dixie X427 (Exp.)	59.0	56.6	57.8	56.9	72.5	64.7	63.8	88.0	87.7	79.8	67.4
Dixie X454 (Exp.)	81.4	71.5	76.5	66.5	70.7	68.6	70.5	86.3	82.6	79.8	75.0
Dixie X950 (Exp.)	75.2	61.3	68.3	60.4	66.3	63.4	63.8	82.4	80.7	75.6	69.1
Dixie Bell DB2100	76.2	64.0	70.1	59.3	69.9	64.6	68.3	85.4	87.5	80.4	71.7
Dixie Bell DB2125	74.4	60.7	67.6	57.0	65.4	61.2	66.2	73.3	77.6	72.4	67.0
Dixie Bell DB2150	69.3	64.8	67.1	45.4	61.7	53.6	65.9	74.8	82.4	74.4	65.0
Dixie Bell DB3440	80.0	47.9	64.0	52.9	57.9	55.4	59.1	70.5	79.1	69.6	63.0
Dixie Bell DB7411	87.7	56.0	71.9	55.7	47.3	51.5	59.5	77.9	82.5	73.3	65.6
Dixie Bell DB7440	66.7	61.1	63.9	46.3	61.8	54.1	62.1	75.4	82.3	73.3	63.7
DK 7710	68.9	68.6	68.8	48.1	68.6	58.4	59.5	67.6	82.9	70.0	65.7
DK 9108	86.0	71.3	78.7	55.9	55.2	55.6	55.0	68.5	79.6	67.7	67.3
DK 9577	81.3	68.5	74.9	61.9	70.0	66.0	60.8	82.7	83.3	75.6	72.2
GA-02603CT-7 (Exp.)	67.1	45.4	56.3	57.9	42.8	50.4	57.8	76.9	80.0	71.6	59.2
GA-981621-5E34 (Exp.)	77.1	66.5	71.8	66.1	54.1	60.1	72.0	94.0	88.3	84.8	72.2
GA-981622-5E35 (Exp.)	74.4	59.6	67.0	66.2	40.8	53.5	73.8	96.7	88.0	86.2	68.9
HBK 3128	64.7	62.2	63.5	52.7	66.2	59.5	62.0	85.1	85.2	77.4	66.8
HBK 3266	79.3	58.2	68.8	69.7	57.8	63.8	64.5	88.2	84.2	79.0	70.5
LA01138D-21 (Exp.)	82.2	55.3	68.8	64.7	32.7	48.7	60.8	86.0	80.5	75.8	64.4
LA01140D-70 (Exp.)	78.8	63.0	70.9	63.1	44.7	53.9	63.3	81.1	87.2	77.2	67.3
LA98214D-14-1-2-B (Exp.)	84.0	59.8	71.9	56.9	60.2	58.6	64.5	77.7	86.4	76.2	68.9
LA99042E-68-C (Exp.)	72.3	54.4	63.4	41.0	38.0	39.5	61.2	77.3	82.3	73.6	58.8
LA99005UC-31-3-C (Exp.)	86.9	56.7	71.8	56.9	49.2	53.1	70.0	73.1	85.7	76.3	67.0
Pioneer variety 26R15	90.9	56.3	73.6	61.4	65.3	63.4	62.1	77.6	84.1	74.6	70.5
Pioneer variety 26R22	84.6	57.6	71.1	54.2	60.1	57.2	68.7	76.7	83.2	76.2	68.2
Pioneer variety 26R87	86.0	60.5	73.3	76.7	55.6	66.2	71.5	82.1	79.8	77.8	72.4
Progeny 145	76.7	57.1	66.9	49.8	57.6	53.7	60.6	78.2	78.5	72.4	64.3
Progeny 166	72.5	61.9	67.2	61.1	73.2	67.2	64.8	76.4	81.9	74.4	69.6
Progeny 185	77.8	58.0	67.9	70.2	63.1	66.7	59.0	80.2	78.1	72.4	69.0
Progeny 117 (Exp.)	71.1	59.6	65.4	58.5	56.0	57.3	57.9	76.3	84.5	72.9	65.2
Progeny 122 (Exp.)	69.4	58.4	63.9	42.5	57.3	49.9	57.1	62.6	71.5	63.7	59.2
Progeny 127 (Exp.)	72.9	51.9	62.4	48.4	55.0	51.7	51.3	65.3	70.9	62.5	58.9
Terral LA482	83.3	51.1	67.2	61.6	44.1	52.9	67.3	59.2	76.4	67.6	62.6
Terral LA841	81.2	49.9	65.6	64.2	42.4	53.3	68.4	89.0	85.9	81.1	66.7
Terral TV8331	72.7	65.6	69.2	58.3	64.1	61.2	59.5	77.8	86.4	74.6	68.3
Terral TV8466	82.5	62.6	72.6	59.3	65.2	62.3	64.0	84.1	85.4	77.8	70.9
Terral TV8558	71.7	66.4	69.1	55.6	68.1	61.9	67.7	77.7	77.4	74.3	68.4
Terral TVX81170 (Exp.)	83.8	69.2	76.5	58.7	66.8	62.8	63.7	80.9	83.6	76.1	71.8
Terral TVX85089 (Exp.)	73.6	63.1	68.4	50.1	75.8	63.0	61.0	86.5	82.9	76.8	69.4
Terral TVX85771 (Exp.)	77.5	47.6	62.6	58.7	43.2	51.0	63.8	56.7	86.4	69.0	60.8
USG 3209	74.4	58.7	66.6	55.8	49.6	52.7	58.2	79.1	82.9	73.4	64.2
USG 3295	50.4	51.6	51.0	73.6	69.4	71.5	69.4	89.5	83.4	80.8	67.8
USG 3342	48.8	47.7	48.3	61.0	51.0	56.0	54.1	71.3	67.6	64.3	56.2
USG 3350	67.8	64.7	66.3	62.0	69.9	66.0	67.0	76.5	83.1	75.5	69.2
USG 3555	56.7	64.0	60.4	74.4	60.1	67.3	64.5	87.9	85.6	79.3	69.0
USG 3592	75.2	59.5	67.4	66.0	73.5	69.8	59.2	78.7	86.8	74.9	70.7
USG 3665	71.6	64.3	68.0	62.7	69.4	66.1	64.4	78.7	75.5	72.9	69.0
USG 3725	71.3	68.7	70.0	45.7	60.7	53.2	63.5	73.4	80.3	72.4	65.2
VA Jamestown	71.1	56.7	63.9	57.2	46.4	51.8	68.4	91.9	82.3	80.9	65.5

¹Yields in bold indicate the same yield potential based on Least Significant Difference from the statistical analysis.

Table 3 (continued). 2008 yield summary of wheat variety trials in Mississippi.¹

Brand/Variety	Brooksville	Olive Branch	North Avg.	Newton	Raymond	South Avg.	Cleveland	Issaquena County	Stoneville	Delta Avg.	Location Avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
VA01W-205 (Exp.)	75.4	62.3	68.9	67.8	68.5	68.2	72.2	89.5	85.4	82.4	73.1
VA03W-434 (Exp.)	75.6	55.8	65.7	63.7	63.5	63.6	60.8	76.9	74.8	70.8	66.7
Overall Mean	75.8	59.9	67.9	59.1	58.7	58.9	62.9	78.2	82.0	74.4	67.0
LSD (.10)	13.3	9.0		6.4	10.6		6.9	8.3	6.6		
Error degrees of freedom	195	195		195	195		195	195	195		
CV (%)	15.1	12.8		9.3	15.4		9.3	9.1	6.9		
R ² (%)	46	48		71	68		49	66	69		

¹Yields in bold indicate the same yield potential based on Least Significant Difference from the statistical analysis.

Table 4. Two-year summary of yields for wheat variety trials in Mississippi.

Brand/Variety	Brooksville (North)	Newton	Raymond	South Avg.	Cleveland	Stoneville	Delta Avg.	Location Avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriPro Coker Beretta	82.5	59.5	69.8	64.7	58.5	77.0	67.8	71.6
AgriPro Coker Magnolia	88.9	66.7	68.7	67.7	56.3	80.0	68.2	74.9
AgriPro Coker Panola	83.0	55.4	73.5	64.5	53.6	80.7	67.2	71.5
AgriPro Coker 9553	82.8	63.4	69.4	66.4	56.9	83.7	70.3	73.2
AgriPro Coker 9700	85.3	57.4	50.5	54.0	50.9	80.8	65.9	68.4
AGS 2010	78.5	49.4	51.3	50.4	47.4	83.4	65.4	64.8
AGS 2020	91.4	69.7	60.6	65.2	59.5	85.1	72.3	76.3
AGS 2060	79.4	65.1	70.3	67.7	57.0	86.0	71.5	72.9
Armor 5110	76.0	55.5	73.7	64.6	59.4	79.9	69.7	70.1
Delta Grow 1600	76.8	57.2	68.3	62.8	49.9	71.6	60.8	66.8
Delta Grow 5200	78.8	53.6	68.8	61.2	58.4	76.9	67.7	69.2
Delta King 7710	80.1	50.6	69.6	60.1	63.1	79.3	71.2	70.5
Delta King 9577	85.1	62.1	68.2	65.2	54.2	81.9	68.1	72.8
Delta King 9108	87.4	58.7	61.3	60.0	52.1	79.0	65.6	71.0
Dixie 989	71.0	59.7	68.3	64.0	55.2	73.6	64.4	66.5
Dixie X427 (Exp.)	73.7	58.4	73.2	65.8	61.3	84.3	72.8	70.8
Dixie Bell DB2125	80.4	55.3	64.4	59.9	59.9	78.9	69.4	69.9
Dixie Bell DB3440	78.0	53.4	54.3	53.9	52.7	75.2	64.0	65.3
Dixie Bell DB7440	77.5	51.8	65.4	58.6	56.8	80.8	68.8	68.3
HBK 3266	84.0	64.5	74.8	69.7	58.4	80.3	69.4	74.3
LA98214D-14-1-2-B (Exp.)	83.9	54.0	68.3	61.2	57.1	82.3	69.7	71.6
LA99005UC-31-3-C (Exp.)	90.1	59.4	69.8	64.6	61.3	78.3	69.8	74.8
Pioneer variety 26R15	88.5	55.4	63.5	59.5	60.4	82.5	71.5	73.1
Pioneer variety 26R22	88.8	55.5	73.3	64.4	61.6	84.2	72.9	75.4
Pioneer variety 26R87	86.7	64.5	72.2	68.4	56.8	78.5	67.7	74.2
Progeny 145	81.4	53.0	61.7	57.4	58.4	74.1	66.3	68.3
Progeny 166	76.0	59.3	73.7	66.5	59.3	79.0	69.2	70.6
Progeny 185	80.1	66.7	69.4	68.1	51.2	78.3	64.8	71.0
Terral LA482	88.7	60.6	55.2	57.9	54.4	77.8	66.1	70.9
Terral LA841	80.9	58.0	62.5	60.3	58.7	81.1	69.9	70.4
Terral TV8331	78.8	56.0	71.0	63.5	53.2	80.9	67.1	69.8
Terral TV8466	85.8	56.5	65.8	61.2	57.5	79.1	68.3	71.8
Terral TV8558	80.3	57.9	71.9	64.9	59.5	78.3	68.9	71.4
Terral TVX81170 (Exp.)	86.7	59.3	69.8	64.6	60.4	76.6	68.5	73.3
USG 3209	81.5	58.5	66.0	62.3	54.1	80.0	67.1	70.3
USG 3295	67.7	65.5	77.9	71.7	59.5	81.1	70.3	69.9
USG 3350	73.8	58.9	72.4	65.7	57.8	81.7	69.8	69.7
USG 3592	84.2	64.0	74.9	69.5	56.2	82.5	69.4	74.3
USG 3725	84.1	54.2	50.3	52.3	57.8	81.2	69.5	68.6
Overall Mean	81.7	58.6	67.0	62.8	56.8	79.9	68.4	71.0

Table 5. Three-year summary of yields for wheat variety trials in Mississippi.

Brand/Variety	Brooksville (North)	Newton	Raymond	South Avg.	Cleveland	Stoneville	Delta Avg.	Location Avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriPro Coker Beretta	84.1	64.4	68.6	66.5	78.5	80.6	79.6	79.6
AgriPro Coker Magnolia	89.6	79.0	74.9	77.0	77.2	86.0	81.6	82.7
AgriPro Coker Panola	84.8	70.1	69.3	69.7	74.7	83.0	78.9	77.8
AgriPro Coker 9553	82.8	74.1	83.5	78.8	75.3	85.2	80.3	80.6
AGS 2060	78.4	77.9	74.9	76.4	74.8	89.3	82.1	79.0
Armor 5110	86.3	57.5	67.3	62.4	81.4	75.5	78.5	75.7
Delta Grow 1600	81.9	71.2	69.9	70.6	73.1	75.0	74.1	75.5
Delta Grow 5200	81.2	60.2	64.5	62.4	81.5	72.3	76.9	73.5
Delta King 7710	85.6	65.9	71.1	68.5	81.2	84.1	82.7	78.9
Delta King 9577	90.3	71.8	69.4	70.6	78.0	80.0	79.0	80.0
Delta King 9108	83.8	73.9	66.2	70.1	75.6	80.6	78.1	77.3
Dixie 989	77.7	73.7	70.1	71.9	78.5	78.0	78.3	76.0
Dixie Bell DB2125	85.5	60.4	56.8	58.6	82.2	78.4	80.3	74.8
Dixie Bell DB3440	81.5	63.3	60.1	61.7	73.5	69.5	71.5	71.6
HBK 3266	85.2	75.4	79.4	77.4	73.3	83.0	78.2	80.3
Pioneer variety 26R15	90.3	68.3	75.5	71.9	84.9	84.1	84.5	82.2
Pioneer variety 26R22	97.3	74.9	90.9	82.9	84.9	91.7	88.3	89.5
Progeny 145	81.7	55.9	57.7	56.8	76.5	70.1	73.3	70.6
Progeny 166	84.5	63.8	67.5	65.7	76.8	78.4	77.6	75.9
Progeny 185	81.1	79.0	71.6	75.3	75.1	79.5	77.3	77.9
Terral LA841	84.1	66.9	70.3	68.6	75.1	69.2	72.2	75.0
Terral TV8331	86.2	68.4	76.5	72.5	74.3	86.1	80.2	79.6
Terral TV8466	87.2	68.0	67.5	67.8	74.3	78.8	76.6	77.2
Terral TV8558	86.2	71.5	67.6	69.6	77.6	78.1	77.9	77.9
USG 3209	85.9	77.8	63.8	70.8	76.4	65.2	70.8	75.8
USG 3350	80.3	62.3	66.5	64.4	80.5	79.4	80.0	74.9
USG 3592	82.4	80.5	77.6	79.1	80.0	82.0	81.0	80.8
Overall Mean	84.6	69.5	70.3	69.9	77.6	82.3	80.0	78.2

Table 6. Yields of 66 wheat varieties at Todd Williams Farm, Olive Branch (Collin silt loam soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield ²	3-year avg. yield ²	Test weight	Seed weight	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
AGS2060	74.1	—	—	62	37	4/23	41	1
AgriPro Coker X3443	71.9	—	—	59	31	4/26	34	1
Dixie X454	71.5	—	—	62	31	5/3	36	1
DK 9108	71.3	—	—	58	31	4/26	36	1
Terral TVX81170	69.2	—	—	57	29	5/5	34	1
USG 3725	68.7	—	—	58	25	5/3	36	1
DK 7710	68.6	—	—	60	30	5/3	40	1
DK 9577	68.5	—	—	59	24	5/2	36	1
GA-981621-5E34	66.5	—	—	62	34	5/1	40	1
Terral TV8558	66.4	—	—	58	24	5/2	36	1
AGS 2020	65.8	—	—	60	38	4/23	33	1
Terral TV8331	65.6	—	—	60	29	5/3	37	1
Dixie Bell DB2150	64.8	—	—	59	31	4/25	38	1
USG 3350	64.7	—	—	58	26	5/2	39	1
USG 3665	64.3	—	—	57	31	5/3	38	1
Dixie Bell DB2100	64.0	—	—	55	26	5/3	37	1
USG 3555	64.0	—	—	60	37	4/26	30	1
AgriPro Coker MAGNOLIA	63.3	—	—	60	30	5/3	37	1
Terral TVX85089	63.1	—	—	57	24	5/6	36	1
LA01140D-70	63.0	—	—	61	35	4/23	41	1
Terral TV8466	62.6	—	—	59	37	5/3	39	1
VA01W-205	62.3	—	—	61	30	4/29	30	1
HBK 3128	62.2	—	—	59	32	5/4	34	1
AgriPro Coker Beretta	62.1	—	—	57	23	5/3	35	1

Continued.

Table 6 (continued). Yields of 66 wheat varieties at Todd Williams Farm, Olive Branch (Collin silt loam soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield ²	3-year avg. yield ²	Test weight	Seed weight	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Progeny 166	61.9	—	—	59	29	5/2	40	1
Armor 5110	61.6	—	—	58	25	5/3	38	1
Dixie X950	61.3	—	—	57	21	5/2	36	1
Dixie Bell DB7440	61.1	—	—	59	28	4/26	39	1
AgriPro Coker 9553	60.9	—	—	62	34	4/23	34	1
AgriPro Coker Panola	60.9	—	—	59	30	4/23	35	1
Dixie 907	60.9	—	—	57	25	5/3	39	1
Dixie Bell DB2125	60.7	—	—	61	27	5/1	39	1
Pioneer variety 26R87	60.5	—	—	64	40	4/23	34	1
LA98214D-14-1-2-B	59.8	—	—	59	31	4/23	39	1
Progeny 117	59.6	—	—	60	27	4/23	36	1
GA-981622-5E35	59.6	—	—	61	42	4/23	40	1
USG 3592	59.5	—	—	62	27	5/2	37	1
AgriPro Coker 9700	59.0	—	—	61	35	4/20	32	1
USG 3209	58.7	—	—	59	28	4/26	32	1
AgriPro Coker DO3*9804	58.4	—	—	61	25	4/25	35	1
Progeny 122	58.4	—	—	58	29	5/6	39	1
HBK 3266	58.2	—	—	60	36	4/27	33	1
Progeny 185	58.0	—	—	58	31	5/3	34	1
Pioneer variety 26R22	57.6	—	—	59	28	5/3	38	1
Progeny 145	57.1	—	—	58	26	4/27	40	1
Dixie 989	56.9	—	—	58	21	5/3	37	1
AGS 2010	56.9	—	—	61	34	4/23	35	1
VA Jamestown	56.7	—	—	63	36	4/23	32	1
LA99005UC-31-3-C	56.7	—	—	60	34	4/23	33	1
Dixie X427	56.6	—	—	56	24	5/1	35	1
Pioneer variety 26R15	56.3	—	—	58	25	5/2	36	1
Dixie Bell DB7411	56.0	—	—	59	26	4/23	37	1
VA03W-434	55.8	—	—	59	20	5/3	30	1
Delta Grow 7400	55.4	—	—	57	26	5/5	41	1
LA01138D-21	55.3	—	—	59	33	4/26	37	1
LA99042E-68-C	54.4	—	—	62	39	4/23	35	1
Delta Grow 5200	52.8	—	—	54	25	5/3	38	1
Progeny 127	51.9	—	—	57	20	5/6	36	1
USG 3295	51.6	—	—	60	27	4/26	33	1
Terral LA482	51.1	—	—	59	39	4/26	36	1
Terral LA841	49.9	—	—	60	31	4/23	35	1
Delta Grow 1600	49.5	—	—	57	25	5/3	36	1
Dixie Bell DB3440	47.9	—	—	58	31	5/5	37	1
USG 3342	47.7	—	—	57	25	4/26	29	1
Terral TVX85771	47.6	—	—	59	28	4/25	35	1
GA-02603CT-7	45.4	—	—	60	36	4/23	34	1
Overall Mean	59.9	—	—					
LSD (.10)	9.0							
Error degrees of freedom	195							
CV (%)	12.8							
R ² (%)	48							
¹ Planted Nov. 7, 2007		Harvested June 9, 2008		Soil fertility: pH=6.1; P=H+; K=H+				
Fertilizer added: Topdress - 34-0-0 @ 300 lb/A		Herbicide: None		Previous crop: Soybeans				
² No 2- or 3-year yields.								
³ See "Procedures" for a description of lodging scores.								

Table 7. Yields of 66 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
AgriPro Coker MAGNOLIA	94.6	88.9	89.6	58	38	4/10	42	1
Pioneer variety 26R15	90.9	88.5	90.3	57	31	4/18	37	1
Dixie Bell DB7411	87.7	—	—	57	31	4/10	42	1
LA99005UC-31-3-C	86.9	90.1	—	58	40	4/5	35	1
Pioneer variety 26R87	86.0	86.7	—	61	45	4/11	38	1
DK 9108	86.0	87.4	83.8	57	38	4/4	43	1
AgriPro Coker 9700	84.8	85.3	—	58	36	4/15	40	1
Pioneer variety 26R22	84.6	88.8	97.3	56	37	4/20	35	1
LA98214D-14-1-2-B	84.0	83.9	—	59	33	4/4	42	1
Terral TVX81170	83.8	86.7	—	56	33	4/24	35	1
Terral LA482	83.3	88.7	—	57	33	4/7	38	1
AgriPro Coker X3443	82.5	—	—	56	28	4/12	38	1
Terral TV8466	82.5	85.8	87.2	57	33	4/19	39	1
LA01138D-21	82.2	—	—	57	36	4/5	36	1
Dixie X454	81.4	—	—	59	34	4/22	39	1
DK 9577	81.3	85.1	90.3	58	31	4/18	38	1
Terral LA841	81.2	80.9	84.1	57	34	4/7	37	1
AGS 2020	81.1	91.4	—	58	32	4/4	39	2
Dixie Bell DB3440	80.0	78.0	81.5	57	33	4/22	38	2
HBK 3266	79.3	84.0	85.2	59	29	4/11	40	1
LA01140D-70	78.8	—	—	58	36	4/10	43	1
Progeny 185	77.8	80.1	81.1	57	29	4/19	38	1
Terral TVX85771	77.5	—	—	57	36	4/5	38	1
AgriPro Coker Panola	77.3	83.0	84.8	57	30	4/18	37	1
GA-981621-5E34	77.1	—	—	58	32	4/9	41	1
AgriPro Coker 9553	77.0	82.8	82.8	59	34	4/15	42	1
Delta Grow 5200	77.0	78.8	81.2	58	30	4/24	39	1
Progeny 145	76.7	81.4	81.7	57	27	4/18	39	1
Dixie 907	76.4	—	—	57	30	4/23	42	1
Dixie Bell DB2100	76.2	—	—	58	30	4/20	41	1
AgriPro Coker Beretta	76.1	82.5	84.1	56	32	4/24	36	1
AGS 2010	75.7	78.5	—	59	33	4/13	40	1
VA03W-434	75.6	—	—	58	25	4/21	33	1
VA01W-205	75.4	—	—	56	28	4/18	31	1
Dixie X950	75.2	—	—	58	28	4/18	36	1
USG 3592	75.2	84.2	82.4	59	30	4/20	38	1
AGS2060	74.7	79.4	78.4	61	38	4/4	45	1
GA-981622-5E35	74.4	—	—	59	42	4/4	42	1
Dixie Bell DB2125	74.4	80.4	85.5	57	33	4/18	42	1
USG 3209	74.4	81.5	85.9	57	31	4/8	34	1
AgriPro Coker DO3*9804	74.0	—	—	56	29	4/16	38	1
Terral TVX85089	73.6	—	—	56	26	4/24	34	1
Armor 5110	73.0	76.0	86.3	58	29	4/20	38	1
Progeny 127	72.9	—	—	57	29	4/24	38	1
Terral TV8331	72.7	78.8	86.2	56	35	4/18	38	1
Progeny 166	72.5	76.0	84.5	56	30	4/24	40	1
LA99042E-68-C	72.3	—	—	59	42	4/4	42	1
Terral TV8558	71.7	80.3	86.2	58	27	4/7	39	1
USG 3665	71.6	—	—	58	29	4/18	38	1
USG 3725	71.3	84.1	—	54	26	4/21	38	1
VA Jamestown	71.1	—	—	59	28	4/4	34	1
Progeny 117	71.1	—	—	57	33	4/23	39	1
Delta Grow 1600	70.6	76.8	81.9	56	28	4/24	35	1
Progeny 122	69.4	—	—	57	34	4/24	39	1
Dixie Bell DB2150	69.3	—	—	57	32	4/19	44	1
DK 7710	68.9	80.1	85.6	57	31	4/24	40	1
USG 3350	67.8	73.8	80.3	57	32	4/24	40	1
GA-02603CT-7	67.1	—	—	59	41	4/4	38	1
Dixie Bell DB7440	66.7	77.5	—	58	33	4/24	40	1
HBK 3128	64.7	—	—	56	34	4/24	30	1
Delta Grow 7400	63.3	—	—	59	29	4/24	40	1
Dixie X427	59.0	73.7	—	57	32	4/11	40	1

Continued.

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Dixie 989	57.7	71.0	77.7	57	26	4/24	41	1
USG 3555	56.7	—	—	56	36	4/15	30	1
USG 3295	50.4	67.7	—	57	39	4/21	30	1
USG 3342	48.8	—	—	55	29	4/21	29	1
Overall Mean	75.8	81.7	84.6					
LSD (.10)	13.3							
Error degrees of freedom	195							
CV (%)	15.1							
R ² (%)	46							
¹ Planted Nov. 9, 2007		Harvested June 9, 2008		Soil fertility: pH=6.2; P=M; K=M		Herbicide: None		
Fertilizer added: Preplant – 13-13-13 @ 300 lb/A; Topdress – N @ 90 lb/A				Previous crop: Soybeans				
² See "Procedures" for a description of lodging scores.								

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight	Date headed ²	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
GA-981622-5E35	73.8	—	—	60	43	—	36	1
VA01W-205	72.2	—	—	59	27	—	31	2
GA-981621-5E34	72.0	—	—	58	39	—	39	1
Pioneer variety 26R87	71.5	56.8	—	62	46	—	36	1
Dixie X454	70.5	—	—	59	31	—	37	2
LA99005UC-31-3-C	70.0	61.3	—	60	32	—	34	2
USG 3295	69.4	59.5	—	60	33	—	35	1
Pioneer variety 26R22	68.7	61.6	84.9	56	26	—	37	1
VA Jamestown	68.4	—	—	61	30	—	32	2
Terral LA841	68.4	58.7	75.1	60	36	—	33	1
Dixie Bell DB2100	68.3	—	—	58	27	—	37	2
Terral TV8558	67.7	59.5	77.6	57	20	—	36	2
Terral LA482	67.3	54.4	—	59	29	—	35	1
USG 3350	67.0	57.8	80.5	59	25	—	40	2
Armor 5110	66.7	59.4	81.4	58	34	—	39	2
AgriPro Coker 9553	66.4	56.9	75.3	60	34	—	36	1
Dixie Bell DB2125	66.2	59.9	82.2	58	27	—	37	1
Dixie Bell DB2150	65.9	—	—	59	29	—	40	2
Progeny 166	64.8	59.3	76.8	58	30	—	40	2
HBK 3266	64.5	58.4	73.3	59	31	—	37	2
AgriPro Coker DO3*9804	64.5	—	—	58	30	—	34	1
LA98214D-14-1-2-B	64.5	57.1	—	60	35	—	35	2
USG 3555	64.5	—	—	59	38	—	32	1
USG 3665	64.4	—	—	55	20	—	36	2
Terral TV8466	64.0	57.5	74.3	58	31	—	38	1
Terral TVX85771	63.8	—	—	59	34	—	36	1
Dixie X427	63.8	61.3	—	57	30	—	32	3
Dixie X950	63.8	—	—	57	20	—	35	2
Terral TVX81170	63.7	60.4	—	54	31	—	34	1
USG 3725	63.5	57.8	—	55	25	—	36	2
AgriPro Coker Panola	63.5	53.6	74.7	57	28	—	33	1
LA01140D-70	63.3	—	—	60	41	—	38	2
AGS2060	62.6	57.0	74.8	60	34	—	35	2
AgriPro Coker X3443	62.4	—	—	57	28	—	37	1
Dixie 907	62.3	—	—	58	30	—	36	2
Delta Grow 5200	62.2	58.4	81.5	57	29	—	35	1
Pioneer variety 26R15	62.1	60.4	84.9	58	27	—	37	2
Dixie Bell DB7440	62.1	56.8	—	58	27	—	39	2
HBK 3128	62.0	—	—	59	30	—	37	3
AgriPro Coker 9700	61.9	50.9	—	60	36	—	34	1
Continued.								

Table 8 (continued). Yields of 66 wheat varieties at G.R. Harden Farm, Cleveland (Brittain silt loam soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight	Date headed ²	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
LA99042E-68-C	61.2	—	—	60	29	—	36	2
Terral TVX85089	61.0	—	—	56	27	—	37	1
AgriPro Coker Beretta	61.0	58.5	78.5	57	25	—	34	1
DK 9577	60.8	54.2	78.0	57	26	—	37	1
VA03W-434	60.8	—	—	57	27	—	33	1
LA01138D-21	60.8	—	—	58	29	—	33	2
AGS 2020	60.6	59.5	—	59	37	—	35	2
Progeny 145	60.6	58.4	76.5	58	25	—	39	2
AgriPro Coker MAGNOLIA	60.3	56.3	77.2	58	30	—	38	1
Delta Grow 7400	59.8	—	—	60	30	—	35	2
Dixie 989	59.7	55.2	78.5	55	22	—	38	2
DK 7710	59.5	63.1	81.2	59	31	—	37	1
Dixie Bell DB7411	59.5	—	—	58	26	—	35	4
Terral TV8331	59.5	53.2	74.3	57	30	—	37	1
USG 3592	59.2	56.2	80.0	56	25	—	34	2
Dixie Bell DB3440	59.1	52.7	73.5	55	23	—	36	3
Progeny 185	59.0	51.2	75.1	55	19	—	39	2
USG 3209	58.2	54.1	77.6	56	27	—	33	3
Progeny 117	57.9	—	—	58	26	—	37	3
GA-02603CT-7	57.8	—	—	59	36	—	33	1
Progeny 122	57.1	—	—	54	24	—	38	2
DK 9108	55.0	52.1	75.6	58	37	—	34	2
USG 3342	54.1	—	—	57	29	—	32	1
Delta Grow 1600	53.9	49.9	73.1	54	23	—	30	2
Progeny 127	51.3	—	—	54	20	—	39	1
AGS 2010	51.0	47.4	—	59	29	—	38	2
Overall Mean	62.9	56.8	77.6					
LSD (.10)	6.9							
Error degrees of freedom	195							
CV (%)	9.3							
R ² (%)	49							

¹Planted Nov. 9, 2007

Harvested June 17, 2008

Soil fertility: pH=6.9; P=H; K=H

Fertilizer added: 41-0-0-4 @ 300 lb/A

Herbicide: Harmony @ .75 oz/A + NIS @ .005%

Previous crop: Corn

²No maturity dates were taken.³See "Procedures" for a description of lodging scores.**Table 9. Yields of 66 wheat varieties at Gene Boykin Farm, Issaquena County (Tunica clay soil).¹**

Brand/Variety	2007-08 yield	2-year avg. yield ²	3-year avg. yield ²	Test weight	Seed weight	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
GA-981622-5E35	96.7	—	—	60	44	4/9	44	1
GA-981621-5E34	94.0	—	—	60	36	4/12	42	1
VA Jamestown	91.9	—	—	60	28	4/8	39	1
USG 3295	89.5	—	—	60	35	4/16	37	1
VA01W-205	89.5	—	—	60	31	4/14	34	1
Terral LA841	89.0	—	—	58	34	4/8	38	1
HBK 3266	88.2	—	—	59	34	4/9	42	1
Dixie X427	88.0	—	—	58	31	4/12	38	1
USG 3555	87.9	—	—	59	37	4/15	35	1
AgriPro Coker X3443	86.7	—	—	57	31	4/11	38	1
Terral TVX85089	86.5	—	—	57	27	4/19	40	1
Dixie X454	86.3	—	—	60	32	4/16	41	1
LA01138D-21	86.0	—	—	58	34	4/7	44	1
Dixie Bell DB2100	85.4	—	—	59	27	4/14	43	1
HBK 3128	85.1	—	—	59	31	4/18	41	1
AgriPro Coker Beretta	84.4	—	—	58	29	4/18	38	1
Terral TV8466	84.1	—	—	59	34	4/15	41	1

Continued.

Table 9 (continued). Yields of 66 wheat varieties at Gene Boykin Farm, Issaquena County (Tunica clay soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield ²	3-year avg. yield ²	Test weight	Seed weight	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
AgriPro Coker MAGNOLIA	83.8	—	—	58	35	4/11	40	1
DK 9577	82.7	—	—	59	28	4/13	41	1
AgriPro Coker Panola	82.6	—	—	57	30	4/13	39	1
Dixie X950	82.4	—	—	57	28	4/13	40	1
AgriPro Coker DO3*9804	82.2	—	—	58	28	4/13	41	1
Pioneer variety 26R87	82.1	—	—	61	42	4/11	40	1
LA01140D-70	81.1	—	—	59	41	4/6	45	1
Terral TVX81170	80.9	—	—	57	32	4/18	35	1
AGS 2020	80.4	—	—	59	41	4/7	40	1
Progeny 185	80.2	—	—	57	30	4/16	39	1
AGS2060	80.0	—	—	60	38	4/4	43	1
USG 3209	79.1	—	—	59	34	4/12	36	1
USG 3592	78.7	—	—	60	28	4/16	42	1
USG 3665	78.7	—	—	58	27	4/19	42	1
Progeny 145	78.2	—	—	58	29	4/15	44	1
Dixie Bell DB7411	77.9	—	—	58	36	4/8	42	1
Terral TV8331	77.8	—	—	58	38	4/15	41	1
LA98214D-14-1-2-B	77.7	—	—	58	35	4/5	42	1
Terral TV8558	77.7	—	—	58	23	4/16	39	1
Pioneer variety 26R15	77.6	—	—	59	32	4/14	40	1
LA99042E-68-C	77.3	—	—	59	45	4/5	44	1
GA-02603CT-7	76.9	—	—	58	46	3/31	41	1
Delta Grow 5200	76.9	—	—	59	27	4/18	43	1
VA03W-434	76.9	—	—	57	23	4/18	37	1
Pioneer variety 26R22	76.7	—	—	57	32	4/19	41	1
USG 3350	76.5	—	—	58	34	4/14	45	1
Progeny 166	76.4	—	—	59	30	4/16	44	1
Progeny 117	76.3	—	—	58	35	4/8	39	1
Dixie Bell DB7440	75.4	—	—	58	32	4/12	45	1
AgriPro Coker 9553	75.1	—	—	60	39	4/13	42	1
Dixie Bell DB2150	74.8	—	—	59	32	4/10	42	1
Delta Grow 7400	74.4	—	—	61	30	4/19	44	1
USG 3725	73.4	—	—	55	27	4/18	41	1
Dixie Bell DB2125	73.3	—	—	59	34	4/12	43	1
LA99005UC-31-3-C	73.1	—	—	59	34	3/31	39	1
Armor 5110	71.9	—	—	60	30	4/16	42	1
Dixie 907	71.8	—	—	59	31	4/15	44	1
USG 3342	71.3	—	—	58	33	4/15	30	1
Delta Grow 1600	71.0	—	—	57	24	4/18	40	1
Dixie Bell DB3440	70.5	—	—	58	26	4/18	41	1
Dixie 989	68.6	—	—	57	27	4/17	41	1
DK 9108	68.5	—	—	58	35	4/8	44	1
DK 7710	67.6	—	—	59	30	4/17	43	1
Progeny 127	65.3	—	—	56	26	4/18	40	1
AGS 2010	63.0	—	—	59	33	4/13	40	1
Progeny 122	62.6	—	—	56	32	4/23	38	1
AgriPro Coker 9700	60.6	—	—	58	39	4/5	38	1
Terral LA482	59.2	—	—	59	36	4/1	41	1
Terral TVX85771	56.7	—	—	58	36	4/5	40	1
Overall Mean	78.2	—	—					
LSD (.10)	8.3							
Error degrees of freedom	195							
CV (%)	9.1							
R ² (%)	66							

¹Planted Nov. 6, 2007

Fertilizer added: N – 46-0-0 @ 110 lb/A

Harvested June 6, 2008

Herbicide: 2,4-D @ 1.5 oz/A

Soil fertility: pH=6.2; P=M; K=M

Previous crop: Corn

²No 2- or 3-year yields.

³See "Procedures" for a description of lodging scores.

Table 10. Yields of 66 wheat varieties at MAFES Delta Branch, Stoneville (Tunica silty clay soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight²	Date headed	Plant height	Lodging score³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
AGS2060	96.7	86.0	89.3	61	—	4/4	43	2
GA-981621-5E34	88.3	—	—	61	—	4/9	45	1
AGS 2020	88.3	85.1	—	60	—	4/2	41	1
GA-981622-5E35	88.0	—	—	61	—	4/3	45	1
Dixie X427	87.7	84.3	—	57	—	4/9	42	1
Dixie Bell DB2100	87.5	—	—	58	—	4/10	40	1
LA01140D-70	87.2	—	—	57	—	4/2	43	1
USG 3592	86.8	82.5	82.0	61	—	4/10	41	1
LA98214D-14-1-2-B	86.4	82.3	—	57	—	4/1	43	1
Terral TV8331	86.4	80.9	86.1	58	—	4/11	42	1
Terral TVX85771	86.4	—	—	58	—	4/2	45	1
Terral LA841	85.9	81.1	69.2	58	—	4/4	41	1
LA99005UC-31-3-C	85.7	78.3	—	57	—	3/31	40	1
USG 3555	85.6	—	—	59	—	4/8	37	1
VA01W-205	85.4	—	—	59	—	4/9	35	1
Terral TV8466	85.4	79.1	78.8	58	—	4/10	43	1
HBK 3128	85.2	—	—	59	—	4/12	40	1
AGS 2010	84.9	83.4	—	58	—	4/6	42	1
AgriPro Coker DO3*9804	84.6	—	—	58	—	4/9	40	1
Progeny 117	84.5	—	—	56	—	4/5	41	1
AgriPro Coker Panola	84.4	80.7	83.0	57	—	4/8	39	1
HBK 3266	84.2	80.3	83.0	59	—	4/8	41	1
Pioneer variety 26R15	84.1	82.5	84.1	58	—	4/11	38	1
AgriPro Coker 9700	83.8	80.8	—	58	—	3/31	40	1
Terral TVX81170	83.6	76.6	—	57	—	4/14	39	1
USG 3295	83.4	81.1	—	57	—	4/8	38	1
DK 9577	83.3	81.9	80.0	58	—	4/10	43	1
Pioneer variety 26R22	83.2	84.2	91.7	57	—	4/12	37	1
USG 3350	83.1	81.7	79.4	59	—	4/8	43	1
USG 3209	82.9	80.0	65.2	59	—	4/7	36	1
Terral TVX85089	82.9	—	—	58	—	4/10	43	1
DK 7710	82.9	79.3	84.1	58	—	4/11	45	1
Dixie X454	82.6	—	—	60	—	4/10	41	1
Dixie Bell DB7411	82.5	—	—	56	—	4/5	42	1
Dixie Bell DB2150	82.4	—	—	58	—	4/10	44	1
LA99042E-68-C	82.3	—	—	57	—	4/3	43	1
Dixie Bell DB7440	82.3	80.8	—	59	—	4/8	45	1
VA Jamestown	82.3	—	—	60	—	4/4	38	1
AgriPro Coker Beretta	82.2	77.0	80.6	57	—	4/10	43	1
Progeny 166	81.9	79.0	78.4	58	—	4/11	43	1
AgriPro Coker MAGNOLIA	81.7	80.0	86.0	58	—	4/6	42	1
Armor 5110	81.7	79.9	75.5	60	—	4/10	43	1
Dixie X950	80.7	—	—	58	—	4/9	40	1
AgriPro Coker 9553	80.5	83.7	83.0	60	—	4/3	41	1
LA01138D-21	80.5	—	—	57	—	4/5	44	1
USG 3725	80.3	81.2	—	56	—	4/12	40	1
GA-02603CT-7	80.0	—	—	57	—	4/1	38	1
Pioneer variety 26R87	79.8	78.5	—	60	—	4/5	38	1
DK 9108	79.6	79.0	80.6	58	—	4/2	43	1
Delta Grow 5200	79.2	76.9	72.3	59	—	4/10	44	1
Dixie Bell DB3440	79.1	75.2	69.5	57	—	4/11	43	1
Progeny 145	78.5	74.1	70.1	58	—	4/9	44	1
Progeny 185	78.1	78.3	79.5	57	—	4/9	40	1
AgriPro Coker X3443	78.0	—	—	57	—	4/4	40	1
Dixie Bell DB2125	77.6	78.9	78.4	58	—	4/10	40	1
Terral TV8558	77.4	78.3	78.1	57	—	4/9	40	1
Dixie 907	77.2	—	—	58	—	4/10	43	1
Terral LA482	76.4	77.8	—	57	—	4/2	41	1
Delta Grow 1600	75.7	71.6	75.0	58	—	4/11	42	1
USG 3665	75.5	—	—	58	—	4/11	37	1
Delta Grow 7400	75.4	—	—	60	—	4/14	45	1
VA03W-434	74.8	—	—	58	—	4/12	33	1

Continued.

Table 10 (continued). Yields of 66 wheat varieties at MAFES Delta Branch, Stoneville (Tunica silty clay soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight ²	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Dixie 989	74.1	73.6	78.0	58	—	4/10	40	1
Progeny 122	71.5	—	—	58	—	4/12	41	1
Progeny 127	70.9	—	—	58	—	4/13	39	1
USG 3342	67.6	—	—	59	—	4/9	37	1
Overall Mean	82.0	79.9	82.3					
LSD (.10)	6.6							
Error degrees of freedom	195							
CV (%)	6.9							
R ² (%)	69							

¹Planted , Nov. 5, 2007

Harvested June 3, 2008

Soil fertility: pH=6.7; P=M; K=M

Fertilizer added: Topdress – 46-0-0 @ 225 lb/A

Herbicide: 2,4-D @ 1.33 pt/A + NIS @ .25%

Previous crop: Soybeans

²Due to seed counter malfunction, 1000-kernel counts were inaccurate and not published.³See “Procedures” for a description of lodging scores.**Table 11. Yields of 66 wheat varieties at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam soil).¹**

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Pioneer variety 26R87	76.7	64.5	—	60	42	4/7	36	1
USG 3555	74.4	—	—	58	35	4/7	33	1
USG 3295	73.6	65.5	—	59	30	4/9	34	1
Progeny 185	70.2	66.7	79.0	57	27	4/9	37	1
AGS2060	69.9	65.1	77.9	60	35	4/5	43	1
HBK 3266	69.7	64.5	75.4	59	29	4/6	39	3
VA01W-205	67.8	—	—	58	24	4/10	34	1
AGS 2020	67.5	69.7	—	59	33	4/1	41	2
AgriPro Coker MAGNOLIA	67.1	66.7	79.0	59	38	4/7	39	1
Dixie X454	66.5	—	—	60	32	4/14	37	1
GA-981622-5E35	66.2	—	—	59	43	4/1	41	1
GA-981621-5E34	66.1	—	—	59	34	4/8	40	1
USG 3592	66.0	64.0	80.5	59	32	4/9	38	2
AgriPro Coker 9553	64.9	63.4	74.1	59	36	4/8	39	1
LA01138D-21	64.7	—	—	56	39	4/5	38	1
Pioneer variety 26R22	64.2	55.5	74.9	56	30	4/10	38	2
Terral LA841	64.2	58.0	66.9	57	29	4/5	41	2
VA03W-434	63.7	—	—	58	25	4/11	34	1
LA01140D-70	63.1	—	—	58	28	4/6	43	1
USG 3665	62.7	—	—	57	23	4/11	39	1
USG 3350	62.0	58.9	62.3	58	30	4/9	41	1
DK 9577	61.9	62.1	71.8	57	27	4/11	40	1
Terral LA482	61.6	60.6	—	57	34	3/28	40	1
Pioneer variety 26R15	61.4	55.4	68.3	57	30	4/10	37	2
Progeny 166	61.1	59.3	63.8	58	31	4/10	38	2
USG 3342	61.0	—	—	58	31	4/9	35	1
AgriPro Coker Beretta	60.8	59.5	64.4	56	27	4/9	38	1
Dixie X950	60.4	—	—	56	23	4/10	38	1
AgriPro Coker X3443	60.0	—	—	57	27	4/7	40	1
Terral TV8466	59.3	56.5	68.0	57	29	4/10	39	1
Dixie Bell DB2100	59.3	—	—	58	26	4/10	40	2
AgriPro Coker 9700	59.3	57.4	—	57	35	3/31	36	1
AGS 2010	59.1	49.4	—	59	32	4/7	38	1
Dixie 989	59.0	59.7	73.7	56	22	4/10	41	3
Terral TVX81170	58.7	59.3	—	56	28	4/14	38	2
Terral TVX85771	58.7	—	—	56	29	3/28	42	1
Progeny 117	58.5	—	—	58	33	4/5	39	1
Terral TV8331	58.3	56.0	68.4	55	31	4/10	38	2

Continued.

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Dixie 907	58.1	—	—	56	28	4/10	40	4
GA-02603CT-7	57.9	—	—	57	37	3/28	38	1
Delta Grow 7400	57.3	—	—	59	31	4/11	38	3
VA Jamestown	57.2	—	—	60	31	4/5	37	1
Dixie Bell DB2125	57.0	55.3	60.4	57	28	4/10	38	1
LA99005UC-31-3-C	56.9	59.4	—	57	35	3/28	34	1
Dixie X427	56.9	58.4	—	57	34	4/10	39	4
LA98214D-14-1-2-B	56.9	54.0	—	58	29	4/6	36	1
DK 9108	55.9	58.7	73.9	58	34	4/7	40	2
USG 3209	55.8	58.5	77.8	55	26	4/8	34	3
Dixie Bell DB7411	55.7	—	—	58	33	4/7	41	1
Terral TV8558	55.6	57.9	71.5	55	19	4/9	37	2
Delta Grow 1600	55.3	57.2	71.2	56	24	4/10	38	1
Armor 5110	54.3	55.5	57.5	57	29	4/11	39	2
AgriPro Coker DO3*9804	54.1	—	—	55	21	4/9	41	2
AgriPro Coker Panola	53.2	55.4	70.1	54	23	4/9	38	2
Dixie Bell DB3440	52.9	53.4	63.3	57	29	4/11	41	4
HBK 3128	52.7	—	—	58	29	4/14	37	4
Delta Grow 5200	52.4	53.6	60.2	57	23	4/10	40	2
Terral TVX85089	50.1	—	—	55	28	4/11	40	4
Progeny 145	49.8	53.0	55.9	58	30	4/9	43	1
Progeny 127	48.4	—	—	56	24	4/14	39	1
DK 7710	48.1	50.6	65.9	58	34	4/14	39	3
Dixie Bell DB7440	46.3	51.8	—	58	28	4/8	42	1
USG 3725	45.7	54.2	—	56	26	4/11	37	4
Dixie Bell DB2150	45.4	—	—	56	27	4/10	40	2
Progeny 122	42.5	—	—	54	24	4/14	38	2
LA99042E-68-C	41.0	—	—	58	41	4/6	39	1
Overall Mean	59.1	58.6	69.5					
LSD (.10)	6.4							
Error degrees of freedom	195							
CV (%)	9.3							
R ² (%)	71							
¹ Planted Nov. 8, 2007			Harvested June 5, 2008			Soil fertility: pH=6.2; P=H ; K=H+		
Fertilizer added: 34-0-0 @ 300 lb/A			Herbicide: None			Previous crop: Wheat		
² See "Procedures" for a description of lodging scores.								

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Terral TVX85089	75.8	—	—	57	30	—	41	1
Delta Grow 7400	74.9	—	—	60	35	—	44	2
USG 3592	73.5	74.9	77.6	59	38	—	41	1
Progeny 166	73.2	73.7	67.5	59	35	—	43	1
Dixie X427	72.5	73.2	—	57	34	—	40	3
Dixie X454	70.7	—	—	60	36	—	37	1
Dixie 907	70.2	—	—	58	34	—	43	1
DK 9577	70.0	68.2	69.4	56	27	—	42	2
Dixie Bell DB2100	69.9	—	—	57	32	—	38	1
USG 3350	69.9	72.4	66.5	58	35	—	44	1
USG 3295	69.4	77.9	—	58	36	—	36	1
USG 3665	69.4	—	—	54	23	—	39	1
Armor 5110	68.8	73.7	67.3	58	33	—	44	2
Dixie 989	68.7	68.3	70.1	55	27	—	41	1
DK 7710	68.6	69.6	71.1	58	32	—	45	3
Continued.								

Table 12 (continued). Yields of 66 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
VA01W-205	68.5	—	—	58	34	—	32	1
Terral TV8558	68.1	71.9	67.6	57	31	—	41	2
Delta Grow 1600	68.0	68.3	69.9	57	27	—	43	3
AgriPro Coker Beretta	67.3	69.8	68.6	58	32	—	42	3
Terral TVX81170	66.8	69.8	—	54	36	—	36	1
AgriPro Coker DO3*9804	66.5	—	—	58	32	—	42	3
Dixie X950	66.3	—	—	54	27	—	37	1
HBK 3128	66.2	—	—	57	36	—	40	1
Dixie Bell DB2125	65.4	64.4	56.8	58	32	—	48	2
Pioneer variety 26R15	65.3	63.5	75.5	57	37	—	35	1
Terral TV8466	65.2	65.8	67.5	56	36	—	44	4
Delta Grow 5200	64.6	68.8	64.5	60	31	—	44	2
Terral TV8331	64.1	71.0	76.5	57	41	—	40	2
VA03W-434	63.5	—	—	57	29	—	35	1
Progeny 185	63.1	69.4	71.6	54	31	—	39	1
Dixie Bell DB7440	61.8	65.4	—	58	37	—	38	1
Dixie Bell DB2150	61.7	—	—	57	30	—	47	2
USG 3725	60.7	50.3	—	54	28	—	39	1
LA98214D-14-1-2-B	60.2	68.3	—	54	31	—	43	2
Pioneer variety 26R22	60.1	73.3	90.9	57	35	—	36	3
USG 3555	60.1	—	—	56	35	—	34	1
AgriPro Coker Panola	59.9	73.5	69.3	59	31	—	40	4
Dixie Bell DB3440	57.9	54.3	60.1	58	34	—	40	3
HBK 3266	57.8	74.8	79.4	58	38	—	41	1
Progeny 145	57.6	61.7	57.7	58	36	—	42	1
Progeny 122	57.3	—	—	56	33	—	44	2
Progeny 117	56.0	—	—	56	34	—	38	1
Pioneer variety 26R87	55.6	72.2	—	60	45	—	36	1
DK 9108	55.2	61.3	66.2	54	32	—	46	1
Progeny 127	55.0	—	—	56	31	—	40	2
GA-981621-5E34	54.1	—	—	60	45	—	43	1
AgriPro Coker 9700	52.7	50.5	—	53	39	—	43	3
USG 3342	51.0	—	—	57	39	—	35	1
AgriPro Coker X3443	50.0	—	—	54	32	—	42	1
USG 3209	49.6	66.0	63.8	57	35	—	39	1
LA99005UC-31-3-C	49.2	69.8	—	54	34	—	37	1
AgriPro Coker 9553	48.8	69.4	83.5	60	37	—	43	1
Dixie Bell DB7411	47.3	—	—	52	29	—	45	3
VA Jamestown	46.4	—	—	56	27	—	38	1
AgriPro Coker MAGNOLIA	45.4	68.7	74.9	49	29	—	41	1
LA01140D-70	44.7	—	—	54	38	—	45	2
Terral LA482	44.1	55.2	—	54	29	—	43	1
AGS2060	44.0	70.3	74.9	54	37	—	40	1
Terral TVX85771	43.2	—	—	52	29	—	45	1
GA-02603CT-7	42.8	—	—	53	35	—	43	1
Terral LA841	42.4	62.5	70.3	50	31	—	40	1
GA-981622-5E35	40.8	—	—	56	41	—	42	1
AGS 2010	40.7	51.3	—	57	37	—	42	1
LA99042E-68-C	38.0	—	—	52	36	—	46	1
AGS 2020	35.8	60.6	—	57	39	—	39	1
LA01138D-21	32.7	—	—	52	28	—	44	1
Overall Mean	58.7	67.0	70.3					
LSD (.10)	10.6							
Error degrees of freedom	195							
CV (%)	15.4							
R ² (%)	68							

¹Planted Nov. 8, 2007

Harvested June 2, 2008

Soil fertility: pH=6.0; P=H; K=H

Fertilizer added: N – 46-0-0 @ 200 lb/A

Herbicide: Salvo @ 1 pt/A

Previous crop: Corn

²See "Procedures" for a description of lodging scores.

Table 13. Wheat varietal reactions to disease in Mississippi.¹

Brand/Variety	Leaf rust ² 2008	Leaf rust ² 2007	Brand/Variety	Leaf rust ² 2008	Leaf rust ² 2007
AgriPro Coker Beretta	MS	R	LA01138D-21 (Exp.)	MR	—
AgriPro Coker MAGNOLIA	VS	R	LA01140D-70 (Exp.)	S	—
AgriPro Coker Panola	VS	R	LA98214D-14-1-2-B (Exp.)	R	R
AgriPro Coker 9553	VS	R	LA99042E-68-C (Exp.)	VS	—
AgriPro Coker 9700	VS	—	LA99005UC-31-3-C (Exp.)	S	R
AgriPro Coker D03*9804 (Exp.)	VS	—	Pioneer variety 26R15	MR	R
AgriPro Coker X3443 (Exp.)	VS	—	Pioneer variety 26R22	VS	MR
AGS 2010	MR	R	Pioneer variety 26R87	—	R
AGS 2020	MR	—	Progeny 145	MS	MR
AGS 2060	R	R	Progeny 166	MS	MS
Armor 5110	MS	MS	Progeny 185	S	MS
Delta Grow 1600	S	R	Progeny 117 (Exp.)	VS	—
Delta Grow 5200	S	MS	Progeny 122 (Exp.)	S	—
Delta Grow 7400	MR	—	Progeny 127 (Exp.)	S	—
Dixie 989	S	R	Terral LA482	VS	MR
Dixie 907	MS	—	Terral LA841	R	R
Dixie X427 (Exp.)	S	R	Terral TV8331	VS	MR
Dixie X454 (Exp.)	R	—	Terral TV8466	VS	MR
Dixie X950 (Exp.)	VS	—	Terral TV8558	VS	MR
Dixie Bell DB2100	R	—	Terral TVX81170 (Exp.)	VS	MR
Dixie Bell DB2125	S	MR	Terral TVX85089 (Exp.)	S	—
Dixie Bell DB2150	MR	—	Terral TVX85771 (Exp.)	VS	—
Dixie Bell DB3440	MS	MR	USG 3209	VS	R
Dixie Bell DB7411	VS	—	USG 3295	R	R
Dixie Bell DB7440	MS	MS	USG 3342	MS	—
DK 7710	VS	R	USG 3350	MS	MR
DK 9108	S	R	USG 3555	S	—
DK 9577	VS	MR	USG 3592	R	R
GA-02603CT-7 (Exp.)	VS	—	USG 3665	VS	—
GA-981621-5E34 (Exp.)	R	—	USG 3725	S	—
GA-981622-5E35 (Exp.)	MR	—	VA Jamestown	VS	—
HBK 3128	MS	—	VA01W-205 (Exp.)	R	—
HBK 3266	R	R	VA03W-434 (Exp.)	VS	—

¹Prepared by Dr. David Ingram, associate extension/research plant pathologist, Central Mississippi Research and Extension Center, Raymond, Mississippi.

²Values were subjected to analysis of variance and were compared to a set of arbitrary values for R=resistant (<1%); MR=moderately resistant (1-5%); MS=moderately susceptible (5-10%); S=susceptible (10-25%); VS=very susceptible (>25%); and — = variety not tested. Values reflect varietal disease reaction only and are not intended to be used as the sole criterion for determination of economic losses.

³The method used to determine the wheat disease reaction is a visual estimate of the amount of leaf area affected by leaf rust pustules using an approved standardized scale (A Manual of Assessment Keys for Plant Diseases, Clive James, Canada Department of Agriculture, Publication No. 1458). The varietal reactions listed in the table are based on an arbitrary scale of the amount of leaf area affected by rust pustules. In 2006 and 2007, leaf rust severity was generally low and ranged from 0-15%. In 2008, leaf rust was much more severe than in the past 2 years, ranging from 0-50%. This makes the varietal reactions for 2008 fall into the more susceptible categories using our arbitrary numerical rating. This does not necessarily mean that the genetic resistance in those varieties that went from a resistant reaction to a susceptible reaction is breaking down. It is more of a function of leaf rust pressure from year to year. The disease reactions of several varieties did not change from 2007 to 2008, possibly indicating that those varieties can better withstand a heavy leaf rust year. The disease data were collected only at the Raymond location and may not be representative of the same variety's disease reaction in other areas of the state.

Table 14. Average number of wheat seeds per pound.

Brand/Variety	2007-08 average	2-year average	Brand/Variety	2007-08 average	2-year average
	<i>seeds/lb</i>	<i>seeds/lb</i>		<i>seeds/lb</i>	<i>seeds/lb</i>
AgriPro Coker Beretta	11,636	13,055	LA01138D-21 (Exp.)	11,141	—
AgriPro Coker MAGNOLIA	10,474	11,305	LA01140D-70 (Exp.)	10,612	—
AgriPro Coker Panola	13,138	13,129	LA98214D-14-1-2-B (Exp.)	11,704	—
AgriPro Coker 9553	10,944	11,274	LA99042E-68-C (Exp.)	9,066	—
AgriPro Coker 9700	9,947	11,023	LA99005UC-31-3-C (Exp.)	10,834	11,440
AgriPro Coker D03*9804 (Exp.)	15,247	—	Pioneer variety 26R15	12,136	12,061
AgriPro Coker X3443 (Exp.)	13,856	—	Pioneer variety 26R22	10,984	11,046
AGS 2010	11,664	11,595	Pioneer variety 26R87	8,862	9,378
AGS 2020	12,003	10,797	Progeny 145	11,539	12,883
AGS 2060	11,622	12,592	Progeny 166	14,390	13,491
Armor 5110	10,604	12,297	Progeny 185	12,646	12,480
Delta Grow 1600	14,635	15,751	Progeny 117 (Exp.)	13,831	—
Delta Grow 5200	13,599	14,257	Progeny 122 (Exp.)	12,516	—
Delta Grow 7400	13,512	—	Progeny 127 (Exp.)	16,144	—
Dixie 989	15,364	14,776	Terral LA482	11,239	12,927
Dixie 907	13,016	—	Terral LA841	11,552	12,498
Dixie X427 (Exp.)	12,970	13,955	Terral TV8331	9,449	9,949
Dixie X454 (Exp.)	12,089	—	Terral TV8466	11,181	12,457
Dixie X950 (Exp.)	14,156	—	Terral TV8558	14,171	16,019
Dixie Bell DB2100	14,666	—	Terral TVX81170 (Exp.)	11,071	12,263
Dixie Bell DB2125	15,202	13,729	Terral TVX85089 (Exp.)	12,513	—
Dixie Bell DB2150	13,743	—	Terral TVX85771 (Exp.)	10,159	—
Dixie Bell DB3440	12,852	12,067	USG 3209	9,716	10,717
Dixie Bell DB7411	13,925	—	USG 3295	11,364	11,315
Dixie Bell DB7440	13,955	13,173	USG 3342	12,352	—
DK 7710	14,527	14,789	USG 3350	12,857	13,165
DK 9108	10,537	11,608	USG 3555	11,201	—
DK 9577	12,367	13,278	USG 3592	11,740	11,741
GA-02603CT-7 (Exp.)	9,257	—	USG 3665	13,429	—
GA-981621-5E34 (Exp.)	10,366	—	USG 3725	14,426	14,278
GA-981622-5E35 (Exp.)	8,942	—	VA Jamestown	13,391	—
HBK 3128	12,815	—	VA01W-205 (Exp.)	13,695	—
HBK 3266	11,992	12,965	VA03W-434 (Exp.)	17,734	—

Table 15. Average number of oat seeds per pound.

Brand/Variety	2007-08 average	2-year average	Brand/Variety	2007-08 average	2-year average
	<i>seeds/lb</i>	<i>seeds/lb</i>		<i>seeds/lb</i>	<i>seeds/lb</i>
FL 99212-D6	13,696	—	LA99017-275-C-B-S1 (Exp.)	13,120	—
LA99016	12,465	14,178	LA99017-275-C-B-S2 (Exp.)	14,137	—
LA02030-106-S1-B-S1 (Exp.)	12,277	—	Horizon 201	13,018	—
LA02030SBSBSB-S1 (Exp.)	11,520	—	Horizon 270	13,604	—
LA02048SBSBSB-S1 (Exp.)	13,905	—	Horizon LA 976	14,142	—
LA99011-45-B-S-B-S2 (Exp.)	12,892	—	Terral Trophy	12,688	12,821

Table 16. 2008 yield summary of oat variety trials in Mississippi.

Brand/Variety	Brooksville	Newton	Raymond	Stoneville	Overall avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
FL 99212-D6	122.5	50.3	92.4	125.5	97.7
LA99016	85.5	32.5	55.1	116.9	72.5
LA02030-106-S1-B-S1 (Exp.)	102.0	56.6	56.7	120.5	84.0
LA02030SBSBSB-S1 (Exp.)	73.0	26.2	49.9	114.5	65.9
LA02048SBSBSB-S1 (Exp.)	92.2	20.9	60.9	101.2	68.8
LA99011-45-B-S-B-S2 (Exp.)	69.6	31.6	64.3	93.5	64.8
LA99017-275-C-B-S1 (Exp.)	76.8	34.9	52.3	118.3	70.6
LA99017-275-C-B-S2 (Exp.)	80.2	20.7	67.9	113.7	70.6
Horizon 201	103.9	46.7	58.4	133.7	85.7
Horizon 270	105.0	55.0	81.1	115.9	89.3
Horizon LA 976	89.6	21.2	65.5	102.4	69.7
Terral Trophy	101.9	36.3	66.4	122.7	81.8
Overall Mean	91.9	36.1	64.2	114.9	76.8
LSD (.10)	10.3	15.6	20.4	10.7	
Error degrees of freedom	33	33	33	33	
CV (%)	9.4	36.1	26.5	7.8	
R ² (%)	82	63	63	72	

Table 17. Two-year yield summary of oat variety trials in Mississippi.

Brand/Variety	Brooksville	Newton	Raymond	Stoneville	Overall avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
Horizon 270	91.2	53.2	100.4	103.3	87.0
LA99016	72.3	40.1	71.0	99.4	70.7
Terral Trophy	94.6	47.8	85.9	105.3	77.1
Overall Mean	86.0	47.0	85.8	102.7	78.3

Table 18. Three-year yield summary of oat variety trials in Mississippi.

Brand/Variety	Brooksville	Newton	Stoneville	Overall avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
Horizon 270	89.2	74.4	72.0	78.5
Terral Trophy	82.5	66.3	104.1	84.3
Overall Mean	85.6	70.4	88.1	81.4

Table 19. Yields of 12 oat varieties at MAFES Black Belt Branch, Brooksville (Brooksville silt clay soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>		<i>in</i>	
FL99212-D6	122.5	—	—	36	4/15	44	2
Horizon 270	105.0	91.2	89.2	36	4/11	41	2
Horizon 201	103.9	—	—	35	4/14	44	2
LA02030-106-S1-B-S1	102.0	—	—	33	4/10	42	1
Terral Trophy	101.9	94.6	82.5	37	4/13	46	3
LA02048SBSBSB-S1	92.2	—	—	36	4/15	48	1
Horizon LA976	89.6	—	—	37	4/12	44	3
LA99016	85.5	72.3	—	36	4/5	46	1
LA99017-275-C-B-S2	80.2	—	—	33	4/20	51	1
LA99017-275-C-B-S1	76.8	—	—	34	4/12	51	1
LA02030SBSBSB-S1	73.0	—	—	33	4/7	41	2
LA99011-45-B-S-B-S2	69.6	—	—	35	4/13	39	2
Overall mean	91.9	86.0	85.6				
LSD (.10)	10.3						
Error degrees of freedom	33						
CV (%)	9.4						
R ² (%)	82						
¹ Planted Nov. 9, 2007		Harvested June 9, 2008		Soil fertility: pH=6.6; P=H; K=H			
Fertilizer added: Topdress – N @ 60 lb/A		Previous crop: Soybeans					
² See "Procedures" for a description of lodging scores.							

Table 20. Yields of 12 oat varieties at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>		<i>in</i>	
LA02030-106-S1-B-S1	56.6	—	—	32	4/8	44	1
Horizon 270	55.0	53.2	74.4	33	4/8	43	2
FL99212-D6	50.3	—	—	35	4/11	49	2
Horizon 201	46.7	—	—	33	4/10	52	2
Terral Trophy	36.3	47.8	66.3	36	4/10	48	2
LA99017-275-C-B-S1	34.9	—	—	32	4/10	49	1
LA99016	32.5	40.1	—	33	4/11	48	1
LA99011-45-B-S-B-S2	31.6	—	—	33	4/14	40	4
LA02030SBSBSB-S1	26.2	—	—	31	4/2	41	1
Horizon LA976	21.2	—	—	35	4/10	49	4
LA02048SBSBSB-S1	20.9	—	—	35	4/11	47	2
LA99017-275-C-B-S2	20.7	—	—	30	4/10	48	1
Overall mean	36.1	47.0	70.4				
LSD (.10)	15.6						
Error degrees of freedom	33						
CV (%)	36.1						
R ² (%)	63						
¹ Planted Nov. 7, 2007		Harvested June 5, 2008		Soil fertility: pH=6.2; P=H; K=H+			
Fertilizer added: 34-0-0 @ 235 lb/A		Previous crop: Wheat					
² See "Procedures" for a description of lodging scores.							

Table 21. Yields of 12 oat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield ²	3-year avg. yield ²	Test weight	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>		<i>in</i>	
FL99212-D6	92.4	—	—	33	—	1	49
Horizon 270	81.1	100.4	—	35	—	1	42
LA99017-275-C-B-S2	67.9	—	—	34	—	1	61
Terral Trophy	66.4	85.9	—	36	—	1	51
Horizon LA976	65.5	—	—	34	—	1	50
LA99011-45-B-S-B-S2	64.3	—	—	36	—	2	49
LA02048SBSBSB-S1	60.9	—	—	33	—	1	53
Horizon 201	58.4	—	—	33	—	1	56
LA02030-106-S1-B-S1	56.7	—	—	31	—	1	47
LA99016	55.1	71.0	—	34	—	1	51
LA99017-275-C-B-S1	52.3	—	—	35	—	1	62
LA02030SBSBSB-S1	49.9	—	—	32	—	1	46
Overall mean	64.2	85.8	—				
LSD (.10)	20.4						
Error degrees of freedom	33						
CV (%)	26.5						
R ² (%)	63						
¹ Planted Nov. 8, 2007		Harvested June 2, 2008		Soil fertility: pH=6.0; P=H; K=H			
Fertilizer added: N – 46-0-0 @ 200 lb/A		Herbicide: Salvo @ 1 pt/A		Previous crop: Corn			
² No 3-year yields.							
³ See “Procedures” for a description of lodging scores.							

Table 22. Yields of 12 oat varieties at MAFES Delta Branch, Stoneville (Tunica silty clay soil).¹

Brand/Variety	2007-08 yield	2-year avg. yield	3-year avg. yield	Test weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>		<i>in</i>	
Horizon 201	133.7	—	—	35	4/11	50	1
FL99212-D6	125.5	—	—	36	4/11	43	1
Terral Trophy	122.7	105.3	104.4	38	4/10	45	1
LA02030-106-S1-B-S1	120.5	—	—	33	4/10	45	1
LA99017-275-C-B-S1	118.3	—	—	34	4/12	53	1
LA99016	116.9	99.4	—	36	4/11	47	2
Horizon 270	115.9	103.3	72.0	35	4/8	41	1
LA02030SBSBSB-S1	114.5	—	—	33	4/6	44	2
LA99017-275-C-B-S2	113.7	—	—	36	4/12	54	1
Horizon LA976	102.4	—	—	37	4/10	44	3
LA02048SBSBSB-S1	101.2	—	—	33	4/13	50	2
LA99011-45-B-S-B-S2	93.5	—	—	37	4/12	41	4
Overall mean	114.9	102.7	88.1				
LSD (.10)	10.7						
Error degrees of freedom	33						
CV (%)	7.8						
R ² (%)	72						
¹ Planted Nov. 5, 2007		Harvested June 3, 2008		Soil fertility: pH=6.6; P=H; K=H			
Fertilizer added: 46-0-0 @ 100 lb/A		Previous crop: Soybeans					
² See “Procedures” for a description of lodging scores.							

TECHNICAL ADVISORY COMMITTEE

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Syngenta

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