Information Bulletin 469 July 2012

Mississippi WHEAT & OAT

VARIETY TRIALS, 2012

MAFES

Mississippi Agricultural & Forestry Experiment Station • George M. Hopper, Director

Mississippi State University • Mark E. Keenum, President • Gregory A. Bohach, Vice President

NOTICE TO USER

This Mississippi Agricultural and Forestry Experiment Station Information Bulletin is a summary of research conducted at locations shown on the map on the third page. It is intended for the use of colleagues, cooperators, and sponsors. The interpretation of data presented herein may change after additional experimentation. Information included herein is not to be construed either as a recommendation for use or as an endorsement of a specific variety or product by Mississippi State University or the Mississippi Agricultural and Forestry Experiment Station.

This report contains data generated as part of the Mississippi Agricultural and Forestry Experiment Station research program. Joint sponsorship by the organizations listed on pages 5-6 is gratefully acknowledged.

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 5-6.

Mississippi Wheat and Oat Variety Trials, 2012

Brad Burgess
Manager of Operations, Variety Evaluations
Mississippi State University

Tom Allen
Assistant Extension Professor
Delta Research and Extension Center

Beau Varner
Assistant Farm Supervisor
Black Belt Branch Experiment Station

David Ingram
Extension/Research Professor
Central 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 Extension Service

Dennis Rowe
Statistician
Research Support Units

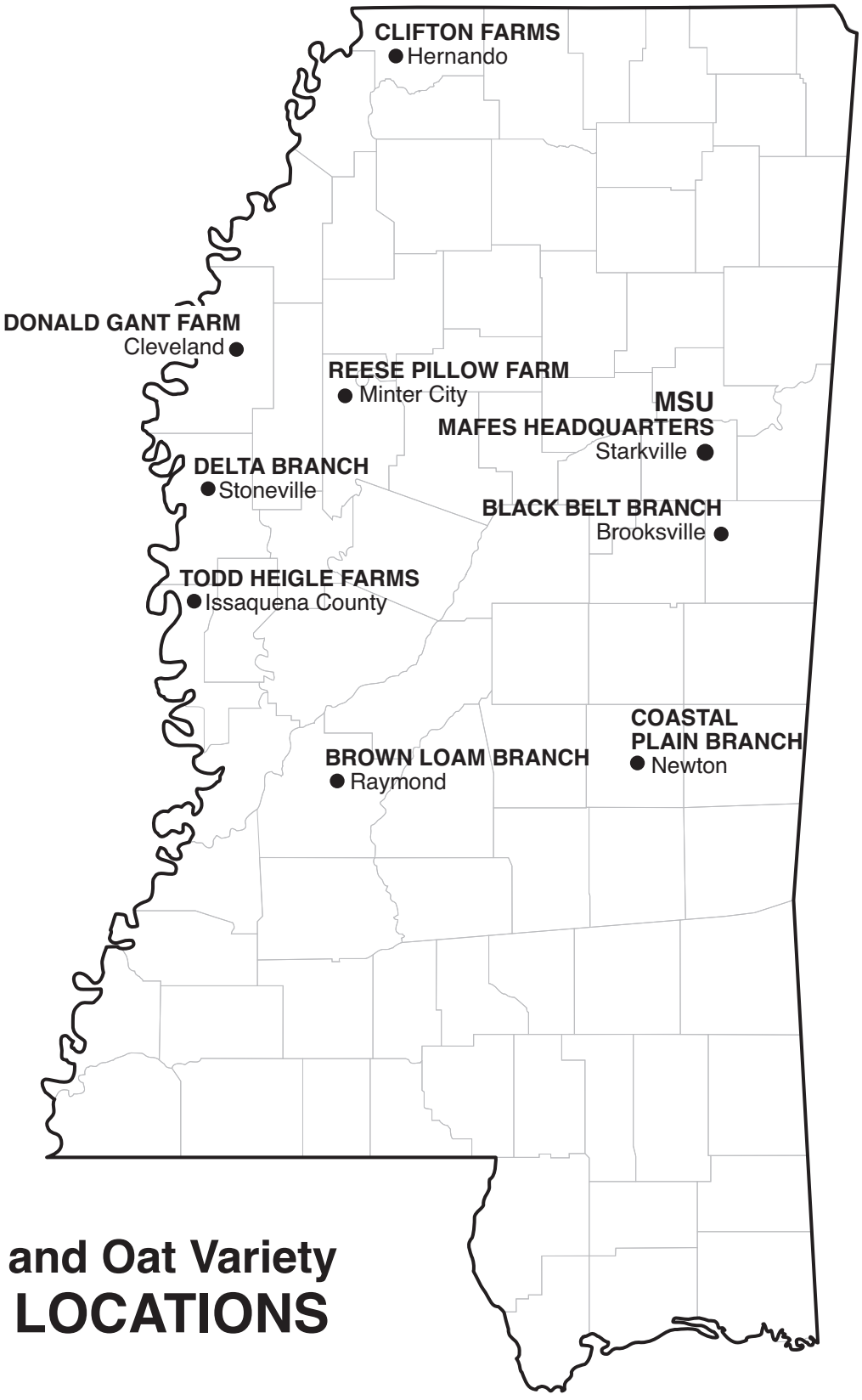
Jerry Singleton
Area Extension Agent III
Leflore County Extension Service

Megan Starkey
Research Associate
Brown Loam Branch Experiment Station

Dennis Reginelli
Area Extension Agent IV
Noxubee County Extension Service

Don Respess
County Extension Director III
Coahoma County Extension Service

Recognition is given to Jacob H. Bullard, Jason B. Hillhouse, and Jerry W. Nail, research technicians for the Variety Testing Program, for their assistance in packaging, planting, harvesting, and recording plot data; and to Dr. Dennis Rowe, Experimental Statistics, for statistical analyses and computing assistance. This document was prepared by office associate Dixie Albright for MAFES Research Support Units. It was published by the Office of Agricultural Communications, a unit of the Division of Agriculture, Forestry, and Veterinary Medicine at Mississippi State University. **You can visit our website at http://msucares.com/crops/variety/index.html.**



Wheat and Oat Variety
TEST LOCATIONS

Mississippi Wheat and Oat Variety Trials, 2012

Introduction

Small grains are grown throughout Mississippi. Wheat is the primary crop, followed by oats. Wheat variety trials were conducted at eight locations, while oat trials were conducted at four locations in Mississippi in 2011–2012. Wheat yields typically range from 40–60 bushels per acre and often produce 60–80 bushels per acre under good management and favorable weather conditions. Oat yields from 50–80 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 7.5 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. Seeds of all private entries were supplied by participating companies. Seeds 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 1–5 scale: 1 = almost all plants erect; 2 = all plants leaning slightly or only a few plants down; 3 = all plants leaning moderately or 25–50% of plants down; 4 = all plants leaning considerably or 50–80% 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 1–1.5 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 over-seeding 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 80–100 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 when planting late or when planting conditions are poor. If seed is broadcast and covered with a disk or field cultivator, 100–120 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 rate 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 varieties 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.

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 90–160 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 Extension 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 permission 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 these websites:

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, etc. In general, the higher the CV is, the lower the precision in a given trial.

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 is, 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

Brooksville — Wheat and oat plots were planted in early November into a freshly prepared seedbed. All plots emerged to a good stand. Growing conditions throughout the winter and spring were very mild. The crop appeared to mature a couple weeks early as a result of these conditions. Harvest was made in a timely manner, and good yields were observed.

Cleveland — Wheat was planted in a timely manner, and all plots emerged to a good stand. Moderately wet conditions early during the growing season held growth back slightly. However, weather conditions were ideal throughout the late winter and spring. The wheat crop began heading during the first week of April and finished out the season with very little disease or insect pressure. Plots were harvested on time and without any difficulties.

Issaquena County — Wheat was planted in a well-prepared seedbed with excellent moisture. It was a very wet growing season, but the soil was well drained. Winter was mild with no hard freezes. Warm spring temperatures allowed for the crop to mature rapidly, and harvest was completed two weeks earlier than normal. Excellent yields were observed.

Stoneville — Wheat and oat plots were planted into a freshly prepared seedbed. All plots quickly emerged to a good stand. The winter was unusually mild, and spring allowed for ideal growing conditions. The plots appeared to mature earlier than normal due to the warm spring temperatures. Harvest was made in a timely manner.

Newton — The 2011–12 crop was planted into ideal conditions and quickly germinated, emerging to a good stand. The entire growing season was mild, bringing up concerns of whether temperatures ever got cold enough for the crop to mature normally. The crop received adequate moisture and matured somewhat earlier than normal with no apparent side effects from the mild winter. A few plots received slight damage from deer feeding on the heads late in the growing season. Harvest was made in a timely manner.

Raymond — Wheat and oat plots were planted into a well-prepared seedbed with excellent soil moisture. Plots emerged to an excellent stand but experienced a good bit of lodging before harvest. This lodging affected our ability to harvest the plots efficiently and resulted in reduced yields at this location.

Minter City — Wheat was planted on a timely basis with adequate soil moisture, and all plots emerged to a good stand. Surface drainage was good, but internal drainage appeared to be poor due to uneven growth of some plants and within the same plots. Growth was also affected by glyphosate drift in late March or early April, but eventually all plots headed out. No significant insect pressure was found in the plot. Some individual plots developed signs of stripe rust and leaf rust by the end of the heading period.

Hernando — Wheat plots were planted no-till following the previous soybean crop. All plots emerged to a suitable stand. Winter weather conditions were mild, and spring came unusually early in 2012. The wheat crop never seemed to tiller as usual and began heading about 3 weeks before normal. Heavy deer feeding was observed on some plots. These plots suffered a great reduction in yield due to the deer biting the heads off the plants. This feeding seemed to occur predominately in awnless varieties.

Table 1. Companies supplying wheat brands/varieties entered.

Company	Variety		Seed Treatment
AgriMAXX Wheat Company 7167 Highbanks Road Mascoutah, IL 62258	AgriMAXX AgriMAXX AgriMAXX	413 415 424	Dividend Extreme
AgSouth Genetics P.O. Box 72246 Albany, GA 31708	AGS AGS AGS	2035 2060 2026	
Armor Seed P.O. Box 178 Hwy. 49 Fisher, AR 72429	Armor Armor Armor Armor Armor	ARX 1133 Ricochet ARX 1175 ARX 1107 ARX 1109	Dividend Extreme
B&S Seed Co., Inc. 1283 Hwy. 444 Duncan, MS 38740	Dixie Bell Dixie Bell Dixie Bell Dixie Bell	DB 620 DB 999 DB 412 DB 7440	Dividend Extreme
Bayer CropScience/HBK Seed 210 Drier Road Dewitt, AR 72042	HBK 3266	HBK 3266	Proceed
Cache River Valley Seed P.O. Box 10 Cash, AR 72421	Dixie Dixie Dixie	EXP 1112 McAlister Kelsey	
Delta Grow Seed P.O. Box 219 England, AR 72406	Delta Grow Delta Grow Delta Grow Delta Grow Delta Grow	DG 7300 DG 7500 DG 7900 DG 8300 DG 8600	Dividend Extreme
University of Georgia UGA-CAES-Griffin Campus 1109 Experiment St. Griffin, GA 30223	UGA UGA	GA 021245-9E16 GA 001138-8E36	
Dyna-Gro Seed 6221 Riverside Drive, Suite One Dublin, OH 43017	Dyna-Gro Dyna-Gro Dyna-Gro	Baldwin 9053 9171	Awaken ST
JGL, Inc. 3540 S. U.S. 231 Greencastle, IN 46135	JGL JGL JGL JGL	EXP 32113 EXP 32110 EXP 32111 EXP 32112	Dividend Extreme
Louisiana State University SPESS 221 M.B. Sturgis Hall Baton Rouge, LA 70803	LSU LSU LSU LSU LSU LSU	LA02015E201 LA01110D-150 LA02015E58 LA02024E12 LA04026D-7 LA04110D-7	
Pioneer Hi-Bred Intl. 700 Blvd. South SW, Suite 302 Huntsville, AL 35802	Pioneer Pioneer Pioneer Pioneer Pioneer Pioneer Pioneer	26R10 26R15 26R20 XW10V 26R22 26R87 XW10T	Dividend Extreme
Progeny Ag Products 1529 Hwy. 193 Wynne, AR 72396	Progeny Progeny Progeny Progeny Progeny Progeny Progeny	Progeny 117 Progeny 185 Progeny 125 Progeny 870 Progeny 357 Progeny 308 Progeny PGX11-14	Raxil MD

Continued.

Table 1 (continued). Companies supplying wheat brands/varieties entered.

Company	Variety		Seed Treatment
Syngenta Seeds 778 CR 680 Bay, AR 72396	Syngenta Syngenta Syngenta Syngenta Syngenta	ARCADIA (D0S*6441) B050154 CK 9553 MAGNOLIA OAKES (B030543)	
Terral Seed Inc. P.O. Box 826 Lake Providence, LA 71254	Terral Terral Terral Terral Terral Terral Terral	LA841 TV8535 TV8626 TV8848 LA821 TV8861 TV8525	Dividend Extreme
UniSouth Genetics, Inc. 3205-C Hwy. 46 S Dickson, TN 37055	USG USG USG USG USG USG	USG 3555 USG 3562 USG 3201 USG 3172 USG 3251 USG 3438	Dividend Extreme
E. Virginia Ag. Res. & Ext. Center 2229 Menokin Road Warsaw, VA 22572	VA VA	Jamestown 05W-151	Raxil MD

Table 2. Companies supplying oat brands/varieties entered.

Company	Variety		Seed Treatment
Louisiana State University SPESS 221 M.B. Sturgis Hall Baton Rouge, LA 70803	LSU LSU LSU	LA05006GSBS-65-S1 LA04004SBSB-7-B-S1 LA02065SBSBSBSB-88	
Plantation Seed P.O. Box 398 Newton, GA 39870	Horizon	201 270	Raxil/Thiram

Table 3. 2012 yield summary of wheat variety trials in Mississippi.

Brand	Variety	Brooks-ville	Hern-ando	Newton	Ray-mond	South avg.	Cleve-land	Issaquena County	Minter City	Stone-ville	Delta avg.	State avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriMaxx	AgriMAXX 413	68.7	33.0	47.5	54.0	50.8	57.3	90.3	54.2	62.9	66.2	62.1
AgriMaxx	AgriMAXX 415	65.6	34.9	51.9	49.3	50.6	55.8	89.7	61.3	56.9	65.9	61.5
AgriMaxx	AgriMAXX 424	63.7	34.1	42.5	37.0	39.8	45.2	76.4	47.9	50.3	55.0	51.9
AGS	AGS 2026	52.2	*	35.2	44.2	39.7	43.0	64.8	41.5	44.2	48.4	46.4
AGS	AGS 2035	74.1	44.9	51.9	49.1	50.5	50.5	80.8	49.9	61.5	60.7	59.7
AGS	AGS 2060	62.9	41.8	46.8	56.7	51.7	52.1	77.8	52.1	64.3	61.6	58.9
Armor	ARX 1107	62.3	28.6	47.5	43.5	45.5	51.6	79.6	50.9	64.3	61.6	57.1
Armor	ARX 1109	70.0	32.6	54.0	40.4	47.2	41.0	74.2	44.9	53.3	53.3	54.0
Armor	ARX 1133	76.5	32.4	43.7	44.7	44.2	61.8	86.5	54.7	56.3	64.8	60.6
Armor	ARX 1175	71.0	29.9	53.8	43.4	48.6	41.9	74.0	38.6	52.2	51.7	53.6
Armor	Ricochet	61.5	36.2	41.0	47.5	44.3	56.7	84.2	51.6	49.0	60.4	55.9
Delta Grow	DG 7300	67.7	29.6	53.9	23.7	38.8	35.0	72.0	41.1	45.1	48.3	48.4
Delta Grow	DG 7500	57.4	35.9	34.3	56.2	45.2	59.2	83.6	51.5	45.0	59.8	55.3
Delta Grow	DG7900	59.6	*	40.2	35.0	37.6	39.4	79.3	47.5	34.6	50.2	48.0
Delta Grow	DG 8300	63.1	40.6	40.8	53.6	47.2	57.9	64.4	44.5	36.0	50.7	51.5
Delta Grow	DG 8600	60.8	31.5	49.8	49.3	49.5	48.2	79.9	55.4	59.9	60.8	57.6
Dixie	Exp 1112	70.4	28.0	44.7	30.0	37.3	47.2	89.5	41.3	47.4	56.4	52.9
Dixie	Kelsey	65.6	34.5	50.3	40.5	45.4	60.7	88.6	65.9	59.5	68.7	61.6

Continued.

Table 3 (continued). 2012 yield summary of wheat variety trials in Mississippi.

Brand	Variety	Brooks-ville	Hern-ando	Newton	Ray-mond	South avg.	Cleve-land	Issaquena County	Minter City	Stone-ville	Delta avg.	State avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Dixie	McAlister	61.2	29.8	42.2	59.5	50.8	49.6	87.2	50.9	60.0	61.9	58.6
Dixie Bell	DB7440	61.5	*	43.6	41.1	42.3	45.3	58.5	27.8	50.4	45.5	46.9
Dixie Bell	DB 620	69.7	38.9	55.5	56.1	55.8	52.3	89.5	37.6	56.1	58.9	59.5
Dixie Bell	DB 412	71.9	34.1	45.1	42.3	43.7	50.5	82.2	47.4	48.8	57.2	55.5
Dixie Bell	DB 999	68.4	32.2	48.0	30.1	39.0	49.8	80.2	38.1	55.0	55.8	52.8
Dyna-Gro	Baldwin	72.9	47.1	59.7	68.5	64.1	47.9	80.3	52.3	62.5	60.8	63.5
Dyna-Gro	9053	59.7	26.7	52.6	31.2	41.9	30.9	72.4	36.1	46.6	46.5	47.1
Dyna-Gro	9171	65.9	32.5	46.8	66.0	56.4	61.6	90.6	56.1	54.5	65.7	63.1
HBK	HBK 3266	78.7	48.9	57.3	53.7	55.5	45.2	63.2	48.6	44.8	50.5	55.9
JGL	Exp 32110	70.9	42.0	54.6	47.7	51.2	67.4	97.5	65.2	55.0	71.3	65.5
JGL	Exp 32111	70.0	27.9	53.5	33.6	43.5	41.7	76.7	28.7	57.6	51.2	51.7
JGL	Exp 32112	66.9	42.7	40.7	46.8	43.8	60.3	87.5	67.3	58.9	68.5	61.2
JGL	Exp 32113	68.7	23.7	36.7	37.8	37.3	50.5	91.4	44.2	55.5	60.4	55.0
Pioneer	26R87	74.2	43.8	46.2	56.2	51.2	70.4	86.3	49.5	65.6	67.9	64.0
Pioneer	XW10T	60.4	41.6	62.9	43.4	53.1	67.6	91.7	52.4	56.8	67.1	62.2
Pioneer	26R10	66.4	35.1	49.6	37.6	43.6	49.9	83.1	48.7	60.2	60.5	56.5
Pioneer	26R15	65.5	42.4	44.9	41.8	43.3	48.9	82.0	45.5	53.5	57.5	54.6
Pioneer	26R20	67.6	42.6	52.0	39.4	45.7	48.3	84.7	61.7	44.8	59.9	56.9
Pioneer	26R22	67.5	31.1	53.4	45.2	49.3	56.9	79.3	56.0	55.6	62.0	59.2
Pioneer	XW10V	58.0	36.8	58.1	50.7	54.4	65.0	88.7	58.7	55.3	66.9	62.1
Progeny	Progeny 117	64.8	27.6	38.1	34.9	36.5	47.5	65.4	29.9	56.5	49.8	48.2
Progeny	Progeny 125	70.4	*	42.6	52.3	47.5	44.1	64.2	35.5	54.1	49.5	51.9
Progeny	Progeny 185	57.8	*	35.2	45.7	40.5	50.2	70.4	36.6	50.9	52.0	49.6
Progeny	Progeny 357	65.0	28.0	50.7	31.4	41.1	29.2	75.9	34.8	42.3	45.6	47.1
Progeny	Progeny 870	66.7	36.6	43.2	61.9	52.5	58.6	87.3	59.3	55.6	65.2	61.8
Progeny	Progeny PGX 11-4	71.4	26.8	35.9	43.2	39.5	46.3	91.9	35.0	61.0	58.6	55.0
Progeny	Progeny 308	73.4	39.3	48.5	54.4	51.5	57.3	82.9	52.8	54.7	61.9	60.6
Public	GA 001138-8E36	67.1	52.4	58.4	54.6	56.5	40.7	74.9	52.4	51.0	54.8	57.0
Public	LA01110D-150	73.8	41.4	53.7	59.3	56.5	49.3	66.7	51.5	54.2	55.4	58.4
Public	LSU LA02015E201	66.7	40.5	48.6	49.3	49.0	48.1	63.6	46.6	47.8	51.5	53.0
Public	LSU LA02015E58	64.5	50.9	46.4	38.1	42.3	49.9	60.1	40.3	46.8	49.3	49.5
Public	LSU LA02024E12	59.7	47.6	49.9	38.5	44.2	58.2	70.5	44.8	64.3	59.5	55.1
Public	LSU LA04026D-7	63.8	48.2	44.7	42.4	43.5	48.8	59.6	43.5	60.6	53.1	51.9
Public	LSU LA04110D-7	73.8	30.9	47.3	54.2	50.8	35.8	63.6	27.9	49.8	44.3	50.3
Public	GA-021245-9E16	57.9	48.5	42.3	39.4	40.8	28.1	60.2	34.4	46.8	42.4	44.1
Public	VA Jamestown	52.0	33.3	48.5	47.2	47.8	50.8	76.8	48.2	57.6	58.3	54.4
Public	VA VA05W-151	68.2	34.1	53.3	56.6	55.0	30.4	51.7	40.8	45.2	42.0	49.5
Syngenta	Coker 9553	67.8	29.4	50.9	57.0	53.9	54.7	79.0	53.2	54.4	60.3	59.6
Syngenta	MAGNOLIA	72.5	28.1	43.5	73.8	58.7	45.7	71.8	41.0	55.5	53.5	57.7
Syngenta	Oakes	66.0	*	30.7	46.6	38.6	51.2	78.4	53.3	57.4	60.1	54.8
Syngenta	ARCADIA	66.2	48.3	45.7	63.4	54.5	45.8	67.8	34.4	46.8	48.7	52.9
Syngenta	B050154	76.2	35.6	51.5	38.9	45.2	40.0	91.7	50.5	56.5	59.7	57.9
Terral	LA821	63.6	50.1	45.0	41.9	43.4	49.0	64.7	39.7	47.3	50.2	50.2
Terral	LA841	73.7	48.7	44.8	40.5	42.7	50.2	62.6	44.5	59.1	54.1	53.6
Terral	TV 8861	68.0	33.8	60.2	51.3	55.8	51.2	85.7	51.9	59.5	62.1	61.1
Terral	TV 8525	71.8	32.0	54.1	64.9	59.5	54.9	78.0	52.8	56.9	60.7	61.9
Terral	TV 8535	75.1	31.2	48.7	57.0	52.9	50.5	87.8	58.1	61.1	64.4	62.6
Terral	TV 8626	70.8	24.9	50.5	36.0	43.2	26.1	74.9	35.6	57.5	48.5	50.2
Terral	TV 8848	65.2	36.6	53.9	50.6	52.2	46.0	83.8	47.3	52.5	57.4	57.0
USG	USG 3120	73.7	42.5	53.4	66.3	59.8	55.8	80.9	56.4	65.2	64.6	64.5
USG	USG 3201	76.4	33.6	57.2	60.0	58.6	63.6	93.4	66.6	65.5	72.3	69.0
USG	USG 3251	68.9	33.9	47.8	44.2	46.0	57.9	87.8	58.3	62.7	66.7	61.1
USG	USG 3438	68.3	27.6	49.3	49.2	49.3	57.6	85.8	51.4	64.9	64.9	60.9
USG	USG 3555	63.7	31.3	41.5	63.7	52.6	57.1	81.8	38.6	55.7	58.3	57.4
USG	USG 3562	70.4	30.1	45.8	38.3	42.0	47.2	76.9	53.2	52.5	57.4	54.9
Mean		67	36.3	47.9	47.6	47.7	49.9	78.2	47.5	54.4	57.5	56.1
LSD .1		10	6.8	6.7	6.47		5.4	8.2	8.6	16.9		
Error df		216	198	216	216		216	216	216	216		
CV		12.8	16.1	16.6	11.6		9.3	9	15.4	13.4		
R Sq		36.8	67.8	78.2	82.5		85.1	75.4	69.7	55.9		

* These plots were damaged so severely by deer feeding, no yields were collected.

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

Brand	Variety	Brooksville (North)	Newton	Raymond	South avg.	Cleveland	Issaquena County	Minter City	Stoneville	Delta avg.	State avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Terral	LA841	64.0	50.2	58.4	54.3	61.3	66.4	53.0	66.1	58.8	52.4
HBK	HBK 3266	68.6	60.4	69.5	64.9	60.9	62.3	59.0	63.4	61.8	55.5
Pioneer	26R15	63.8	57.1	68.4	62.8	60.6	79.2	56.6	69.2	64.8	56.9
Syngenta	Coker 9553	63.2	56.8	72.6	64.7	64.3	81.4	61.7	65.7	68.0	58.2
Syngenta	MAGNOLIA	68.3	48.7	78.3	63.5	58.2	78.8	59.0	64.3	64.9	57.0
AGS	AGS 2060	59.9	57.7	69.2	63.4	62.0	79.2	69.2	71.2	68.5	58.5
Dixie Bell	DB7440	51.3	39.0	62.5	50.7	55.5	72.8	46.5	58.2	56.4	48.2
Pioneer	26R87	72.4	60.2	71.8	66.0	68.4	80.0	69.4	76.6	70.9	62.4
AGS	AGS 2026	58.1	46.8	66.7	56.8	56.8	62.1	49.7	60.3	56.4	50.1
Terral	LA821	58.3	52.5	59.9	56.2	58.7	60.6	48.5	64.3	56.0	50.4
Progeny	Progeny 117	65.2	48.9	57.9	53.4	57.5	70.5	51.7	65.3	58.2	52.1
USG	USG 3555	65.9	51.0	74.5	62.7	64.2	93.7	53.7	62.3	68.6	58.2
AGS	AGS 2035	69.4	59.7	70.8	65.3	62.3	81.3	58.1	74.1	66.8	59.5
Dyna-Gro	Baldwin	64.1	59.3	78.6	69.0	60.5	94.7	66.9	72.5	72.7	62.1
Public	VA Jamestown	60.6	56.2	65.8	61.0	56.8	91.2	66.0	68.1	68.7	58.1
Syngenta	Oakes	59.3	35.2	57.4	46.3	64.4	82.9	62.5	59.3	64.0	52.6
Pioneer	26R20	60.5	62.1	63.7	62.9	55.8	84.7	68.2	64.0	67.9	57.4
Public	LA01110D-150	70.8	63.6	79.1	71.3	57.4	82.5	61.6	65.6	68.2	60.1
Armor	Ricochet	62.8	56.4	70.5	63.4	65.1	94.6	61.9	68.1	71.3	59.9
Delta Grow	Delta Grow 8300	54.2	44.5	66.3	55.4	63.3	73.9	51.0	57.6	60.9	51.3
Progeny	Progeny 125	63.6	43.7	71.4	57.5	57.6	69.8	49.1	62.9	58.5	52.3
Syngenta	ARCADIA	66.6	53.1	73.1	63.1	61.7	76.8	55.7	58.8	64.3	55.7
Terral	TV 8861	68.1	70.0	71.6	70.8	62.8	89.2	71.4	74.8	73.5	63.5
USG	USG 3201	71.2	63.3	74.8	69.1	67.4	93.2	81.6	74.4	77.8	65.7
USG	USG 3438	69.8	61.4	71.9	66.6	64.2	91.2	73.7	75.9	73.9	63.5
Dixie Bell	DB 620	70.7	59.8	72.9	66.4	61.6	99.0	54.9	69.8	70.5	61.1
Delta Grow	Delta Grow 7500	64.5	53.2	72.1	62.7	66.4	90.9	66.8	63.3	71.7	59.7
Delta Grow	Delta Grow 7900	60.3	49.5	57.1	53.3	52.4	75.5	59.9	53.8	60.3	51.1
Dyna-Gro	Dyna-Gro 9053	59.6	58.0	58.7	58.3	50.4	87.6	54.2	64.8	62.6	54.2
Dyna-Gro	Dyna-Gro 9171	69.9	55.5	83.2	69.3	68.1	95.0	69.4	67.5	75.5	63.6
Terral	TV 8535	68.1	59.1	69.6	64.4	61.6	90.4	72.8	72.4	72.3	61.7
Terral	TV 8626	66.6	62.8	64.1	63.5	44.5	86.9	54.3	69.7	62.3	56.1
Terral	TV 8525	67.8	61.6	77.6	69.6	63.7	89.0	68.1	70.5	72.6	62.3
Terral	TV 8848	71.5	65.1	75.6	70.4	59.4	86.4	66.8	70.1	70.7	61.9
USG	USG 3251	70.2	62.4	70.3	66.4	61.9	95.8	69.4	70.2	73.3	62.5
USG	USG 3120	71.2	62.9	81.6	72.3	61.5	86.2	67.3	77.8	71.8	63.6
Public	GA 001138-8E36	59.3	65.4	70.5	67.9	57.6	81.1	67.9	62.7	68.6	58.1
Dixie	Kelsey	67.2	60.3	66.2	63.2	68.7	93.9	75.9	67.9	75.4	62.5
Dixie	McAlister	66.6	60.7	77.8	69.3	60.8	93.9	68.4	76.1	73.1	63.0
AgriMAXX	AgriMAXX 413	70.3	63.3	77.9	70.6	63.7	97.6	72.2	73.1	76.0	64.8
AgriMAXX	AgriMAXX 415	70.1	59.8	72.8	66.3	64.9	95.3	74.7	70.3	75.3	63.5
Mean		65.2	56.5	70.1	63.3	60.8	83.8	62.7	67.4	67.7	58.3

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

Brand	Variety	Brooksville (North)	Newton	Raymond	South avg.	Cleveland	Issaquena County	Minter City	Stoneville	Delta avg.	State avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Terral	LA841	60.6	52.7	61.2	57.0	62.8	69.0	58.8	64.0	63.6	61.3
HBK	HBK 3266	65.9	61.0	73.5	67.2	57.7	64.7	65.0	62.8	62.5	64.4
Pioneer	26R15	61.7	57.4	69.4	63.4	59.0	81.3	66.4	67.1	68.5	66.1
Syngenta	Coker 9553	59.3	60.3	72.7	66.5	65.7	81.8	69.6	62.7	70.0	67.4
Syngenta	MAGNOLIA	63.8	52.8	72.7	62.8	60.0	80.1	65.0	63.6	67.2	65.4
AGS	AGS 2060	58.2	58.8	66.5	62.6	63.0	79.6	77.4	66.6	71.6	67.1
Dixie Bell	DB7440	51.7	43.8	58.0	50.9	57.7	73.7	57.0	57.2	61.4	57.0
Pioneer	26R87	69.1	60.6	73.6	67.1	66.2	77.8	75.9	72.4	73.1	70.8
AGS	AGS 2026	54.7	51.7	62.2	57.0	56.5	63.8	57.6	62.1	60.0	58.4
Terral	LA821	58.5	55.4	61.4	58.4	54.5	62.9	56.4	63.1	59.2	58.9
Progeny	Progeny 117	63.2	51.2	60.2	55.7	55.8	70.3	58.9	63.8	62.2	60.5
USG	USG 3555	58.8	52.4	69.1	60.7	64.6	87.4	62.5	61.0	68.9	65.1

Continued.

Table 5 (continued). Three-year summary of wheat variety trials in Mississippi.

Brand	Variety	Brooksville (North)	Newton	Raymond	South avg.	Cleveland	Issaquena County	Minter City	Stoneville	Delta avg.	State avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AGS	AGS 2035	57.1	62.0	71.7	66.9	66.9	77.7	67.5	69.5	70.4	67.5
Dyna-Gro	Baldwin	57.1	59.9	77.0	68.5	61.0	95.7	73.9	67.5	74.5	70.3
Public	VA Jamestown	55.5	57.0	63.6	60.3	55.8	85.6	70.7	64.7	69.2	64.7
Syngenta	Oakes	56.7	43.6	59.1	51.4	62.0	80.4	68.0	60.4	67.7	61.4
Pioneer	26R20	60.9	61.2	65.5	63.3	55.9	81.4	73.7	63.1	68.5	66.0
Public	LA01110D-150	68.3	66.1	74.6	70.4	61.8	84.4	67.6	63.5	69.3	69.5
Armor	ARX 9304	60.9	58.3	73.4	65.9	62.6	92.2	70.0	65.1	72.5	68.9
Delta Grow	Delta Grow 8300	58.7	49.3	66.0	57.6	62.3	77.1	61.8	58.1	64.8	61.9
Progeny	Progeny 125	57.2	49.6	65.2	57.4	59.2	71.1	58.8	59.1	62.0	60.0
Syngenta	ARCADIA	63.3	57.5	71.7	64.6	60.1	78.8	63.3	59.8	65.5	64.9
Terral	TVX8861	66.5	70.6	73.4	72.0	63.2	90.4	77.9	71.6	75.8	73.4
USG	USG 3201	69.9	64.8	70.2	67.5	65.4	90.7	85.3	72.8	78.6	74.2
USG	USG 3438	69.0	62.8	72.9	67.9	66.4	89.5	78.6	73.4	77.0	73.2
Mean		61.1	56.8	68.2	62.5	61.0	79.5	67.5	64.6	68.2	65.5

Table 6. Yields of 73 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville Silty Clay Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
HBK	HBK 3266	78.7	68.6	65.9	59	40	3/25	1	38
Armor	ARX 1133	76.5	—	—	59	31	4/4	1	34
USG	USG 3201	76.4	71.2	69.9	58	35	4/1	1	32
Syngenta	B050154	76.2	—	—	58	36	4/7	1	30
Terral	TV 8535	75.1	68.1	—	56	35	4/6	1	35
Pioneer	26R87	74.2	72.4	69.1	61	44	3/29	1	31
AGS	AGS 2035	74.1	69.4	57.1	61	48	3/25	1	41
Public	LA01110D-150	73.8	70.8	68.3	58	44	3/24	1	33
Public	LSU LA04110D-7	73.8	—	—	60	41	3/25	1	36
USG	USG 3120	73.7	71.2	—	59	39	3/30	1	40
Terral	LA841	73.7	64.0	60.6	56	35	3/24	1	38
Progeny	Progeny 308	73.4	—	—	56	33	4/6	1	38
Dyna-Gro	Baldwin	72.9	64.1	57.1	61	42	3/31	1	38
Syngenta	MAGNOLIA	72.5	68.3	63.8	59	43	3/31	1	34
Dixie Bell	DB 412	71.9	—	—	59	37	4/1	1	33
Terral	TV 8525	71.8	67.8	—	59	38	4/4	1	37
Progeny	Progeny PGX 11-4	71.4	—	—	56	37	4/3	1	32
Armor	ARX 1175	71.0	—	—	57	37	4/2	1	38
JGL	Exp 32110	70.9	—	—	58	37	4/1	2	34
Terral	TV 8626	70.8	66.6	—	59	37	4/1	1	34
Progeny	Progeny 125	70.4	63.6	57.2	56	33	3/24	1	35
USG	USG 3562	70.4	—	—	59	40	4/4	1	33
Dixie	Exp 1112	70.4	—	—	57	35	4/8	1	35
JGL	Exp 32111	70.0	—	—	60	35	4/3	1	33
Armor	ARX 1109	70.0	—	—	58	37	4/2	1	35
Dixie Bell	DB 620	69.7	70.7	—	58	33	4/7	1	30
USG	USG 3251	68.9	70.2	—	60	44	3/26	1	34
JGL	Exp 32113	68.7	—	—	60	44	3/31	1	32
AgriMAXX	AgriMAXX 413	68.7	70.3	—	60	39	4/1	1	34
Dixie Bell	DB 999	68.4	—	—	56	37	4/3	1	32
USG	USG 3438	68.3	69.8	69.0	57	34	4/2	1	33
Public	VA VA05W-151	68.2	—	—	58	35	3/25	1	31
Terral	TV 8861	68.0	68.1	66.5	60	33	4/1	1	33
Syngenta	Coker 9553	67.8	63.2	59.3	60	39	3/24	1	35
Delta Grow	Delta Grow 7300	67.7	—	—	59	36	4/4	1	33
Pioneer	26R20	67.6	60.5	60.9	60	35	4/7	1	34
Pioneer	26R22	67.5	—	—	62	37	4/4	1	38
Public	GA 001138-8E36	67.1	59.3	—	60	38	4/8	1	29
JGL	Exp 32112	66.9	—	—	58	36	4/2	1	31
Public	LSU LA02015E201	66.7	—	—	59	39	3/26	1	31

Continued.

Table 6 (continued). Yields of 73 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville Silty Clay Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Progeny	P870	66.7	—	—	55	36	4/7	1	30
Pioneer	26R10	66.4	—	—	59	37	3/26	1	32
Syngenta	ARCADIA	66.2	66.6	63.3	59	36	4/4	1	32
Syngenta	Oakes	66.0	59.3	56.7	60	36	4/2	1	30
Dyna-Gro	Dyna-Gro 9171	65.9	69.9	—	58	32	4/3	1	34
Dixie	Kelsey	65.6	67.2	—	59	33	4/8	1	34
AgriMAXX	AgriMAXX 415	65.6	70.1		58	41	4/4	1	32
Pioneer	26R15	65.5	63.8	61.7	59	36	4/3	1	33
Terral	TV 8848	65.2	71.5	—	58	41	4/4	1	33
Progeny	Progeny 357	65.0	—	—	57	33	4/2	1	33
Progeny	Progeny 117	64.8	65.2	63.2	57	38	3/22	1	34
Public	LSU LA02015E58	64.5	—	—	59	36	3/24	1	32
Public	LSU LA04026D-7	63.8	—	—	60	43	3/24	1	35
AgriMAXX	AgriMAXX 424	63.7	—	—	58	36	3/31	1	35
USG	USG 3555	63.7	65.9	58.8	59	43	3/27	1	29
Terral	LA821	63.6	58.3	58.5	58	38	3/24	1	38
Delta Grow	Delta Grow 8300	63.1	54.2	58.7	57	35	3/26	2	36
AGS	AGS 2060	62.9	59.9	58.2	62	44	3/25	1	33
Armor	ARX 1107	62.3	—	—	57	38	4/2	1	33
Dixie Bell	DB7440	61.5	51.3	51.7	58	39	3/25	1	44
Armor	Ricochet	61.5	62.8	60.9	58	36	4/9	1	35
Dixie	McAlister	61.2	66.6	—	59	34	4/3	1	32
Delta Grow	Delta Grow 8600	60.8	—	—	58	40	4/4	1	32
Pioneer	XW10T	60.4	—	—	59	37	4/8	1	28
Public	LSU LA02024E12	59.7	—	—	59	40	3/25	1	34
Dyna-Gro	Dyna-Gro 9053	59.7	59.6	—	59	33	4/2	1	34
Delta Grow	Delta Grow 7900	59.6	60.3	—	56	35	4/5	1	34
Pioneer	XW10V	58.0	—	—	60	37	4/8	1	30
Public	UGA GA-021245-9E16	57.9	—	—	59	34	3/29	1	34
Progeny	Progeny 185	57.8	—	—	59	39	4/1	1	31
Delta Grow	Delta Grow 7500	57.4	64.5	—	59	38	4/4	1	32
AGS	AGS 2026	52.2	58.1	54.7	57	57	3/28	1	32
Public	VA Jamestown	52.0	60.6	55.5	60	36	3/24	1	32

[1]Planted November 8, 2011 Harvested May 22, 2012 Soil fertility: pH=6.2; P=M; K=M
Fertilizer added: 13-13-13 preplant @ 300 lb/A; N @ 80 lb/A (32% N-Sol) Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 7. Yields of 73 wheat varieties at Donald Gant Farms, Cleveland (Brittain Silt Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Pioneer	26R87	70.4	68.4	62.8	61	39	3/25	2	34
Pioneer	XW10T	67.6	—	—	62	37	3/28	1	35
JGL	Exp 32110	67.4	—	—	55	31	3/26	1	38
Pioneer	XW10V	65.0	—	—	61	36	3/27	1	34
USG	USG 3201	63.6	67.4	61.7	58	34	3/27	2	40
Armor	ARX 1133	61.8	—	—	57	35	3/26	1	36
Dyna-Gro	Dyna-Gro 9171	61.6	68.1	—	56	32	3/28	1	36
Dixie	Kelsey	60.7	68.7	—	54	34	3/27	1	37
JGL	Exp 32112	60.3	—	—	60	36	3/24	2	34
Delta Grow	Delta Grow 7500	59.2	66.4	—	60	35	3/28	1	38
Progeny	Progeny 870	58.6	—	—	50	30	3/26	3	34
Public	LSU LA02024E12	58.2	—	—	60	34	3/24	4	41
Delta Grow	Delta Grow 8300	57.9	63.3	61.6	55	33	3/24	2	36
USG	USG 3251	57.9	61.9	—	59	38	3/26	3	34
USG	USG 3438	57.6	64.2	64.6	58	34	3/26	1	38
AgriMAXX	AgriMAXX 413	57.3	63.7	—	57	38	3/26	3	32
Progeny	Progeny 308	57.3	—	—	56	31	3/28	2	35
USG	USG 3555	57.1	64.2	64.9	57	37	3/24	2	38

Continued.

Table 7 (continued). Yields of 73 wheat varieties at Donald Gant Farms, Cleveland (Brittain Silt Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Pioneer	26R22	56.9	—	—	61	37	3/25	2	34
Armor	Ricochet	56.7	65.1	62.6	57	35	3/27	2	35
USG	USG 3120	55.8	61.5	—	60	36	3/30	2	31
AgriMAXX	AgriMAXX 415	55.8	64.9	—	54	32	3/27	2	28
Terral	TV 8525	54.9	63.7	—	56	34	3/27	1	38
Syngenta	Coker 9553	54.7	64.3	68.6	58	33	3/24	3	37
Dixie Bell	DB 620	52.3	61.6	—	57	32	3/29	1	33
AGS	AGS 2060	52.1	62.0	66.1	61	38	3/24	3	37
Armor	ARX 1107	51.6	—	—	57	34	3/29	1	38
Terral	TV 8861	51.2	62.8	64.4	59	34	3/29	1	36
Syngenta	Oakes	51.2	64.4	64.0	61	37	3/30	2	32
Public	VA Jamestown	50.8	56.8	58.0	56	36	3/24	3	35
Dixie Bell	DB 412	50.5	—	—	58	34	3/30	1	33
AGS	AGS 2035	50.5	62.3	69.3	60	41	3/23	2	37
JGL	Exp 32113	50.5	—	—	59	38	3/25	1	33
Terral	TV 8535	50.5	61.6	—	50	31	3/29	1	33
Progeny	Progeny 185	50.2	—	—	59	36	3/25	1	37
Terral	LA841	50.2	61.3	68.6	54	32	3/25	3	33
Public	LSU LA02015E58	49.9	—	—	61	34	3/24	2	38
Pioneer	26R10	49.9	—	—	58	34	3/28	1	38
Dixie Bell	DB 999	49.8	—	—	57	37	3/28	1	34
Dixie	McAlister	49.6	60.8	—	56	32	3/26	1	33
Public	LA01110D-150	49.3	57.4	64.3	59	39	3/25	3	34
Terral	LA821	49.0	58.7	57.7	57	34	3/25	4	40
Pioneer	26R15	48.9	60.6	64.4	58	35	3/26	3	40
Public	LSU LA04026D-7	48.8	—	—	57	37	3/29	3	31
Pioneer	26R20	48.3	55.8	58.8	58	35	3/28	4	38
Delta Grow	Delta Grow 8600	48.2	—	—	58	34	3/27	3	33
Public	LSU LA02015E201	48.1	—	—	57	37	3/25	4	40
Dyna-Gro	Baldwin	47.9	60.5	64.3	59	30	3/27	1	37
Progeny	Progeny 117	47.5	57.5	59.4	53	31	3/26	4	35
Dixie	Exp 1112	47.2	—	—	56	31	3/27	1	38
USG	USG 3562	47.2	—	—	59	34	3/28	1	36
Progeny	Progeny PGX 11-4	46.3	—	—	51	30	3/27	3	39
Terral	TV 8848	46.0	59.4	—	56	38	3/30	2	40
Syngenta	ARCADIA	45.8	61.7	63.1	58	34	3/25	3	38
Syngenta	MAGNOLIA	45.7	58.2	65.4	57	33	3/23	2	36
Dixie Bell	DB7440	45.3	55.5	62.8	60	35	3/23	1	39
HBK	HBK 3266	45.2	60.9	65.1	60	35	3/25	2	35
AgriMAXX	AgriMAXX 424	45.2	—	—	60	35	3/28	1	34
Progeny	Progeny 125	44.1	57.6	63.1	58	35	3/24	2	36
AGS	AGS 2026	43.0	56.8	61.8	58	34	3/24	3	35
Armor	ARX 1175	41.9	—	—	55	32	3/29	1	37
JGL	Exp 32111	41.7	—	—	61	38	3/30	1	37
Armor	ARX 1109	41.0	—	—	56	32	3/30	1	34
Public	GA 001138-8E36	40.7	57.6	—	61	36	3/26	4	41
Syngenta	B050154	40.0	—	—	56	36	3/28	1	39
Delta Grow	Delta Grow 7900	39.4	52.4	—	52	31	3/25	3	35
Public	LSU LA04110D-7	35.8	—	—	61	37	3/29	1	41
Delta Grow	Delta Grow 7300	35.0	—	—	57	35	3/30	4	38
Dyna-Gro	Dyna-Gro 9053	30.9	50.4	—	55	32	3/30	1	34
Public	VA VA05W-151	30.4	—	—	59	35	3/23	3	32
Progeny	Progeny 357	29.2	—	—	56	30	3/28	3	38
Public	UGA GA-021245-9E16	28.1	—	—	57	34	3/24	2	33
Terral	TV 8626	26.1	44.5	—	58	35	3/30	1	34
Mean		49.9							
LSD .1		5.4							
Error df		216							
CV		9.3							
R Sq		5.1							

[1]Planted October 20, 2011 Harvested May 24, 2012 Soil fertility: pH=6.2; P=M; K=M
Fertilizer added: 13-13-13 preplant @ 300 lb/A; N @ 120 lb/A (32% N-Sol) Previous crop: Corn
[2]See "Procedures" for a description of lodging scores.

Table 8. Yields of 73 wheat varieties at Todd Heigle Farms, Issaquena County (Sharkey Mixed Clay Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
JGL	Exp 32110	97.5	—	—	58	37	3/26	2	34
USG	USG 3201	93.4	46.7	90.7	57	35	3/30	1	32
Progeny	Progeny PGX 11-4	91.9	—	—	52	35	4/2	2	29
Syngenta	B050154	91.7	—	—	58	37	3/29	1	34
Pioneer	XW10T	91.7	—	—	60	40	3/30	1	33
JGL	Exp 32113	91.4	—	—	60	43	3/26	1	32
Dyna-Gro	Dyna-Gro 9171	90.6	45.3	—	58	37	3/30	1	33
AgriMAXX	AgriMAXX 413	90.3	45.1	—	60	40	3/28	1	31
AgriMAXX	AgriMAXX 415	89.7	44.9	—	58	38	3/29	1	38
Dixie Bell	DB 620	89.5	44.7	—	58	34	3/30	1	33
Dixie	Exp 1112	89.5	—	—	59	40	3/21	1	38
Pioneer	XW10V	88.7	—	—	60	38	3/31	1	33
Dixie	Kelsey	88.6	44.3	—	58	33	3/27	1	32
USG	USG 3251	87.8	43.9	—	60	43	3/18	1	35
Terral	TV 8535	87.8	43.9	—	55	34	4/4	1	34
JGL	Exp 32112	87.5	—	—	60	39	3/30	2	33
Progeny	Progeny 870	87.3	—	—	53	32	4/3	2	36
Dixie	McAlister	87.2	43.6	—	57	36	4/1	1	33
Armor	ARX 1133	86.5	—	—	59	34	4/2	1	33
Pioneer	26R87	86.3	43.1	77.8	62	47	3/19	1	35
USG	USG 3438	85.8	42.9	89.5	59	40	3/29	1	37
Terral	TV 8861	85.7	42.9	90.4	60	38	3/27	2	33
Pioneer	26R20	84.7	42.4	81.4	61	39	4/3	1	37
Armor	Ricochet	84.2	42.1	92.2	58	34	4/4	1	33
Terral	TV 8848	83.8	41.9	—	59	38	3/29	1	35
Delta Grow	Delta Grow 7500	83.6	41.8	—	61	37	3/27	1	38
Pioneer	26R10	83.1	—	—	58	33	3/19	1	35
Progeny	Progeny 308	82.9	—	—	56	35	4/1	2	36
Dixie Bell	DB 412	82.2	—	—	59	35	3/30	2	33
Pioneer	26R15	82.0	41.0	81.3	59	34	3/30	1	34
USG	USG 3555	81.8	40.9	87.4	58	39	3/20	1	32
USG	USG 3120	80.9	40.5	—	59	33	3/27	2	38
AGS	AGS 2035	80.8	40.4	77.7	60	44	3/18	1	35
Dyna-Gro	Baldwin	80.3	40.1	95.7	60	41	3/26	1	39
Dixie Bell	DB 999	80.2	—	—	58	37	4/2	2	35
Delta Grow	Delta Grow 8600	79.9	—	—	58	37	4/3	1	31
Armor	ARX 1107	79.6	—	—	57	35	3/29	1	34
Delta Grow	Delta Grow 7900	79.3	39.7	—	56	35	4/5	1	34
Pioneer	26R22	79.3	—	—	60	37	4/2	1	37
Syngenta	Coker 9553	79.0	39.5	81.8	60	37	3/23	1	38
Syngenta	Oakes	78.4	39.2	80.4	59	34	3/21	2	36
Terral	TV 8525	78.0	39.0	—	59	41	4/4	2	35
AGS	AGS 2060	77.8	38.9	79.6	60	37	3/21	2	35
USG	USG 3562	76.9	—	—	59	36	4/3	1	33
Public	VA Jamestown	76.8	38.4	85.6	60	34	3/18	1	34
JGL	Exp 32111	76.7	—	—	60	34	4/4	2	37
AgriMAXX	AgriMAXX 424	76.4	—	—	55	36	3/25	2	37
Progeny	Progeny 357	75.9	—	—	57	35	4/1	1	33
Terral	TV 8626	74.9	37.5	—	59	38	3/28	1	33
Public	GA 001138-8E36	74.9	37.4	—	60	41	3/30	1	32
Armor	ARX 1109	74.2	—	—	57	33	3/30	2	33
Armor	ARX 1175	74.0	—	—	58	38	3/25	1	36
Dyna-Gro	Dyna-Gro 9053	72.4	36.2	—	58	38	3/30	1	34
Delta Grow	Delta Grow 7300	72.0	—	—	59	38	4/1	1	34
Syngenta	MAGNOLIA	71.8	35.9	80.1	57	36	3/20	2	34
Public	LSU LA02024E12	70.5	—	—	58	36	3/18	1	37
Progeny	Progeny 185	70.4	—	—	58	34	3/26	2	33
Syngenta	ARCADIA	67.8	33.9	78.8	59	39	4/2	1	33
Public	LA01110D-150	66.7	33.3	84.4	58	46	3/23	2	37
Progeny	Progeny 117	65.4	32.7	70.3	56	33	3/19	2	36
AGS	AGS 2026	64.8	32.4	63.8	57	36	3/17	2	33
Terral	LA821	64.7	32.3	62.9	60	36	3/18	2	38
Delta Grow	Delta Grow 8300	64.4	32.2	77.1	56	36	3/21	2	35
Progeny	Progeny 125	64.2	32.1	71.1	54	32	3/17	2	37

Continued.

Table 8 (continued). Yields of 73 wheat varieties at Todd Heigle Farms, Issaquena County (Sharkey Mixed Clay Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Public	LSU LA02015E201	63.6	—	—	59	36	3/19	2	34
Public	LSU LA04110D-7	63.6	—	—	60	36	3/19	1	33
HBK	HBK 3266	63.2	31.6	64.7	59	37	3/20	2	37
Terral	LA841	62.6	31.3	69.0	58	35	3/20	2	38
Public	UGA GA-021245-9E16	60.2	—	—	57	33	3/19	1	36
Public	LSU LA02015E58	60.1	—	—	58	35	3/17	2	37
Public	LSU LA04026D-7	59.6	—	—	58	37	3/20	2	35
Dixie Bell	DB7440	58.5	29.3	73.7	58	32	3/24	2	43
Public	VA VA05W-151	51.7	—	—	59	35	3/21	2	35
Mean		78.2							
LSD .1		8.2							
Error df		216							
CV		9							
R Sq		75.4							

[1]Planted November 7, 2011 Harvested May 23, 2012
Fertilizer added: 120 lb (46-0-0) split application February 15 and March 30
Herbicide: Finesse at .04 oz/A on November 1, 2011
[2]See "Procedures" for a description of lodging scores.
Soil fertility: pH=6.0; P=M; K=M
Previous crop: Corn
Fungicide: Avaris at 14 oz/A on March 30, 2012

Table 9. Yields of 73 wheat varieties at MAFES Delta Branch, Stoneville (Tunica Silty Clay Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed[2]	Lodging score[3]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Pioneer	26R87	65.6	76.6	71.5	61	44	—	1	34
USG	USG 3201	65.5	74.4	70.2	58	34	—	1	31
USG	USG 3120	65.2	77.8	—	60	44	—	1	37
USG	USG 3438	64.9	75.9	70.9	56	31	—	1	32
Armor	ARX 1107	64.3	—	—	59	35	—	1	37
Public	LSU LA02024E12	64.3	—	—	59	39	—	1	35
AGS	AGS 2060	64.3	71.2	66.7	57	32	—	1	38
AgriMAXX	AgriMAXX 413	62.9	73.1	—	57	38	—	1	34
USG	USG 3251	62.7	70.2	—	61	43	—	1	36
Dyna-Gro	Baldwin	62.5	72.5	66.9	61	40	—	1	38
AGS	AGS 2035	61.5	74.1	69.4	59	39	—	1	37
Terral	TV 8535	61.1	72.4	—	56	34	—	1	35
Progeny	Progeny PGX 11-4	61.0	—	—	55	31	—	2	39
Public	LSU LA04026D-7	60.6	—	—	60	42	—	1	38
Pioneer	26R10	60.2	—	—	57	34	—	2	35
Dixie	McAlister	60.0	76.1	—	58	33	—	1	37
Delta Grow	Delta Grow 8600	59.9	—	—	57	37	—	1	32
Terral	TV 8861	59.5	74.8	71.0	61	41	—	1	33
Dixie	Kelsey	59.5	67.9	—	58	33	—	1	34
Terral	LA841	59.1	66.1	66.2	57	37	—	1	31
JGL	Exp 32112	58.9	—	—	59	34	—	1	35
Public	VA Jamestown	57.6	68.1	65.6	60	33	—	1	34
JGL	Exp 32111	57.6	—	—	60	35	—	3	34
Terral	TV 8626	57.5	69.7	—	59	38	—	1	35
Syngenta	Oakes	57.4	59.3	61.2	58	29	—	4	37
AgriMAXX	AgriMAXX 415	56.9	70.3	—	56	36	—	1	32
Terral	TV 8525	56.9	70.5	—	60	41	—	1	34
Pioneer	XW10T	56.8	—	—	60	41	—	1	33
Syngenta	B050154	56.5	—	—	56	36	—	1	34
Progeny	Progeny 117	56.5	65.3	65.4	59	34	—	1	33
Armor	ARX 1133	56.3	—	—	59	32	—	1	34
Dixie Bell	DB 620	56.1	69.8	—	58	34	—	3	34
USG	USG 3555	55.7	62.3	62.8	58	36	—	1	30
Pioneer	26R22	55.6	—	—	60	38	—	1	38
Progeny	Progeny 870	55.6	—	—	56	38	—	1	32

Continued.

Table 9 (continued). Yields of 73 wheat varieties at MAFES Delta Branch, Stoneville (Tunica Silty Clay Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed[2]	Lodging score[3]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Syngenta	MAGNOLIA	55.5	64.3	66.6	56	31	—	2	35
JGL	Exp 32113	55.5	—	—	59	38	—	2	33
Pioneer	XW10V	55.3	—	—	59	39	—	1	36
Dixie Bell	DB 999	55.0	—	—	57	31	—	1	33
JGL	Exp 32110	55.0	—	—	56	34	—	2	32
Progeny	Progeny 308	54.7	—	—	57	34	—	1	36
Dyna-Gro	Dyna-Gro 9171	54.5	67.5	—	59	36	—	1	34
Syngenta	Coker 9553	54.4	65.7	66.2	60	34	—	1	34
Public	LA01110D-150	54.2	65.6	65.3	58	43	—	2	38
Progeny	Progeny 125	54.1	62.9	60.7	58	32	—	1	34
Pioneer	26R15	53.5	69.2	71.1	58	33	—	2	35
Armor	ARX 1109	53.3	—	—	58	36	—	2	35
Terral	TV 8848	52.5	70.1	—	59	35	—	1	35
USG	USG 3562	52.5	—	—	59	36	—	1	33
Armor	ARX 1175	52.2	—	—	58	36	—	1	35
Public	GA 001138-8E36	51.0	62.7	—	60	36	—	1	40
Progeny	Progeny 185	50.9	—	—	59	36	—	1	36
Dixie Bell	DB7440	50.4	58.2	61.8	58	35	—	1	32
AgriMAXX	AgriMAXX 424	50.3	—	—	58	33	—	1	31
Public	LSU LA04110D-7	49.8	—	—	60	36	—	3	38
Armor	Ricochet	49.0	68.1	68.6	57	33	—	2	36
Dixie Bell	DB 412	48.8	—	—	59	36	—	2	35
Public	LSU LA02015E201	47.8	—	—	56	32	—	1	33
Dixie	Exp 1112	47.4	—	—	57	37	—	1	36
Terral	LA821	47.3	64.3	68.2	59	35	—	1	33
Public	LSU LA02015E58	46.8	—	—	58	36	—	2	35
Public	UGA GA-021245-9E16	46.8	—	—	59	35	—	1	35
Syngenta	ARCADIA	46.8	58.8	63.4	60	36	—	1	36
Dyna-Gro	Dyna-Gro 9053	46.6	64.8	—	59	33	—	3	35
Public	VA VA05W-151	45.2	—	—	59	35	—	3	34
Delta Grow	Delta Grow 7300	45.1	—	—	59	37	—	2	33
Delta Grow	Delta Grow 7500	45.0	63.3	—	59	36	—	1	32
Pioneer	26R20	44.8	64.0	68.1	59	36	—	1	35
HBK	HBK 3266	44.8	63.4	69.7	60	35	—	3	37
AGS	AGS 2026	44.2	60.3	68.2	56	34	—	1	34
Progeny	Progeny 357	42.3	—	—	58	34	—	2	33
Delta Grow	Delta Grow 8300	36.0	57.6	65.8	57	36	—	3	36
Delta Grow	Delta Grow 7900	34.6	53.8	—	54	31	—	4	39
Mean		54.4							
LSD .1		16.9							
Error df		216							
CV		13.4							
R sq		55.9							

[1]Planted November 7, 2011 Harvested May 29, 2012 Soil Fertility: pH=6.3; P=M; K=M
Fertilizer added: N @ 101 lb/A (46-0-0) on February 28, 2012 Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 10. Yields of 73 wheat varieties at MAFES Coastal Plain Branch, Newton (Prentiss Very Fine Sandy Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Pioneer	XW10T	62.9	—	—	—	—	4/4	1	34
Terral	TV 8861	60.2	70.0	67.8	—	—	4/2	1	35
Dyna-Gro	Baldwin	59.7	59.3	58.0	—	—	3/27	1	41
Public	GA 001138-8E36	58.4	65.4	—	—	—	4/2	1	34
Pioneer	XW10V	58.1	—	—	—	—	4/2	1	31
HBK	HBK 3266	57.3	60.4	62.0	—	—	3/21	2	37
USG	USG 3201	57.2	63.3	62.9	—	—	4/2	1	32
Dixie Bell	DB 620	55.5	59.8	—	—	—	4/2	1	33
JGL	Exp 32110	54.6	—	—	—	—	4/2	1	31
Terral	TV 8525	54.1	61.6	—	—	—	4/4	1	35
Armor	ARX 1109	54.0	—	—	—	—	3/30	1	35
Delta Grow	Delta Grow 7300	53.9	—	—	—	—	4/2	1	32
Terral	TV 8848	53.9	65.1	—	—	—	4/4	1	35
Armor	ARX 1175	53.8	—	—	—	—	4/2	1	38
Public	LA01110D-150	53.7	63.6	66.0	—	—	3/19	2	36
JGL	Exp 32111	53.5	—	—	—	—	4/9	1	34
Pioneer	26R22	53.4	—	—	—	—	4/2	1	35
USG	USG 3120	53.4	62.9	—	—	—	3/25	1	37
Public	VA VA05W-151	53.3	—	—	—	—	3/22	1	31
Dyna-Gro	Dyna-Gro 9053	52.6	58.0	—	—	—	4/2	1	34
Pioneer	26R20	52.0	62.1	61.7	—	—	4/4	1	33
AGS	AGS 2035	51.9	59.7	62.7	—	—	3/19	1	38
AgriMAXX	Agri MAXX 415	51.9	59.8	—	—	—	4/2	1	35
Syngenta	B050154	51.5	—	—	—	—	4/4	1	32
Syngenta	Coker 9553	50.9	56.8	62.8	—	—	3/22	1	34
Progeny	Progeny 357	50.7	—	—	—	—	4/4	1	34
Terral	TV 8626	50.5	62.8	—	—	—	4/2	1	35
Dixie	Kelsey	50.3	60.3	—	—	—	4/4	1	30
Public	LSU LA02024E12	49.9	—	—	—	—	3/19	1	34
Delta Grow	Delta Grow 8600	49.8	—	—	—	—	4/4	1	34
Pioneer	26R10	49.6	—	—	—	—	3/16	1	33
USG	USG 3438	49.3	61.4	63.4	—	—	4/2	1	36
Terral	TV 8535	48.7	59.1	—	—	—	4/4	1	31
Public	LSU LA02015E201	48.6	—	—	—	—	3/11	1	34
Progeny	Progeny 308	48.5	—	—	—	—	4/4	1	37
Public	VA Jamestown	48.5	56.2	58.7	—	—	3/19	1	33
Dixie Bell	DB 999	48.0	—	—	—	—	4/4	1	35
USG	USG 3251	47.8	62.4	—	—	—	3/11	1	39
AgriMAXX	AgriMAXX 413	47.5	63.3	—	—	—	4/2	1	32
Armor	ARX 1107	47.5	—	—	—	—	4/2	1	32
Public	LSU LA04110D-7	47.3	—	—	—	—	3/19	2	32
AGS	AGS 2060	46.8	57.7	62.3	—	—	3/19	1	36
Dyna-Gro	Dyna-Gro 9171	46.8	55.5	—	—	—	4/4	1	31
Public	LSU LA02015E58	46.4	—	—	—	—	3/16	2	37
Pioneer	26R87	46.2	60.2	63.7	—	—	3/22	1	32
USG	USG 3562	45.8	—	—	—	—	4/4	1	30
Syngenta	ARCADIA	45.7	53.1	59.5	—	—	4/4	1	32
Dixie Bell	DB 412	45.1	—	—	—	—	4/3	1	34
Terral	LA821	45.0	52.5	58.5	—	—	3/19	1	36
Pioneer	26R15	44.9	57.1	62.4	—	—	4/2	1	35
Terral	LA841	44.8	50.2	58.8	—	—	3/19	1	33
Dixie	Exp 1112	44.7	—	—	—	—	4/4	1	33
Public	LSU LA04026D-7	44.7	—	—	—	—	3/19	2	36
Armor	ARX 1133	43.7	—	—	—	—	4/4	1	32
Dixie Bell	DB7440	43.6	39.0	48.4	—	—	3/27	1	41
Syngenta	MAGNOLIA	43.5	48.7	57.7	—	—	3/22	1	34
Progeny	Progeny 870	43.2	—	—	—	—	4/4	1	34
Progeny	Progeny 125	42.6	43.7	52.7	—	—	3/21	1	33
AgriMAXX	AgriMAXX 424	42.5	—	—	—	—	3/28	1	38
Public	UGA GA-021245-9E16	42.3	—	—	—	—	3/16	2	36
Dixie	McAlister	42.2	60.7	—	—	—	4/2	1	33
USG	USG 3555	41.5	51.0	56.5	—	—	3/27	1	29
Armor	Ricochet	41.0	56.4	62.4	—	—	4/9	1	32
Delta Grow	Delta Grow 8300	40.8	44.5	53.2	—	—	3/19	1	36

Continued.

Table 10 (cont.). Yields of 73 wheat varieties at MAFES Coastal Plain Branch, Newton (Prentiss Very Fine Sandy Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
JGL	Exp 32112	40.7	—	—	—	—	4/2	1	31
Delta Grow	Delta Grow 7900	40.2	49.5	—	—	—	4/4	1	33
Progeny	Progeny 117	38.1	48.9	56.5	—	—	3/19	1	36
JGL	Exp 32113	36.7	—	—	—	—	4/2	1	34
Progeny	Progeny PGX 11-4	35.9	—	—	—	—	4/6	1	34
Progeny	Progeny 185	35.2	—	—	—	—	4/2	1	32
AGS	AGS 2026	35.2	46.8	58.2	—	—	3/19	2	32
Delta Grow	Delta Grow 7500	34.3	53.2	—	—	—	3/31	1	34
Syngenta	Oakes	30.7	35.2	51.2	—	—	3/31	1	31
Mean		34.5							
LSD .1		6.7							
Error df		216							
CV		16.6							
R Sq		78.2							

[1]Planted November 8, 2011 Harvested May 18, 2012 Soil fertility: pH=6.1; P=H; K=H
Fertilizer added: 13-13-13 preplant @ 300 lb/A; N @ 100 lb/A (ammonium nitrate) on February 20, 2012 Previous crop: Wheat
Herbicide: Harmony Extra GT @ 0.6 oz/A on February 22, 2012
[2]See "Procedures" for a description of lodging scores.

Table 11. Yields of 73 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring Silt Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Syngenta	MAGNOLIA	73.8	78.3	69.7	57	39	3/23	4	3/23
Dyna-Gro	Baldwin	68.5	78.6	73.1	58	39	3/23	4	3/23
USG	USG 3120	66.3	81.6	—	56	37	3/12	2	3/23
Dyna-Gro	Dyna-Gro 9171	66.0	83.2	—	52	31	3/29	4	4/11
Terral	TV 8525	64.9	77.6	—	55	39	4/11	5	3/29
USG	USG 3555	63.7	74.5	66.8	55	40	4/11	5	4/11
Syngenta	ARCADIA	63.4	73.1	68.6	56	36	3/12	5	4/11
Progeny	Progeny 870	61.9	—	—	47	30	3/29	5	4/11
USG	USG 3201	60.0	74.8	68.1	53	33	4/11	5	3/29
Dixie	McAlister	59.5	77.8	—	51	29	4/11	4	4/11
Public	LA01110D-150	59.3	79.1	73.6	58	50	3/12	3	3/12
Terral	TV 8535	57.0	69.6	—	55	33	4/11	5	3/23
Syngenta	Coker 9553	57.0	72.6	75.7	58	40	3/23	5	3/23
AGS	AGS 2060	56.7	69.2	68.9	56	38	4/11	5	4/11
Public	VA VA05W-151	56.6	—	—	58	39	3/12	4	3/12
Pioneer	26R87	56.2	71.8	75.5	59	45	3/12	5	3/12
Delta Grow	Delta Grow 7500	56.2	72.1	—	56	34	4/11	5	4/11
Dixie Bell	DB 620	56.1	72.9	—	54	32	3/23	3	4/11
Public	GA 001138-8E36	54.6	70.5	—	55	36	3/23	4	3/16
Progeny	Progeny 308	54.4	—	—	54	34	4/11	4	3/23
Public	LSU LA04110D-7	54.2	—	—	58	40	3/12	4	3/12
AgriMAXX	AgriMAXX 413	54.0	77.9	—	56	37	4/11	5	4/11
HBK	HBK 3266	53.7	69.5	78.5	56	35	3/29	4	3/29
Delta Grow	Delta Grow 8300	53.6	66.3	66.3	56	39	3/12	2	3/12
Progeny	Progeny 125	52.3	71.4	65.9	54	35	3/12	3	3/12
Terral	TV 8861	51.3	71.6	74.2	55	35	4/11	5	4/11
Pioneer	XW10V	50.7	—	—	57	36	4/11	4	4/11
Terral	TV 8848	50.6	75.6	—	53	37	3/29	5	3/16
Public	LSU LA02015E201	49.3	—	—	55	37	3/12	4	3/12
AgriMAXX	AgriMAXX 415	49.3	72.8	—	55	36	4/11	5	3/23
Delta Grow	Delta Grow 8600	49.3	—	—	54	35	4/11	5	3/29
USG	USG 3438	49.2	71.9	73.9	54	33	3/29	5	3/23
AGS	AGS 2035	49.1	70.8	74.4	58	46	3/12	4	3/12
JGL	Exp 32110	47.7	—	—	55	36	3/29	3	4/11

Continued.

Table 11 (continued). Yields of 73 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring Silt Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Armor	Ricochet	47.5	70.5	75.8	54	33	4/11	5	4/11
Public	VA Jamestown	47.2	65.8	66.7	58	36	3/12	5	3/12
JGL	Exp 32112	46.8	—	—	56	35	3/29	2	3/29
Syngenta	Oakes	46.6	57.4	62.3	57	35	3/16	3	3/16
Progeny	Progeny 185	45.7	—	—	56	36	4/11	4	4/11
Pioneer	26R22	45.2	—	—	58	36	3/23	3	3/23
Armor	ARX 1133	44.7	—	—	51	29	4/11	5	4/11
USG	USG 3251	44.2	70.3	—	58	42	3/16	5	3/12
AGS	AGS 2026	44.2	66.7	67.4	56	37	3/12	4	3/12
Armor	ARX 1107	43.5	—	—	52	32	4/11	5	4/11
Armor	ARX 1175	43.4	—	—	51	31	4/11	5	4/11
Pioneer	XW10T	43.4	—	—	56	36	4/11	5	4/11
Progeny	Progeny PGX 11-4	43.2	—	—	50	29	3/23	5	3/23
Public	LSU LA04026D-7	42.4	—	—	55	41	3/12	5	3/12
Dixie Bell	DB 412	42.3	—	—	56	38	4/11	4	3/16
Terral	LA821	41.9	59.9	67.3	56	34	3/12	5	3/12
Pioneer	26R15	41.8	68.4	77.6	54	35	3/23	4	3/23
Dixie Bell	DB 7440	41.1	62.5	65.5	56	36	4/11	3	4/11
Dixie	Kelsey	40.5	66.2	—	54	31	3/16	4	4/11
Terral	LA841	40.5	58.4	72.3	54	37	3/29	5	3/29
Armor	ARX 1109	40.4	—	—	54	32	4/11	5	4/11
Public	UGA GA-021245-9E16	39.4	—	—	55	36	3/12	4	3/12
Pioneer	26R20	39.4	63.7	71.1	55	35	4/11	5	4/11
Syngenta	B050154	38.9	—	—	53	31	3/23	5	3/23
Public	LSU LA02024E12	38.5	—	—	56	38	3/12	4	3/12
USG	USG 3562	38.3	—	—	56	35	4/11	5	4/11
Public	LSU LA02015E58	38.1	—	—	55	34	3/12	4	3/12
JGL	Exp 32113	37.8	—	—	57	40	3/23	3	3/29
Pioneer	Pioneer 26R10	37.6	—	—	56	37	3/29	4	3/12
AgriMAXX	AgriMAXX 424	37.0	—	—	53	35	3/16	4	4/11
Terral	TV 8626	36.0	64.1	—	55	38	3/23	5	4/11
Delta Grow	Delta Grow 7900	35.0	57.1	—	53	33	4/11	5	3/29
Progeny	Progeny 117	34.9	57.9	68.3	55	35	4/11	5	4/11
JGL	Exp 32111	33.6	—	—	58	36	4/11	3	3/29
Progeny	Progeny 357	31.4	—	—	52	33	3/23	5	3/29
Dyna-Gro	Dyna-Gro 9053	31.2	58.7	—	55	33	3/29	4	3/29
Dixie Bell	DB 999	30.1	—	—	54	36	3/29	3	4/11
Dixie	Exp 1112	30.0	—	—	53	35	4/11	5	4/11
Delta Grow	Delta Grow 7300	23.7	—	—	52	31	4/11	5	4/11
Mean		47.6							
LSD .1		6.47							
Error df		216							
CV		11.6							
R sq		82.5							

[1]Planted November 4, 2011 Harvested May 30, 2012 Soil fertility: pH=6.3; P=H; K=H
Fertilizer added: 13-13-13 preplant @ 300 lb/A; N @ 115 lb/A (Ammonia Nitrate) on March 14, 2012 Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 12. Yields of 73 wheat varieties at Reese Pillow Farms, Minter City (Dundee Loam and Tensas Silty Clay Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
JGL	Exp 32112	67.3	—	—	54	28	4/2	1	26
USG	USG 3201	66.6	81.6	80.5	55	32	4/2	1	30
Dixie	Kelsey	65.9	75.9	—	56	34	4/2	1	26
JGL	Exp 32110	65.2	—	—	51	30	4/2	1	27
Pioneer	26R20	61.7	68.2	70.9	57	38	4/2	1	31
AgriMAXX	AgriMAXX 415	61.3	74.7	—	51	34	4/2	1	32
Progeny	Progeny 870	59.3	—	—	51	30	4/2	1	31
Pioneer	XW10V	58.7	—	—	59	35	4/2	1	25
USG	USG 3251	58.3	69.4	—	59	40	3/23	1	25
Terral	TV 8535	58.1	72.8	—	51	32	4/6	1	25
USG	USG 3120	56.4	67.3	—	60	38	4/2	1	30
Dyna-Gro	Dyna-Gro 9171	56.1	69.4	—	56	35	4/2	1	25
Pioneer	26R22	56.0	—	—	60	37	4/2	1	31
Delta Grow	Delta Grow 8600	55.4	—	—	52	31	4/6	1	30
Armor	ARX 1133	54.7	—	—	56	33	4/2	1	29
AgriMAXX	AgriMAXX 413	54.2	72.2	—	58	39	4/2	1	29
Syngenta	Oakes	53.3	62.5	68.3	57	32	4/2	1	29
USG	USG 3562	53.2	—	—	57	31	4/2	1	29
Syngenta	Coker 9553	53.2	61.7	73.7	59	36	3/29	1	26
Terral	TV 8525	52.8	68.1	—	56	37	4/2	1	31
Progeny	Progeny 308	52.8	—	—	51	33	4/6	1	34
Public	GA 001138-8E36	52.4	67.9	—	59	38	4/2	1	27
Pioneer	XW10T	52.4	—	—	58	38	4/2	1	26
Dyna-Gro	Baldwin	52.3	66.9	74.9	59	38	4/6	1	33
AGS	AGS 2060	52.1	69.2	80.4	61	39	4/2	1	28
Terral	TV 8861	51.9	71.4	78.1	58	33	4/2	1	27
Armor	Ricochet	51.6	61.9	70.6	54	34	4/6	1	28
Public	LA01110D-150	51.5	61.6	68.1	57	41	3/26	1	25
Delta Grow	Delta Grow 7500	51.5	66.8	—	58	35	4/2	1	29
USG	USG 3438	51.4	73.7	78.9	52	34	4/6	1	32
Dixie	McAlister	50.9	68.4	—	56	36	4/2	1	29
Armor	ARX 1107	50.9	—	—	55	33	4/2	1	29
Syngenta	B050154	50.5	—	—	54	30	4/2	1	31
AGS	AGS 2035	49.9	58.1	69.6	57	39	3/23	1	28
Pioneer	26R87	49.5	69.4	79.0	59	39	3/29	1	22
Pioneer	26R10	48.7	—	—	55	34	3/26	1	24
HBK	HBK 3266	48.6	59.0	71.0	59	37	3/26	1	29
Public	VA Jamestown	48.2	66.0	72.9	60	32	3/23	1	24
AgriMAXX	AgriMAXX 424	47.9	—	—	54	33	4/2	1	32
Delta Grow	Delta Grow 7900	47.5	59.9	—	50	31	4/6	1	31
Dixie Bell	DB 412	47.4	—	—	54	34	4/2	1	33
Terral	TV 8848	47.3	66.8	—	55	36	4/6	1	30
Public	LSU LA02015E201	46.6	—	—	59	38	3/16	1	26
Pioneer	26R15	45.5	56.6	73.2	56	37	4/6	1	27
Armor	ARX 1109	44.9	—	—	54	33	4/2	1	28
Public	LSU LA02024E12	44.8	—	—	58	40	3/29	1	28
Terral	LA841	44.5	53.0	66.4	57	35	3/26	1	25
Delta Grow	Delta Grow 8300	44.5	51.0	64.6	56	34	3/23	1	29
JGL	Exp 32113	44.2	—	—	58	40	4/2	1	30
Public	LSU LA04026D-7	43.5	—	—	61	42	3/26	1	24
AGS	AGS 2026	41.5	49.7	63.2	56	32	3/26	1	23
Dixie	Exp 1112	41.3	—	—	53	36	4/6	1	34
Delta Grow	Delta Grow 7300	41.1	—	—	52	34	4/2	1	30
Syngenta	MAGNOLIA	41.0	59.0	71.9	55	40	3/29	1	29
Public	VA VA05W-151	40.8	—	—	57	36	4/2	1	29
Public	LSU LA02015E58	40.3	—	—	60	38	3/23	1	25
Terral	LA821	39.7	48.5	62.5	58	35	3/16	1	27
Armor	ARX 1175	38.6	—	—	52	30	4/2	1	30
USG	USG 3555	38.6	53.7	68.4	51	34	3/26	1	26
Dixie Bell	DB 999	38.1	—	—	51	32	4/6	1	27
Dixie Bell	DB 620	37.6	54.9	—	55	31	3/29	1	28
Progeny	Progeny 185	36.6	—	—	57	34	4/2	1	29
Dyna-Gro	Dyna-Gro 9053	36.1	54.2	—	55	31	4/2	1	24
Terral	TV 8626	35.6	54.3	—	57	34	4/2	1	29

Continued.

Table 12 (cont.). Yields of 73 wheat varieties at Reese Pillow Farms, Minter City (Dundee Loam and Tensas Silty Clay Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Progeny	Progeny 125	35.5	49.1	64.5	53	32	3/29	1	25
Progeny	Progeny PGX 11-4	35.0	—	—	48	33	4/2	1	30
Progeny	Progeny 357	34.8	—	—	54	35	4/2	1	26
Public	UGA GA-021245-9E16	34.4	—	—	59	31	3/16	1	23
Syngenta	ARCADIA	34.4	55.7	69.3	55	35	4/2	1	28
Progeny	Progeny 117	29.9	51.7	67.7	55	31	3/9	1	31
JGL	Exp 32111	28.7	—	—	58	34	4/6	1	36
Public	LSU LA04110D-7	27.9	—	—	59	36	3/26	1	22
Dixie Bell	DB7440	27.8	46.5	67.6	51	35	4/2	1	32
Mean		47.5							
LSD .1		8.6							
Error df		216							
CV		15.4							
R Sq		69.7							

[1]Planted November 1, 2011 Harvested May 22, 2012 Soil fertility: pH=5.0; P=H; K=H Previous crop: Wheat
Fertilizer added: DAP (18-46-0) @ 100 lb/A on December 2, 2011; N @ 175 lb/A (40-0-0-5.7S) on February 28, 2012; Urea (46-0-0) @ 150 lb/A on March 16, 2012
[2]See "Procedures" for a description of lodging scores.

Table 13. Yields of 73 wheat varieties at Clifton Farms, Hernando (Collins / Falaya Silt Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Public	GA 001138-8E36	52.4	—	—	—	—	—	1	33
Public	LSU LA02015E58	50.9	—	—	—	—	—	1	29
Terral	LA821	50.1	—	—	—	—	—	1	34
HBK	HBK 3266	48.9	—	—	—	—	—	1	30
Terral	LA841	48.7	—	—	—	—	—	1	31
Public	UGA GA-021245-9E16	48.5	—	—	—	—	—	1	29
Syngenta	ARCADIA	48.3	—	—	—	—	—	1	28
Public	LSU LA04026D-7	48.2	—	—	—	—	—	1	30
Public	LSU LA02024E12	47.6	—	—	—	—	—	1	31
Dyna-Gro	Baldwin	47.1	—	—	—	—	—	1	32
AGS	AGS 2035	44.9	—	—	—	—	—	1	31
Pioneer	26R87	43.8	—	—	—	—	—	1	26
JGL	Exp 32112	42.7	—	—	—	—	—	1	27
Pioneer	26R20	42.6	—	—	—	—	—	1	31
USG	USG 3120	42.5	—	—	—	—	—	1	26
Pioneer	26R15	42.4	—	—	—	—	—	1	27
JGL	Exp 32110	42.0	—	—	—	—	—	1	29
AGS	AGS 2060	41.8	—	—	—	—	—	1	34
Pioneer	XW10T	41.6	—	—	—	—	—	1	26
Public	LA01110D-150	41.4	—	—	—	—	—	1	28
Delta Grow	Delta Grow 8300	40.6	—	—	—	—	—	1	30
Public	LSU LA02015E201	40.5	—	—	—	—	—	1	24
Progeny	Progeny 308	39.3	—	—	—	—	—	1	27
Dixie Bell	DB 620	38.9	—	—	—	—	—	1	30
Pioneer	XW10V	36.8	—	—	—	—	—	1	28
Terral	TV 8848	36.6	—	—	—	—	—	1	31
Progeny	Progeny 870	36.6	—	—	—	—	—	1	29
Armor	Ricochet	36.2	—	—	—	—	—	1	26
Delta Grow	Delta Grow 7500	35.9	—	—	—	—	—	1	28
Syngenta	B050154	35.6	—	—	—	—	—	1	29
Pioneer	26R10	35.1	—	—	—	—	—	1	29
AgriMAXX	AgriMAXX 415	34.9	—	—	—	—	—	1	29
Dixie	Kelsey	34.5	—	—	—	—	—	1	28
Public	VA VA05W-151	34.1	—	—	—	—	—	1	30

Continued.

Table 13 (continued). Yields of 73 wheat varieties at Clifton Farms, Hernando (Collins / Falaya Silt Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Seed weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*			*in*
Dixie Bell	DB 412	34.1	—	—	—	—	—	1	31
AgriMAXX	AgriMAXX 424	34.1	—	—	—	—	—	1	29
USG	USG 3251	33.9	—	—	—	—	—	1	32
Terral	TV 8861	33.8	—	—	—	—	—	1	31
USG	USG 3201	33.6	—	—	—	—	—	1	28
Public	VA Jamestown	33.3	—	—	—	—	—	1	25
AgriMAXX	AgriMAXX 413	33.0	—	—	—	—	—	1	27
Armor	ARX 1109	32.6	—	—	—	—	—	1	29
Dyna-Gro	Dyna-Gro 9171	32.5	—	—	—	—	—	1	26
Armor	ARX 1133	32.4	—	—	—	—	—	1	25
Dixie Bell	DB 999	32.2	—	—	—	—	—	1	26
Terral	TV 8525	32.0	—	—	—	—	—	1	28
Delta Grow	Delta Grow 8600	31.5	—	—	—	—	—	1	28
USG	USG 3555	31.3	—	—	—	—	—	1	24
Terral	TV 8535	31.2	—	—	—	—	—	1	28
Pioneer	26R22	31.1	—	—	—	—	—	1	28
Public	LSU LA04110D-7	30.9	—	—	—	—	—	1	30
USG	USG 3562	30.1	—	—	—	—	—	1	30
Armor	ARX 1175	29.9	—	—	—	—	—	1	26
Dixie	McAlister	29.8	—	—	—	—	—	1	26
Delta Grow	Delta Grow 7300	29.6	—	—	—	—	—	1	30
Syngenta	Coker 9553	29.4	—	—	—	—	—	1	30
Armor	ARX 1107	28.6	—	—	—	—	—	1	30
Syngenta	MAGNOLIA	28.1	—	—	—	—	—	1	28
Dixie	Exp 1112	28.0	—	—	—	—	—	1	29
Progeny	Progeny 357	28.0	—	—	—	—	—	1	31
JGL	Exp 32111	27.9	—	—	—	—	—	1	24
Progeny	Progeny 117	27.6	—	—	—	—	—	1	34
USG	USG 3438	27.6	—	—	—	—	—	1	25
Progeny	Progeny PGX 11-4	26.8	—	—	—	—	—	1	35
Dyna-Gro	Dyna-Gro 9053	26.7	—	—	—	—	—	1	31
Terral	TV 8626	24.9	—	—	—	—	—	1	27
JGL	Exp 32113	23.7	—	—	—	—	—	1	31
Dixie Bell	DB7440	*	—	—	—	—	—	1	29
AGS	AGS 2026	*	—	—	—	—	—	1	28
Syngenta	Oakes	*	—	—	—	—	—	1	27
Progeny	Progeny 125	*	—	—	—	—	—	1	26
Delta Grow	Delta Grow 7900	*	—	—	—	—	—	1	30
Progeny	Progeny 185	*	—	—	—	—	—	1	26
Mean		36.3							
LSD .1		6.8							
Error df		198							
CV		16.1							
R Sq		67.8							

[1]Fertilizer added: 20-30-60 preplant; N @ 70 lb/A (32% N-SOL) on March 5, 2012; N @ 35 lb/A (32% N-SOL) on April 2, 2012; N @ 35 lb/A (32% N-SOL) on April 2, 2012
Herbicide: AXIAL XL @ 16.4 oz/A plus Harmony Extra @ .4 oz/A on March 12, 2012 Previous crop: Soybean
[2]See "Procedures" for a description of lodging scores.
*These plots were damaged so severely by deer feeding that no yields were collected.

Table 14. Average number of wheat seeds per pound.

Brand	Variety	2011-12 average	2-year average	Brand	Variety	2011-12 average	2-year average
		seeds/lb	*seeds/lb*			*seeds/lb*	*seeds/lb*
AgriMAXX	AgriMAXX 424	13070	—	Pioneer	Pioneer XW10V	11411	—
AgriMAXX	AgriMAXX 413	13201	12,713	Progeny	Progeny 125	14116	13570
AgriMAXX	AgriMAXX 415	11859	11217	Progeny	Progeny 117	13533	12688
AGS	AGS 2026	14008	14087	Progeny	Progeny 185	13050	12008
AGS	AGS 2035	10471	10216	Progeny	Progeny 357	11611	—
AGS	AGS 2060	12926	12641	Progeny	Progeny 870	14025	—
Armor	ARX 1107	10752	—	Progeny	Progeny PGX 11-4	11736	—
Armor	ARX 1133	14801	—	Progeny	Progeny 308	12163	—
Armor	ARX 1109	12055	—	Public	LSU LA01110D-150	10517	11047
Armor	ARX 1175	11371	—	Public	LSU LA02015E201	12021	—
Armor	Ricochet	13129	13315	Public	LSU LA02015E58	12230	—
Delta Grow	Delta Grow 7300	12721	—	Public	LSU LA02024E12	12741	—
Delta Grow	Delta Grow 7500	13117	13036	Public	LSU LA04026D-7	11220	—
Delta Grow	Delta Grow 7900	12468	12630	Public	LSU LA04110D-7	11321	—
Delta Grow	Delta Grow 8300	10232	11767	Public	UGA GA-01138-8E36	14039	12626
Delta Grow	Delta Grow 8600	12935	—	Public	UGA GA-021245-9E16	13166	—
Dixie	Exp 1112	11307	—	Public	VA Jamestown	13103	12632
Dixie	Kelsey	11231	10999	Public	VA VA05W-151	13085	—
Dixie	McAllister	13038	12900	Syngenta	Coker 9553	12182	11789
Dixie Bell	DB 412	10487	—	Syngenta	ARCADIA	11432	11614
Dixie Bell	DB 620	11589	11580	Syngenta	B050154	13818	—
Dixie Bell	DB 7440	12788	—	Syngenta	MAGNOLIA	12101	11800
Dixie Bell	DB 999	12704	—	Syngenta	OAKES	13814	13241
Dyna-Gro	Baldwin	11191	10709	Terral	LA 841	12830	12953
Dyna-Gro	Dyna-Gro 9053	10699	10605	Terral	TV 8525	11767	11532
Dyna-Gro	Dyna-Gro 9171	14080	13393	Terral	TV 8535	13318	13904
Hornbeck	HBK 3266	12471	12149	Terral	TV 8848	11274	13418
JGL	Exp 32110	10659	—	Terral	TV 8861	11843	12120
JGL	Exp 32111	12728	—	Terral	LA 821	12882	12989
JGL	Exp 32112	12814	—	Terral	TV 8626	12058	11566
JGL	Exp 32113	11673	—	USG	USG 3120	10930	11011
Pioneer	Pioneer 26R20	12488	12560	USG	USG 3201	11797	11602
Pioneer	Pioneer 26R87	8718	10108	USG	USG 3251	10523	10697
Pioneer	Pioneer 26R10	12172	—	USG	USG 3438	13159	12877
Pioneer	Pioneer 26R15	12181	11921	USG	USG 3555	11548	11318
Pioneer	Pioneer 26R22	12681	11854	USG	USG 3562	12840	—
Pioneer	Pioneer XW10T	10545	—				

Table 15. Average number of oat seeds per pound.

Brand	Variety	2011-12 average	2-year average	Brand	Variety	2011-12 average	2-year average
		seeds/lb	*seeds/lb*			*seeds/lb*	*seeds/lb*
Public	LA05006GSBS-65-S1	14112	14037	Plantation Seed	Horizon 201	11948	—
Public	LA04004SBSB-7-B-S1	13854	—	Plantation Seed	Horizon 270	13071	12882
Public	LA02065SBSBSBSB-88	12849	—				

Table 16. 2012 yield summary of oat variety trials in Mississippi.

Brand	Variety	Brooksville	Newton	Raymond	Stoneville	State avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Plantation Seed	Horizon 270	108.2	51.3	51.4	100.8	77.9
Plantation Seed	Horizon 201	107.8	50.9	55.0	65.5	69.8
Public	LA05006GSBS-65-S1	84.1	61.3	68.9	65.4	69.9
Public	LA04004SBSB-7-B-S1	101.3	41.7	44.8	61.7	62.4
Public	LA02065SBSBSBSB-88	116.9	43.6	46.7	69.5	69.2
Mean		103.6	49.7	53.3	72.6	69.8
LSD .1		15.6	6.3	13.1	13.7	
Error df		12	12	12	12	
CV		11.9	10	19.5	15	
R-sq		62	77	53.9	74.8	

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

Brand	Variety	Brooksville	Newton	Raymond	Stoneville
		bu/A	*bu/A*	*bu/A*	*bu/A*
Plantation Seed	Horizon 270	112.5	84.5	127.5	133.2
Public	LA 05006 GSBS 65-S1	106.0	63.0	140.0	137.2

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

Brand	Variety	Brooksville	Newton	Raymond	Stoneville
		bu/A	*bu/A*	*bu/A*	*bu/A*
Horizon 270	Plantation Seed	75.0	72.0	79.6	106.3

Table 19. Yields of five oat varieties at MAFES Black Belt Branch, Brooksville (Brooksville Silty Clay Loam).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Lodging Score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*
Plantation Seed	Horizon 270	108.2	112.5	75.0	36	1	51
Plantation Seed	Horizon 201	107.8	—	—	37	1	47
Public	LA05006GSBS-65-S1	84.1	106.0	—	38	2	48
Public	LA04004SBSB-7-B-S1	101.3	—	—	37	4	43
Public	LA02065SBSBSBSB-88	116.9	—	—	35	1	49
Mean		103.6					
LSD .1		15.6					
Error df		12					
CV		11.9					
R-sq		62					

[1]Planted November 8, 2011 Harvested May 22, 2012 Soil fertility: pH=6.2; P=M; K=M
Fertilizer added: 13-13-13 preplant @ 300 lb/A N @ 80 lb/A (32% N-Sol) Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 20 Yields of five oat varieties at MAFES Coastal Plain Branch, Newton (Prentiss Very Fine Sandy Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Lodging Score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*
Plantation Seed	Horizon 270	51.3	84.5	72.0	32	1	44
Plantation Seed	Horizon 201	50.9	—	—	32	2	58
Public	LA05006GSBS-65-S1	61.3	63.0	—	33	1	45
Public	LA04004SBSB-7-B-S1	41.7	—	—	35	2	48
Public	LA02065SBSBSBSB-88	43.6	—	—	32	1	47
Mean		49.7					
LSD .1		6.3					
Error df		12					
CV		10					
R-sq		77					

[1]Planted November 8, 2011 Harvested May 18, 2012 Soil fertility: pH=6.1; P=H; K=H
Fertilizer added: N @ 80 lb/A (ammonium nitrate) on February 20, 2012 Previous crop: Wheat
Herbicide: Harmony Extra GT @ 0.6 oz/A on February 22, 2012
[2]See "Procedures" for a description of lodging scores.

Table 21. Yields of five oat varieties at MAFES Brown Loam Branch, Raymond (Loring Silt Loam Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Lodging Score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*
Plantation Seed	Horizon 270	51.4	127.5	79.6	34	3	40
Plantation Seed	Horizon 201	55.0	—	—	33	3	51
Public	LA05006GSBS-65-S1	68.9	140.0	—	31	3	46
Public	LA04004SBSB-7-B-S1	44.8	—	—	34	3	44
Public	LA02065SBSBSBSB-88	46.7	—	—	32	2	47
Mean		53.3					
LSD .1		13.1					
Error df		12					
CV		19.5					
R-sq		53.9					

[1]Planted November 4, 2011 Harvested May 30, 2012 Soil fertility: pH=6.3; P=H; K=H
Fertilizer added: 13-13-13 preplant @ 300 lb/A N @ 115 lb/A (ammonia nitrate) on March 14, 2012 Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 22. Yields of five oat varieties at MAFES Delta Branch, Stoneville (Tunica Silty Clay Soil).[1]

Brand	Variety	2011-12 yield	2-year avg.	3-year avg.	Test weight	Lodging Score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*
Plantation Seed	Horizon 270	100.8	133.2	106.3	35	2	48
Plantation Seed	Horizon 201	65.5	—	—	35	3	48
Public	LA05006GSBS-65-S1	65.4	137.2	—	36	3	48
Public	LA04004SBSB-7-B-S1	61.7	—	—	38	3	47
Public	LA02065SBSBSBSB-88	69.5	—	—	35	3	46
Mean		72.6					
LSD .1		13.7					
Error df		12					
CV		15					
R-sq		74.8					

[1]Planted November 7, 2011 Harvested May 29, 2012 Soil fertility: pH=6.3; P=M; K=M
Fertilizer added: N @ 101 lb/A (46-0-0) on February 28, 2012 Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Interpretation of Disease Reaction Values

Six locations were evaluated for the presence of foliar and stem diseases. Data are presented in the table as an average or mean of the four replications for each variety for each location. Plant pathologists use a visual rating scale (*James' Manual of Assessment of Plant Diseases*) that has templates for us to go by when making these ratings. Leaf rust and stripe rust have diagrammatic representations of the amount of leaf area affected by each disease. We then utilize these pictorial guides to help us in making visual assessments of how much of the flag leaf of a wheat plant is showing symptoms or rust pustule or fungal/bacterial lesion development. Values can range from 0% (no symptoms present) up to about 50% (most of the leaf is diseased). The grower must keep in mind the factors contributing to the amount of disease present at a particular location and on a certain variety. These factors include stage of plant growth, rainfall amounts, humidity, temperature, inoculum or spore load, varietal susceptibility, and a host of other environmental/varietal interactions that coincide with disease incidence (the percentage of plants with symptoms) and severity (the amount of leaf area affected on those plants).

Our ratings reflect mainly the severity of infection within an entire plot. So when a value of 15% occurs in the table for a particular variety, we mean that most of the plants in that plot have similar levels of symptom development. You will notice great variation from one location to another because of the factors contributing to disease development at that particular location. One variety may be severely affected in one year and less affected in the next year, depending on these factors. We do not attempt in this publication to place arbitrary values on what makes a variety resistant, moderately susceptible, susceptible or very susceptible. In addition, keep in mind that the main race of a particular pathogen (either leaf, stem, or stripe rust) may vary by location, as well as between years.

The grower needs to look at several years in the past for a particular variety he is interested in growing and look at the numbers over those years. Generally, disease severity values of from 0–5% would be considered resistant varieties or at least highly tolerant to foliar diseases. Values from 5–10% would be considered moderately susceptible. Values from 10–15% would be considered susceptible, and any variety with consistent severity ratings above 15% — especially around 25% — should be considered highly susceptible. These values, however, are just for generalizing the disease reaction of a variety and should not be thought of as set in stone. These values can and will vary for that variety from year to year.

Growers should pay attention to the varietal disease reactions over several years and base their preference for a particular variety on a running average along with yield potential and their own farm history of foliar wheat diseases. Variety trials are conducted without any fungicide applications to allow for assessment of varietal performance based only on environmental growing conditions and varietal genetics. We suggest that you contact your small-grain specialist or county agent to help in making variety decisions on your farm.

Table 23. Rust ratings from six locations of wheat variety trials in Mississippi.

Brand	Variety	Brooksville		Issaquena		Minter City			Newton		Cleveland		Stoneville	
		Leaf	Stripe	Leaf	Stripe	Leaf	Stem	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe
AgriMAXX	AgriMAXX 413	2.0	0.0	7.7	0.0	28.7	0.0	0.0	1.5	0.0	25.0	0.0	2.2	0.0
AgriMAXX	AgriMAXX 415	2.7	0.0	13.7	0.0	27.5	0.0	0.0	2.5	0.0	23.7	0.0	1.2	0.0
AgriMAXX	AgriMAXX 424	10.7	0.0	14.2	0.0	33.7	0.0	0.0	3.7	0.0	27.5	0.0	6.5	0.0
AGS	AGS2026	2.25	0.0	4.5	0.0	15.0	0.0	0.0	0.0	0.0	3.5	0.0	1.7	0.0
AGS	AGS2035	1.0	0.0	0.2	11.7	0.7	0.0	26.2	0.2	0.2	0.2	7.5	0.0	3.0
AGS	AGS2060	0.5	0.0	0.0	0.2	0.0	0.0	17.5	0.2	0.2	0.7	0.0	0.0	0.0
Armor	ARX1107	4.7	0.0	31.2	0.0	27.5	3.2	7.5	18.7	0.2	36.2	0.0	21.2	0.0
Armor	ARX1109	10.0	0.7	30.0	0.0	36.2	0.0	0.0	8.5	0.7	27.5	5.0	3.5	8.2
Armor	ARX1133	3.5	0.0	12.0	0.0	25.0	0.0	0.0	2.2	0.7	31.2	0.0	1.2	0.0
Armor	ARX1175	5.7	0.0	18.7	0.0	33.7	0.0	11.2	3.0	0.5	31.2	0.0	3.0	2.5
Armor	Ricochet	1.2	0.0	1.7	0.0	25.0	0.0	0.0	1.0	0.2	12.2	0.0	0.7	0.0
DeltaGrow	7300	3.7	0.5	10.5	0.0	37.5	0.0	0.0	8.2	4.2	37.5	0.0	16.2	0.0

Continued.

Table 23 (continued). Rust ratings from six locations of wheat variety trials in Mississippi.

Brand	Variety	Brooksville		Issaquena		Minter City			Newton		Cleveland		Stoneville	
		Leaf	Stripe	Leaf	Stripe	Leaf	Stem	Stripe	Leaf	Stripe	Leaf	Stripe	Leaf	Stripe
DeltaGrow	7500	2.2	0.0	11.5	0.0	35.0	0.0	0.0	2.0	0.7	27.5	0.0	0.7	0.0
DeltaGrow	7900	2.2	0.0	2.5	0.0	32.5	0.0	0.0	1.0	0.0	31.2	0.0	3.5	0.0
DeltaGrow	8300	3.2	0.0	2.7	0.0	19.2	0.0	0.5	2.0	1.5	1.0	0.0	1.0	0.0
DeltaGrow	8600	8.5	0.0	19.0	0.0	38.7	0.0	0.0	5.7	0.0	42.5	0.0	12.0	0.0
Dixie	Exp 1112	3.5	0.5	16.2	0.0	40.0	0.0	0.0	2.5	0.2	35.0	0.0	5.0	0.0
Dixie	Kelsey	4.0	0.2	7.5	0.0	20.0	0.0	0.0	1.7	0.2	16.2	0.0	2.0	0.0
Dixie	McAlister	2.7	0.0	4.0	0.0	25.0	0.0	0.0	1.5	0.0	30.0	0.0	1.0	0.0
Dixie Bell	DB412	4.7	0.0	2.0	0.0	37.5	0.0	0.0	1.0	0.7	32.5	0.0	3.0	0.0
Dixie Bell	DB620	1.5	0.0	10.0	0.0	33.7	0.0	0.0	1.5	0.2	37.5	0.0	9.0	0.0
Dixie Bell	DB7440	4.7	4.5	1.0	20.0	0.0	0.0	30.0	0.7	0.5	5.7	12.5	0.5	13.7
Dixie Bell	DB999	20.2	0.0	15.5	0.0	41.2	0.0	0.0	6.0	0.7	32.5	0.0	4.2	0.0
Dyna-Gro	9053	2.0	0.0	15.7	0.0	21.2	0.0	23.7	4.7	0.7	41.2	0.0	27.0	0.0
Dyna-Gro	9171	2.5	0.0	14.0	0.0	40.0	0.0	0.0	1.5	0.2	21.2	0.0	1.7	0.0
Dyna-Gro	Baldwin	0.5	0.0	0.5	3.0	0.0	0.0	36.2	0.0	0.2	0.7	7.2	0.0	0.0
Hornbeck	HBK 3266	4.0	0.0	0.0	26.2	0.0	0.0	27.5	0.0	0.5	0.0	7.5	0.0	3.7
JGL	Exp32110	2.5	0.0	1.5	1.2	15.2	0.0	11.2	1.0	0.2	5.2	0.0	2.0	1.2
JGL	Exp32111	10.2	1.5	26.2	0.0	20.7	0.0	0.0	6.5	1.2	28.7	0.0	6.2	3.0
JGL	Exp32112	0.5	0.7	0.7	0.0	2.0	0.0	11.2	1.0	0.2	1.2	2.5	0.5	0.5
JGL	Exp32113	6.0	0.0	15.2	0.0	32.5	0.0	0.0	4.5	0.0	42.5	0.0	10.0	0.0
Pioneer	26R10	2.5	0.0	18.0	0.0	42.5	0.0	0.0	4.2	1.2	13.5	0.0	2.7	0.0
Pioneer	26R15	2.2	0.0	4.5	0.0	32.5	0.0	0.0	2.0	0.7	8.0	4.7	0.7	0.0
Pioneer	26R20	1.0	0.0	2.5	0.0	27.5	0.2	0.0	1.0	0.0	6.2	0.0	0.7	0.0
Pioneer	26R22	9.7	0.0	1.5	3.7	5.7	0.0	33.7	0.7	0.0	11.2	0.0	1.0	5.2
Pioneer	26R87	4.0	0.0	4.0	0.0	25.0	0.0	0.0	0.2	0.0	36.2	0.0	0.2	0.0
Pioneer	XW10T	4.2	0.0	2.7	0.0	20.0	0.0	0.0	1.0	0.2	9.2	0.0	1.2	0.0
Pioneer	XW10V	4.2	0.0	4.5	0.0	27.5	0.0	0.0	1.5	0.2	23.7	0.0	1.5	0.0
Progeny	Progeny 117	10.7	4.2	13.0	11.2	8.7	0.0	33.7	5.2	1.7	12.5	16.2	1.5	11.7
Progeny	Progeny 125	8.5	0.0	12.5	0.0	37.5	0.0	0.0	3.5	0.2	10.2	10.0	4.7	0.0
Progeny	Progeny 185	4.0	3.7	5.5	0.0	23.7	0.0	37.5	2.5	1.2	11.7	10.0	3.7	6.2
Progeny	Progeny 357	5.7	0.7	7.2	0.0	21.2	0.0	21.2	3.0	1.5	25.0	12.5	16.0	0.0
Progeny	Progeny 870	4.7	0.0	13.0	0.0	23.7	0.0	15.0	2.5	0.2	22.5	7.5	1.0	0.0
Progeny	Progeny PGX11-4	12.5	0.0	21.25	0.0	40.0	0.0	0.0	4.7	1.2	31.5	11.25	16.7	0.0
Progeny	Progeny 308	3.5	0.0	10.2	0.0	37.5	0.0	0.0	2.5	0.7	23.7	11.25	2.2	0.5
Public	GA 001138-8E36	1.0	0.0	0.2	0.7	0.0	0.0	6.2	0.0	0.2	1.5	0.0	0.0	0.0
Public	GA-021245-9E16	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.2	0.0	0.0
Public	Jamestown	4.2	0.0	11.2	0.0	22.5	0.0	1.0	1.2	0.2	8.0	0.0	1.2	0.0
Public	LA01110D-150	1.5	0.2	1.5	3.7	0.0	0.0	0.5	0.7	0.5	0.2	2.5	0.5	0.7
Public	LA02015E201	5.7	0.0	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Public	LA02015E58	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Public	LA02024E12	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Public	LA04026D-7	2.2	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0
Public	LA04110D-7	2.5	0.0	0.2	16.2	0.7	0.0	23.7	0.5	0.2	1.0	15.0	0.0	7.7
Public	VA05W-151	0.2	0.7	0.0	22.7	0.0	0.0	40.0	0.2	0.2	1.7	18.0	0.2	13.0
Syngenta	ARCADIA	1.5	0.0	0.0	17.5	0.0	0.0	32.5	0.2	0.0	1.2	14.0	0.0	8.7
Syngenta	B050154	3.7	0.0	8.7	0.0	40.0	0.0	0.0	1.0	0.5	33.7	0.0	5.0	0.0
Syngenta	Coker 9553	4.0	0.0	12.0	0.0	22.5	0.0	31.2	1.7	0.0	11.2	10.0	1.2	0.0
Syngenta	MAGNOLIA	6.2	0.5	23.7	0.0	37.5	0.0	0.0	3.2	0.0	22.5	2.5	4.7	0.0
Syngenta	Oakes	4.2	0.2	6.0	0.0	31.2	0.0	0.0	2.2	0.0	6.7	0.0	1.5	0.5
Terral	LA821	3.0	0.0	0.2	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Terral	LA841	16.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Terral	TV8525	1.0	0.2	11.5	0.2	36.2	0.0	0.0	2.0	0.2	32.5	0.0	5.0	0.0
Terral	TV8535	3.5	0.0	2.7	0.0	36.2	0.0	4.5	1.0	0.2	23.7	0.0	1.0	0.0
Terral	TV8626	2.2	0.0	15.0	0.0	41.2	0.0	10.0	2.5	0.0	45.0	0.0	16.2	2.5
Terral	TV8848	1.5	0.0	13.7	0.0	33.7	0.0	0.0	2.0	0.7	37.5	7.5	4.5	0.0
Terral	TV8861	1.7	0.0	11.2	0.0	31.2	0.0	0.0	2.5	0.2	33.7	0.0	4.2	0.0
USG	3120	2.5	0.0	5.0	0.2	1.2	0.0	21.2	2.0	0.5	4.7	3.0	0.2	0.7
USG	3201	4.0	0.0	8.5	0.0	25.0	0.0	7.5	2.5	0.0	15.2	0.0	1.5	0.0
USG	3251	2.5	0.0	3.7	0.0	33.7	0.0	0.0	1.0	0.2	37.5	0.0	2.5	5.2
USG	3438	3.2	0.0	10.7	0.0	35.0	0.0	0.0	1.0	0.5	35.0	0.0	1.2	0.0
USG	3555	8.7	0.0	7.0	0.0	32.5	0.0	0.0	0.5	0.0	11.5	0.0	0.7	0.0
USG	3562	6.2	1.0	32.5	0.0	41.2	0.0	0.0	6.0	0.0	43.7	0.0	7.2	0.0

Technical Advisory Committee

Barton Fogleman
Cereal Grains Breeder
Syngenta

David Ingram, Chairman
Plant Pathologist
Central Mississippi Research and Extension Center
Raymond, Mississippi

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

Don Respess
County Extension Director III
Coahoma County

Dennis Rowe
Research Professor
Experimental Statistics
Mississippi State University

Keith Daniels
Superintendent
MAFES Research Centers
Mississippi State University

Printed on Recycled Paper