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Mississippi WHEAT & OAT

VARIETY TRIALS, 2011

MAFES

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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, 2011

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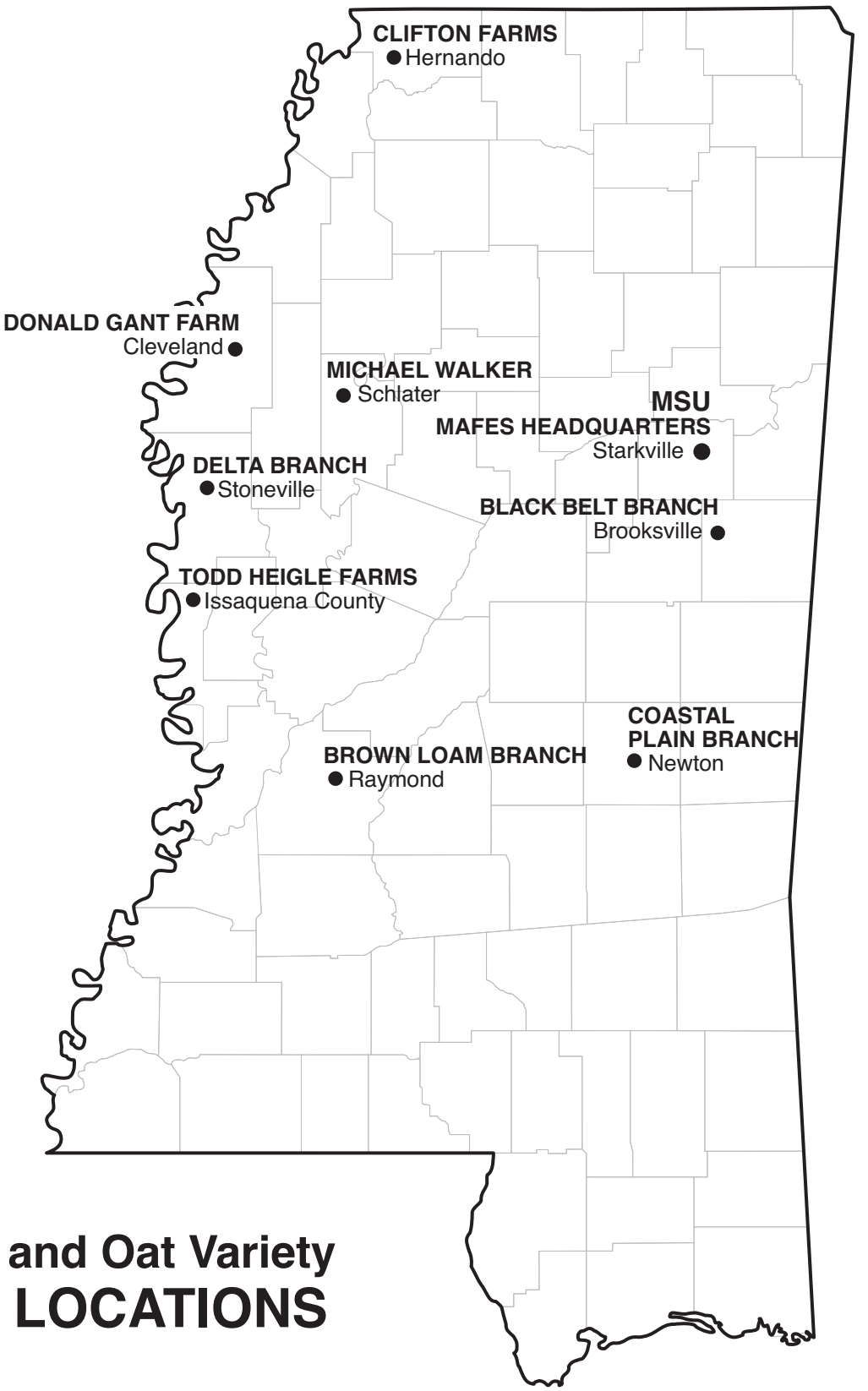

Wheat and Oat Variety
TEST LOCATIONS

Mississippi Wheat and Oat Variety Trials, 2011

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 2010–2011. 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 — The 2010-11 wheat and oat variety trial was planted into a conventionally prepared seedbed. Heavy rains after planting resulted in reduced plant populations in some of the plots. Favorable weather conditions throughout the remainder of the season, in combination with a timely fertilizer application, resulted in adequate tillering. Bird damage to the crop was slight.

Hernando — Wheat plots were planted no-till into soybean stubble after the previous crop. Conditions were favorable at planting, and all plots germinated and quickly emerged to a good stand. Weather conditions throughout the winter and spring were very encouraging for good yield potential. Plots were harvested in a timely manner, and good yields were observed.

Newton — The test was planted in a timely manner into a conventionally prepared seedbed under good growing conditions. It germinated quickly and emerged to an adequate stand. A dry spring resulted in very little disease pressure. The weather conditions during late spring resulted in an early harvest. Slight damage to some plots occurred due to deer predation.

Raymond — Wheat and oat plots were planted into a well-prepared seedbed under optimum conditions for good germination. All plots quickly emerged to a good stand. Favorable weather throughout winter and spring resulted in excellent growing conditions. Warm, dry weather in mid-May resulted in an early harvest. Excellent 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 growing season. 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. Good yields were achieved.

Issaquena County — The 2010-11 wheat plots were planted into a well-prepared seedbed following corn. The winter and early-spring growing season had no adverse cold or wet weather. The late spring from mid-April to harvest was exceptionally dry. A small portion of the test was affected by seep water from the Mississippi River flooding that occurred in spring 2011.

Schlater — The test was planted in late October into a good, well-drained seedbed with adequate moisture. All the wheat plots emerged to a good stand. Winter and spring weather was excellent for good yield potential. Insect, disease and weed pressure was minimal. After completion of a timely harvest, excellent yields were observed.

Stoneville — Wheat and oat plots were planted in early November into a freshly prepared seedbed. Conditions were favorable at planting for optimum germination. All plots quickly emerged to a good stand. The weather was most favorable throughout the growing season for wheat production. As a result, good yields were achieved.

Disease Rating Statement

All varieties were rated for development of leaf rust, stripe rust, Septoria leaf blotch, and Stagonospora glume blotch (when present) according to *James' Manual of Assessment Keys for Plant Diseases*. At growth stage 10.5 (spikes emerged), a visual assessment of the percentage of leaf area affected by each disease in a plot was recorded.

Data were subjected to Analysis of Variance and means separated by the Least Significant Difference Test (LSD) at a probability of P=0.05. In 2011, three locations were rated: Raymond, Newton, and Stoneville. No diseases were observed at the Stoneville location. Leaf rust and Septoria leaf blotch were observed at very low levels at Raymond.

At Newton, most varieties were infected with low levels of Septoria leaf blotch; just a few varieties had infected leaf areas greater than 10%. Four varieties at Newton and their corresponding levels of leaf infection were: Va Jamestown, 10%; LA01110D-150, 11.3%; TerralLA821, 11.3%; and GA 00067-8E35, 17.5%.

In past years, a predetermined scale was used to indicate level of susceptibility among varieties. Depending on the amount of leaf area affected by a particular disease, those varieties were placed into categories of susceptibility and resistance. Generally, varieties with levels of leaf infection under 10% are considered resistant or moderately resistant. Plant pathologists consider infected leaf areas greater than 10% to be potentially detrimental to plant health and could result in a yield decrease. Keep in mind that variety response to disease may vary greatly from year to year, and these responses should be evaluated over several years when making decisions on variety selection.

Table 1. Companies supplying wheat brands/varieties entered.

AgriMAXX Wheat Company 7167 Highbanks Road Mascoutah, IL 62258	AgriMAXX 413 AgriMAXX 415	
AgSouth Genetics P.O. Box 72246 Albany, GA 31708	AGS 2035 AGS 2060 AGS 2026	
Armor Seed, LLC 2528 Alexander Dr. Jonesboro, AR 72401	Delta King 9577 Armor Ricochet	Armor ARX 0179 Armor ARX 0186
B&S Seed Co., Inc. 1283 Hwy. 444 Duncan, MS 38740	Dixie Bell DB 2125 Dixie Bell DB 2150	Dixie Bell DB 7100 Dixie Bell DB 7400
Cache River Valley Seed P.O. Box 10 Cash, AR 72421	Dixie 454 Dixie McAlister Dixie Kelsey	
Delta Grow Seed P.O. Box 219 England, AR 72406	Delta Grow DG 1600 Delta Grow DG 7500	Delta Grow DG 7900 Delta Grow DG 8300
University of Georgia UGA-CAES-Griffin Campus 1109 Experiment St. Griffin, GA 30223	UGA GA 00067-8E35 UGA GA 001138-8E36	
Dyna-Gro Seed 6221 Riverside Drive, Suite One Dublin, OH 43017	Dyna-Gro Baldwin Dyna-Gro 9053	Dyna-Gro 9171
Hornbeck Seed Company P.O. Box 472 DeWitt, AR 72042	Hornbeck HBK 3266	
Louisiana State University SPESS 221 M.B. Sturgis Hall Baton Rouge, LA 70803	LSU LA01069D-23-4-4 LSU LA01110D-150 LSU LA02006E239	
Pioneer Hi-Bred Intl. 700 Blvd. South SW, Suite 302 Huntsville, AL 35802	Pioneer 26R15 Pioneer 26R20 Pioneer 26R22	Pioneer 26R87 Pioneer XW09H
Progeny Ag Products 1529 Hwy. 193 Wynne, AR 72396	Progeny 117 Progeny 166 Progeny 185 Progeny 125	Progeny PGX10-2 Progeny PGX10-5 Progeny PGX10-7
Syngenta Seeds 778 CR 680 Bay, AR 72396	Syngenta BERETTA Syngenta ARCADIA Syngenta COKER 9553	Syngenta MAGNOLIA Syngenta OAKES
Terral Seed Inc. P.O. Box 826 Lake Providence, LA 71254	Terral LA841 Terral TV8558 Terral TV8589 Terral LA821 Terral TV8861	Terral TVX8460 Terral TVX8535 Terral TVX8626 Terral TVX8525 Terral TVX8848
UniSouth Genetics, Inc. 2640-C Nolensville Rd. Nashville, TN 37211	USG 3555 USG 3295 USG 3201 USG 3251	USG 3438 USG 3120 USG 3345
E. Virginia Ag. Res. & Ext. Center 2229 Menokin Road Warsaw, VA 22572	VA Jamestown VA Merl VA VA05W-139	

Table 2. Companies supplying oat brands/varieties entered.

Louisiana State University SPESS 221 M.B. Sturgis Hall Baton Rouge, LA 70803	LSU LA 05006 GSBS 65-S1 LSU LA 03063-SBS-BSB-54 LSU FL 0522-FLID-B-S-BS-92-S1
Plantation Seed P.O. Box 398 Newton, GA 39870	Horizon 270

Table 3. 2011 yield summary of wheat variety trials in Mississippi.

Brand	Variety	Brooks-ville	Hern-ando	North avg.	Newton	Ray-mond	South avg.	Cleve-land	Issaquena County	Schlater	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*	*bu/A*
AgriMaxx	Agri Maxx 413	71.9	76.2	74.0	79.0	101.9	90.4	70.0	105.0	90.1	83.3	87.1	84.7
AgriMaxx	Agri Maxx 415	74.6	75.3	74.9	67.7	96.3	82.0	73.9	100.9	88.2	83.8	86.7	82.6
AGS	AGS 2026	64.0	49.3	56.6	58.4	89.3	73.8	70.6	59.5	58.0	76.5	66.2	65.7
AGS	AGS 2035	64.6	72.1	68.4	67.6	92.6	80.1	74.1	81.9	66.4	86.7	77.3	75.8
AGS	AGS 2060	57.0	78.0	67.5	68.7	81.7	75.2	71.8	80.6	86.3	78.1	79.2	75.3
Armor	Ricochet	64.2	72.9	68.6	71.9	93.4	82.6	73.5	105.0	72.2	87.2	84.5	80.0
Armor	ARX 0179	57.0	54.7	55.9	53.9	77.1	65.5	68.4	64.6	69.9	76.4	69.8	65.3
Armor	ARX 0186	71.5	66.2	68.9	74.3	95.2	84.8	65.8	103.5	91.1	81.2	85.4	81.1
Delta Grow	Delta Grow 1600	48.4	74.0	61.2	40.5	69.8	55.1	72.1	75.7	58.2	71.0	69.3	63.7
Delta Grow	Delta Grow 7500	71.7	73.3	72.5	72.2	88.0	80.1	73.5	98.2	82.2	81.6	83.9	80.1
Delta Grow	Delta Grow 7900	61.0	62.1	61.6	58.9	79.2	69.1	65.3	71.6	72.3	73.0	70.6	67.9
Delta Grow	Delta Grow 8300	45.3	66.5	55.9	48.2	79.0	63.6	68.6	83.4	57.6	79.1	72.2	66.0
Delta King	DK 9577	49.3	71.6	60.5	46.2	83.3	64.7	72.1	93.1	69.6	70.0	76.2	69.4
Dixie	Dixie 454	46.9	69.8	58.3	63.3	73.1	68.2	70.1	95.3	73.2	65.5	76.0	69.7
Dixie	Kelsey	68.7	78.8	73.7	70.3	91.9	81.1	76.7	99.3	85.9	76.4	84.6	81.0
Dixie	McAlister	71.9	63.9	67.9	79.3	96.1	87.7	72.0	100.7	85.9	92.2	87.7	82.8
Dixie Bell	DB 2125	47.2	65.3	56.3	31.7	76.6	54.2	68.4	84.5	69.4	68.7	72.7	64.0
Dixie Bell	DB 7100	39.3	64.5	51.9	61.4	64.3	62.9	74.6	71.7	66.0	70.9	70.8	64.1
Dixie Bell	DB2150	53.8	63.6	58.7	40.2	96.3	68.3	70.8	87.3	71.8	69.2	74.8	69.1
Dixie Bell	DB7440	41.0	67.5	54.3	34.5	83.9	59.2	65.7	87.1	65.3	65.9	71.0	63.9
Dixie Bell	Dixie Bell 620	71.7	71.6	71.6	64.2	89.7	77.0	70.9	108.6	72.2	83.5	83.8	79.0
Dyna-Gro	Baldwin	55.4	62.2	58.8	58.9	88.7	73.8	73.0	109.1	81.5	82.5	86.5	76.4
Dyna-Gro	Dyna-Gro 9053	59.5	76.0	67.7	63.4	86.1	74.8	69.9	102.8	72.2	83.0	82.0	76.6
Dyna-Gro	Dyna-Grow 9171	73.9	76.7	75.3	64.1	100.5	82.3	74.5	99.4	82.8	80.5	84.3	81.6
HBK	HBK 3266	58.5	81.9	70.2	63.5	85.3	74.4	76.6	61.3	69.5	82.0	72.4	72.3
Pioneer	Pioneer 26R15	62.2	70.0	66.1	69.4	95.0	82.2	72.3	76.4	67.7	85.0	75.3	74.7
Pioneer	Pioneer 26R20	53.4	73.1	63.2	72.3	88.1	80.2	63.4	84.7	74.6	83.2	76.5	74.1
Pioneer	Pioneer 26R22	67.6	75.6	71.6	66.8	103.1	85.0	68.6	75.9	71.1	88.6	76.1	77.2
Pioneer	Pioneer 26R87	70.7	65.6	68.1	74.2	87.4	80.8	66.3	73.7	89.3	87.7	79.3	76.9
Pioneer	Pioneer XW09H	70.5	72.5	71.5	83.2	94.1	88.7	75.9	111.2	64.6	83.5	83.8	81.9
Progeny	Progeny 117	65.6	66.8	66.2	59.6	81.0	70.3	67.4	75.6	73.4	74.2	72.6	70.4
Progeny	Progeny 125	56.7	58.1	57.4	44.7	90.5	67.6	71.1	75.5	62.7	71.7	70.2	66.4
Progeny	Progeny 166	45.8	75.1	60.4	59.0	83.9	71.4	74.4	78.4	72.6	68.0	73.3	69.6
Progeny	Progeny 185	56.3	51.7	54.0	56.3	84.3	70.3	71.1	78.2	73.6	73.0	74.0	68.0
Progeny	Progeny PGX10-13	33.3	74.0	53.6	43.4	72.3	57.9	69.1	78.1	70.1	78.0	73.8	64.8
Progeny	Progeny PGX10-18	60.4	58.6	59.5	50.8	92.9	71.8	69.5	96.4	91.6	79.2	84.2	74.9
Progeny	Progeny PGX10-2	49.1	64.9	57.0	62.8	77.8	70.3	73.7	68.3	56.2	77.6	68.9	66.3
Progeny	Progeny PGX10-24	56.7	77.0	66.9	54.8	87.4	71.1	74.6	84.8	91.6	73.4	81.1	75.0
Progeny	Progeny PGX10-5	71.3	78.3	74.8	75.9	84.3	80.1	72.4	109.6	91.7	84.6	89.6	83.5
Progeny	Progeny PGX10-7	63.6	79.1	71.4	72.9	93.1	83.0	75.1	112.8	68.0	88.5	86.1	81.7
Public	GA 00067-8E35	55.6	78.0	66.8	55.4	73.8	64.6	69.4	85.7	77.5	77.5	77.5	71.6
Public	GA 001138-8E36	51.6	73.3	62.4	72.3	86.3	79.3	74.6	87.3	83.4	74.3	79.9	75.4
Public	LA01069D-23-4-4	53.8	62.1	58.0	67.8	89.3	78.6	71.5	80.4	67.4	71.2	72.6	70.4
Public	LA01110D-150	67.9	67.5	67.7	73.6	98.9	86.2	65.4	98.3	71.6	76.9	78.1	77.5
Public	LA02006E239	55.9	58.7	57.3	61.4	81.1	71.3	71.3	85.6	68.7	77.2	75.7	70.0
Public	VA Jamestown	69.2	64.4	66.8	63.8	84.3	74.1	62.9	105.6	83.8	78.5	82.7	76.6
Public	VA Merl	57.6	56.0	56.8	55.4	78.9	67.2	72.4	103.7	77.7	68.8	80.6	71.3
Public	VA05W-139	42.1	76.0	59.1	53.6	83.9	68.8	73.1	105.6	69.6	71.6	80.0	72.0
Syngenta	BERETTA	44.0	70.1	57.1	38.5	88.2	63.3	63.5	86.0	67.1	75.3	73.0	66.6

Continued.

Table 3 (continued). 2011 yield summary of wheat variety trials in Mississippi.

Brand	Variety	Brooks-ville	Hern-ando	North avg.	Newton	Ray-mond	South avg.	Cleve-land	Issaquena County	Schlater	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*	*bu/A*
Syngenta	Coker 9553	58.6	70.0	64.3	62.6	88.3	75.4	73.8	83.9	70.3	77.0	76.2	73.0
Syngenta	ARCADIA	67.0	56.1	61.6	60.6	82.8	71.7	77.5	85.9	77.0	70.8	77.8	72.2
Syngenta	MAGNOLIA	64.1	66.2	65.2	53.8	82.8	68.3	70.6	85.8	77.0	73.1	76.7	71.7
Syngenta	Oakes	52.6	57.8	55.2	39.7	68.3	54.0	77.7	87.4	71.7	61.1	74.5	64.5
Terral	Terral LA821	53.1	60.2	56.6	60.0	78.0	69.0	68.4	56.6	57.3	81.2	65.9	64.3
Terral	Terral LA841	54.3	60.2	57.2	55.5	76.3	65.9	72.5	70.2	61.5	73.2	69.4	65.5
Terral	Terral TV8558	45.0	73.6	59.3	44.9	61.8	53.4	74.9	74.6	58.4	75.5	70.8	63.6
Terral	Terral TV8589	44.4	73.1	58.7	46.5	88.4	67.5	74.0	80.6	68.2	72.0	73.7	68.4
Terral	Terral TV8861	68.2	67.1	67.7	79.7	91.8	85.7	74.4	92.6	90.9	90.0	87.0	81.8
Terral	TVX8460	32.9	56.9	44.9	33.0	82.3	57.7	71.6	74.9	58.8	66.7	68.0	59.6
Terral	TVX8525	63.9	71.3	67.6	69.1	90.2	79.6	72.5	100.0	83.3	84.1	85.0	79.3
Terral	TVX8535	61.2	80.1	70.6	69.5	82.2	75.9	72.6	93.1	87.5	83.6	84.2	78.7
Terral	TVX8626	62.4	75.8	69.1	75.2	92.2	83.7	62.8	98.8	73.1	81.8	79.1	77.8
Terral	TVX8848	77.8	76.0	76.9	76.4	100.5	88.5	72.8	89.0	86.4	87.7	84.0	83.3
USG	USG 3120	68.7	59.0	63.8	72.5	96.9	84.7	67.2	91.4	78.3	90.3	81.8	78.0
USG	USG 3201	66.0	72.7	69.3	69.4	89.6	79.5	71.1	93.0	96.5	83.3	86.0	80.2
USG	USG 3251	71.6	71.1	71.4	77.0	96.4	86.7	66.0	103.7	80.4	77.7	81.9	80.5
USG	USG 3295	61.7	65.8	63.7	57.4	75.5	66.4	76.0	84.8	73.8	77.1	77.9	71.5
USG	USG 3345	54.7	52.7	53.7	58.6	87.5	73.0	70.1	86.7	77.7	74.0	77.1	70.2
USG	USG 3438	71.4	74.2	72.8	73.5	94.5	84.0	70.8	96.6	95.9	86.9	87.6	83.0
USG	USG 3555	68.0	72.7	70.4	60.5	85.2	72.9	71.2	105.5	68.9	68.9	78.6	75.1
Overall Mean		59.1	68.4	63.8	61.3	86.1	73.7	71.1	88.4	74.8	77.8	78.0	73.4
LSD (.10)		9.5	11.5		10.9	14.8		5.9	13.5	14.7	10.5		
Error degrees of freedom		207	207		207	207		207	207	207	207		
CV (%)		13.8	14.4		15.2	14.7		10.1	13.1	14.7	11.6		
R^2 (%)		73.1	48.6		70.1	43.9		26.7	65.5	63.1	46.3		

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

Brand	Variety	Brooks-ville	North avg.	Newton	Ray-mond	South avg.	Cleve-land	Issaquena County	Schlater	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*
AGS	AGS 2026	55.9	55.9	60.0	71.2	65.6	63.2	63.3	65.6	71.0	65.8	64.3
AGS	AGS 2035	48.7	48.7	67.1	83.1	75.1	75.0	76.1	76.4	73.5	75.3	71.4
AGS	AGS 2060	55.9	55.9	64.8	71.4	68.1	68.4	80.4	90.0	67.8	76.7	71.2
Armor	Ricochet	60.6	60.6	67.0	86.4	76.7	65.6	96.2	79.3	73.1	78.6	75.5
Delta Grow	Delta Grow 1600	47.6	47.6	47.7	67.6	57.7	65.9	76.5	68.0	63.3	68.4	62.4
Delta Grow	Delta Grow 8300	56.6	56.6	53.5	72.2	62.9	64.5	83.4	70.5	69.1	71.9	67.1
Delta King	DK 9577	38.9	38.9	55.3	66.4	60.8	66.3	82.5	71.2	62.7	70.7	63.3
Dixie	Dixie 454	51.5	51.5	62.4	65.6	64.0	61.2	86.3	78.6	64.6	72.7	67.2
Dixie Bell	DB 2125	47.8	47.8	41.5	64.2	52.8	65.7	80.5	72.7	59.0	69.5	61.6
Dixie Bell	DB2150	50.3	50.3	46.5	74.2	60.3	64.5	79.8	71.4	63.5	69.8	64.3
Dixie Bell	DB7440	46.8	46.8	43.9	66.5	55.2	63.9	81.2	71.7	60.6	69.3	62.1
Dyna-Gro	Baldwin	49.2	49.2	60.0	81.3	70.7	67.6	103.4	84.6	70.1	81.4	73.7
HBK	HBK 3266	59.5	59.5	62.8	83.4	73.1	63.9	65.5	73.1	71.8	68.6	68.6
Pioneer	Pioneer 26R15	59.7	59.7	63.7	83.2	73.4	64.1	81.0	76.9	74.0	74.0	71.8
Pioneer	Pioneer 26R20	57.6	57.6	65.8	78.5	72.2	59.7	79.8	79.7	72.3	72.9	70.5
Pioneer	Pioneer 26R22	60.5	60.5	68.7	93.6	81.2	62.6	82.9	84.4	76.8	76.7	75.7
Pioneer	Pioneer 26R87	66.6	66.6	67.9	82.3	75.1	64.1	73.6	89.1	75.8	75.6	74.2
Progeny	Progeny 117	62.4	62.4	57.7	72.8	65.3	60.0	72.8	73.3	67.4	68.4	66.6
Progeny	Progeny 125	50.6	50.6	53.1	71.7	62.4	66.7	74.5	70.4	61.6	68.3	64.1
Progeny	Progeny 166	51.4	51.4	61.4	70.7	66.0	69.2	79.2	75.0	63.3	71.7	67.2
Progeny	Progeny 185	55.0	55.0	56.7	67.7	62.2	62.1	74.6	77.1	63.9	69.4	65.3
Public	LA01110D-150	65.5	65.5	72.3	82.3	77.3	68.1	93.3	75.6	68.2	76.3	75.0
Public	VA Jamestown	57.2	57.2	61.2	71.7	66.5	58.3	90.1	82.0	68.3	74.7	69.8
Public	VA Merl	50.8	50.8	57.3	66.6	61.9	67.0	90.2	78.2	64.1	74.9	67.7
Syngenta	BERETTA	44.0	44.0	40.7	73.6	57.1	60.7	83.4	71.0	67.6	70.6	63.0
Syngenta	Coker 9553	55.0	55.0	64.9	80.6	72.8	71.2	83.1	77.9	66.9	74.8	71.4
Syngenta	ARCADIA	61.8	61.8	63.4	75.8	69.6	67.3	84.3	77.7	66.3	73.9	70.9
Syngenta	MAGNOLIA	59.5	59.5	57.5	72.1	64.8	67.2	84.2	77.1	67.7	74.0	69.3

Continued.

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

Brand	Variety	Brooksville	North avg.	Newton	Raymond	South avg.	Cleveland	Issaquena County	Schlater	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*	*bu/A*
Syngenta	Oakes	52.1	52.1	50.1	65.3	57.7	67.3	81.4	75.3	61.9	71.5	64.8
Terral	Terral LA821	56.0	56.0	60.7	71.2	65.9	57.3	62.0	64.7	71.0	63.8	63.3
Terral	Terral LA841	54.1	54.1	56.7	71.5	64.1	69.1	72.2	65.9	66.5	68.4	65.1
Terral	Terral TV8558	45.9	45.9	53.7	66.5	60.1	65.7	71.8	69.8	71.3	69.7	63.5
Terral	Terral TV8589	49.2	49.2	53.7	77.7	65.7	63.7	80.2	72.9	67.3	71.0	66.4
Terral	Terral TV8861	65.8	65.8	75.8	84.5	80.1	69.2	92.7	90.9	77.6	82.6	79.5
USG	USG 3201	66.7	66.7	68.6	75.3	72.0	66.4	89.3	94.6	76.5	81.7	76.8
USG	USG 3295	52.7	52.7	58.0	67.3	62.7	68.1	82.8	80.5	67.6	74.8	68.2
USG	USG 3438	69.4	69.4	69.6	84.7	77.2	70.9	91.3	92.2	77.7	83.0	79.4
USG	USG 3555	56.4	56.4	57.9	71.7	64.8	68.4	90.2	74.5	63.7	74.2	69.0
Overall Mean		55.1	55.1	59.2	74.5	66.9	65.5	81.5	76.8	68.3	73.0	68.7

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

Brand	Variety	Brooksville	North avg.	Newton	Raymond	South avg.	Cleveland	Issaquena County	Schlater	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*	*bu/A*
AGS	AGS 2026	57.9	57.9	50.3	63.0	56.7	57.9	59.2	61.9	65.2	61.0	59.3
AGS	AGS 2035	53.2	53.2	64.2	75.2	69.7	64.1	74.6	69.6	69.8	69.6	67.3
AGS	AGS 2060	57.5	57.5	64.5	60.7	62.6	61.2	74.5	80.5	65.0	70.3	66.3
Delta Grow	Delta Grow 1600	51.7	51.7	51.7	69.1	60.4	59.3	70.8	61.7	61.5	63.3	60.8
Delta King	DK 9577	47.4	47.4	59.1	67.8	63.5	58.4	77.6	66.1	61.8	66.0	62.6
Dixie	Dixie 454	56.6	56.6	62.0	68.9	65.4	56.4	76.2	73.2	61.9	66.9	65.0
Dixie Bell	DB 2125	53.4	53.4	47.9	62.9	55.4	57.4	71.8	67.2	58.4	63.7	59.9
Dixie Bell	DB2150	56.3	56.3	50.3	67.6	58.9	57.2	75.1	66.4	61.9	65.1	62.1
Dixie Bell	DB7440	54.5	54.5	49.5	67.1	58.3	56.1	77.2	67.6	61.5	65.6	61.9
Dyna-Gro	Baldwin	53.9	53.9	63.6	79.3	71.5	60.3	94.9	72.3	68.1	73.9	70.3
HBK	HBK 3266	62.7	62.7	65.8	77.5	71.7	58.3	66.2	67.3	69.1	65.2	66.7
Pioneer	Pioneer 26R15	63.5	63.5	63.1	81.7	72.4	58.1	73.5	69.8	68.5	67.5	68.3
Pioneer	Pioneer 26R20	60.8	60.8	67.5	75.5	71.5	55.0	74.0	70.2	70.1	67.3	67.6
Pioneer	Pioneer 26R22	62.0	62.0	68.1	89.9	79.0	54.3	75.7	74.9	70.9	68.9	70.8
Pioneer	Pioneer 26R87	66.7	66.7	65.9	78.0	72.0	58.5	70.7	81.3	69.5	70.0	70.1
Progeny	Progeny 117	66.3	66.3	58.8	69.5	64.2	54.2	70.1	67.1	65.2	64.2	64.5
Progeny	Progeny 166	57.8	57.8	63.7	73.8	68.7	58.6	72.4	70.5	62.1	65.9	65.6
Progeny	Progeny 185	59.0	59.0	60.3	70.6	65.4	55.5	70.4	70.5	63.4	64.9	64.2
Public	LA01110D-150	64.7	64.7	67.6	67.4	67.5	61.2	83.3	71.6	67.1	70.8	69.0
Public	VA Jamestown	60.5	60.5	57.2	64.5	60.9	55.7	79.8	78.6	61.7	69.0	65.4
Public	VA Merl	57.9	57.9	59.8	73.0	66.4	58.2	75.2	72.5	60.0	66.4	65.2
Syngenta	Beretta	49.4	49.4	46.5	73.3	59.9	56.5	75.6	63.6	61.0	64.2	60.8
Syngenta	Coker 9553	59.7	59.7	65.1	73.8	69.5	62.4	76.1	75.1	64.3	69.5	68.1
Syngenta	MAGNOLIA	62.6	62.6	59.8	70.5	65.1	58.9	80.1	68.8	65.5	68.3	66.6
Syngenta	Oakes	57.2	57.2	57.4	72.5	64.9	60.1	73.9	69.7	60.3	66.0	64.4
Terral	Terral LA821	59.7	59.7	57.4	60.8	59.1	52.1	59.8	59.8	68.5	60.1	59.7
Terral	Terral LA841	57.4	57.4	52.2	62.3	57.2	61.0	68.7	64.8	63.9	64.6	61.5
Terral	Terral TV8558	50.4	50.4	54.9	68.0	61.5	58.1	68.6	66.2	65.5	64.6	61.7
Terral	Terral TV8589	51.8	51.8	55.7	73.5	64.6	56.2	71.0	65.8	63.0	64.0	62.4
USG	USG 3295	54.5	54.5	60.9	70.7	65.8	59.5	77.2	74.1	65.5	69.1	66.1
USG	USG 3555	58.1	58.1	61.8	71.7	66.7	61.7	81.9	71.8	62.4	69.5	67.1
Overall Mean		57.6	57.6	59.1	71.0	65.0	58.1	74.1	69.7	64.6	66.6	64.9

Table 6. Yields of 70 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville Silty Clay Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Terral	TVX8848	77.8	—	—	30	59	4/10	1	34
AgriMaxx	Agri Maxx 415	74.6	—	—	29	61	4/10	1	33
Dyna-Gro	Dyna-Gro 9171	73.9	—	—	30	59	4/10	1	32
Dixie	McAlister	71.9	—	—	25	56	4/11	1	37
AgriMaxx	Agri Maxx 413	71.9	—	—	25	59	4/10	1	37
Delta Grow	Delta Grow 7500	71.7	—	—	23	56	4/8	1	34
Dixie Bell	Dixie Bell 620	71.7	—	—	25	57	4/10	1	37
USG	USG 3251	71.6	—	—	29	60	4/12	1	33
Armor	ARX 0186	71.5	—	—	24	61	4/9	1	34
USG	USG 3438	71.4	69.4	—	26	59	4/8	1	35
Progeny	Progeny PGX10-5	71.3	—	—	26	58	4/8	1	32
Pioneer	Pioneer 26R87	70.7	66.6	66.7	36	62	4/7	1	36
Pioneer	Pioneer XW09H	70.5	—	—	31	59	4/12	1	33
Public	VA Jamestown	69.2	57.2	60.5	28	61	4/7	1	35
Dixie	Kelsey	68.7	—	—	30	61	4/12	1	34
USG	USG 3120	68.7	—	—	29	61	4/7	1	37
Terral	Terral TV8861	68.2	65.8	—	28	59	4/12	1	35
USG	USG 3555	68.0	56.4	58.1	33	61	4/10	1	31
Public	LA01110D-150	67.9	65.5	64.7	34	60	4/11	1	35
Pioneer	Pioneer 26R22	67.6	60.5	62.0	28	60	4/14	1	34
Syngenta	ARCADIA	67.0	61.8	—	27	60	4/8	1	35
USG	USG 3201	66.0	66.7	—	27	61	4/9	1	34
Progeny	Progeny 117	65.6	62.4	66.3	27	58	4/9	2	40
AGS	AGS 2035	64.6	48.7	53.2	35	60	4/8	1	38
Armor	Ricochet	64.2	60.6	—	23	56	4/13	1	32
Syngenta	MAGNOLIA	64.1	59.5	62.6	31	60	4/9	1	36
AGS	AGS 2026	64.0	55.9	57.9	29	58	4/8	1	35
Terral	TVX8525	63.9	—	—	28	59	4/8	1	34
Progeny	Progeny PGX10-7	63.6	—	—	28	56	4/13	1	39
Terral	TVX8626	62.4	—	—	30	57	4/13	1	33
Pioneer	Pioneer 26R15	62.2	59.7	63.5	24	58	4/13	1	35
USG	USG 3295	61.7	52.7	54.5	25	60	4/9	1	35
Terral	TVX8535	61.2	—	—	25	58	4/8	1	37
Delta Grow	Delta Grow 7900	61.0	—	—	29	60	4/9	2	32
Progeny	Progeny PGX10-18	60.4	—	—	27	59	4/11	1	47
Dyna-Gro	Dyna-Gro 9053	59.5	—	—	23	58	4/14	1	34
Syngenta	Coker 9553	58.6	55.0	59.7	29	61	4/8	1	36
HBK	HBK 3266	58.5	59.5	62.7	29	60	4/11	1	36
Public	VA Merl	57.6	50.8	57.9	27	60	4/12	1	33
Armor	ARX 0179	57.0	—	—	32	61	4/10	1	36
AGS	AGS 2060	57.0	55.9	57.5	33	63	4/8	1	40
Progeny	Progeny 125	56.7	50.6	—	25	57	4/8	1	37
Progeny	Progeny PGX10-24	56.7	—	—	27	58	4/12	1	39
Progeny	Progeny 185	56.3	55.0	59.0	23	57	4/11	1	40
Public	LA02006E239	55.9	—	—	26	59	4/14	1	36
Public	GA 00067-8E35	55.6	—	—	26	59	4/9	1	37
Dyna-Gro	Baldwin	55.4	49.2	53.9	32	60	4/14	1	41
USG	USG 3345	54.7	—	—	22	57	4/10	1	36
Terral	Terral LA841	54.3	54.1	57.4	24	58	4/11	1	36
Public	LA01069D-23-4-4	53.8	—	—	25	59	4/8	1	34
Dixie Bell	DB2150	53.8	50.3	56.3	24	57	4/11	1	38
Pioneer	Pioneer 26R20	53.4	57.6	60.8	25	58	4/14	1	35
Terral	Terral LA821	53.1	56.0	59.7	27	58	4/8	1	36
Syngenta	Oakes	52.6	52.1	57.2	26	59	4/12	1	36
Public	GA 001138-8E36	51.6	—	—	30	60	4/13	1	39
Delta King	DK 9577	49.3	38.9	47.4	26	58	4/11	1	38
Progeny	Progeny PGX10-2	49.1	—	—	24	58	4/14	2	40
Delta Grow	Delta Grow 1600	48.4	47.6	51.7	25	59	4/12	1	36
Dixie Bell	DB 2125	47.2	47.8	53.4	24	56	4/13	1	39
Dixie	Dixie 454	46.9	51.5	56.6	26	59	4/14	1	37
Progeny	Progeny 166	45.8	51.4	57.8	25	56	4/11	2	39
Delta Grow	Delta Grow 8300	45.3	56.6		28	59	4/12	1	37
Terral	Terral TV8558	45.0	45.9	50.4	25	57	4/11	1	36
Terral	Terral TV8589	44.4	49.2	51.8	26	54	4/14	2	34
Syngenta	Beretta	44.0	44.0	49.4	21	52	4/13	1	34

Continued.

Table 6 (continued). Yields of 70 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville Silty Clay Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Public	VA05W-139	42.1	—	—	21	57	4/13	1	36
Dixie Bell	DB7440	41.0	46.8	54.5	21	53	4/11	1	38
Dixie Bell	DB 7100	39.3	—	—	26	59	4/13	2	35
Progeny	Progeny PGX10-13	33.3	—	—	27	56	4/14	1	33
Terral	TVX8460	32.9	—	—	25	52	4/14	2	36
Overall Mean		59.1							
LSD (.10)		9.5							
Error degrees of freedom		207							
CV (%)		13.8							
R^2 (%)		73.1							

[1]Planted October 12, 2010 Harvested June 1, 2011 Soil fertility: pH=6.2; P=M; K=M
Fertilizer added: (13-13-13) preplant @ 300 lb/A; N @ 100 lb/A ammonium nitrate on February 17, 2011 Previous Crop: Soybeans
[2] See "Procedures" for a description of lodging scores.

Table 7. Yields of 70 wheat varieties at Donald Gant Farms, Cleveland (Brittain Silt Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Syngenta	Oakes	77.7	67.3	60.1	32	60	4/10	1	36
Syngenta	ARCADIA	77.5	67.3	—	33	59	4/4	1	36
Dixie	Kelsey	76.7	—	—	32	59	4/10	1	32
HBK	HBK 3266	76.6	63.9	58.3	34	59	4/6	1	36
USG	USG 3295	76.0	68.1	59.5	31	60	4/8	1	32
Pioneer	Pioneer XW09H	75.9	—	—	35	60	4/11	1	33
Progeny	Progeny PGX10-7	75.1	—	—	33	58	4/12	1	34
Terral	Terral TV8558	74.9	65.7	58.1	32	61	4/9	1	33
Dixie Bell	DB 7100	74.6	—	—	30	61	4/12	1	32
Progeny	Progeny PGX10-24	74.6	—	—	30	61	4/11	1	37
Public	GA 001138-8E36	74.6	—	—	37	63	4/10	1	38
Dyna-Gro	Dyna-Gro 9171	74.5	—	—	31	58	4/8	1	34
Terral	Terral TV8861	74.4	69.2	—	31	61	4/12	1	35
Progeny	Progeny 166	74.4	69.2	58.6	31	60	4/12	1	37
AGS	AGS 2035	74.1	75	64.1	40	62	4/6	1	34
Terral	Terral TV8589	74.0	63.7	56.2	34	60	4/11	1	37
AgriMaxx	Agri Maxx 415	73.9	—	—	32	60	4/8	1	33
Syngenta	Coker 9553	73.8	71.2	62.4	40	60	4/5	1	35
Progeny	Progeny PGX10-2	73.7	—	—	29	61	4/12	1	34
Delta Grow	Delta Grow 7500	73.5	—	—	32	57	4/7	1	33
Armor	Ricochet	73.5	65.6	—	32	59	4/11	1	30
Public	VA05W-139	73.1	—	—	32	60	4/9	1	35
Dyna-Gro	Baldwin	73.0	67.6	60.3	40	62	4/12	1	38
Terral	TVX8848	72.8	—	—	29	59	4/10	1	35
Terral	TVX8535	72.6	—	—	27	59	4/7	1	33
Terral	Terral LA841	72.5	69.1	61	32	59	4/4	1	33
Terral	TVX8525	72.5	—	—	34	60	4/9	1	36
Public	VA Merl	72.4	67	58.2	35	60	4/8	1	34
Progeny	Progeny PGX10-5	72.4	—	—	28	58	4/9	1	33
Pioneer	Pioneer 26R15	72.3	64.1	58.1	31	60	4/9	1	34
Delta Grow	Delta Grow 1600	72.1	65.9	59.3	28	58	4/11	1	36
Delta King	DK 9577	72.1	66.3	58.4	33	60	4/10	1	33
Dixie	McAlister	72.0	—	—	27	59	4/8	1	33
AGS	AGS 2060	71.8	68.4	61.2	33	63	4/6	1	36
Terral	TVX8460	71.6	—	—	27	60	4/11	1	34
Public	LA01069D-23-4-4	71.5	—	—	33	60	4/4	1	38
Public	LA02006E239	71.3	—	—	48	59	4/4	1	36
USG	USG 3555	71.2	68.4	61.7	39	60	4/6	1	30
USG	USG 3201	71.1	66.4	—	35	62	4/9	1	33
Progeny	Progeny 185	71.1	62.1	55.5	28	57	4/11	1	33

Continued.

Table 7 (continued). Yields of 70 wheat varieties at Donald Gant Farms, Cleveland (Brittain Silt Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Progeny	Progeny 125	71.1	66.7	—	32	58	4/4	1	31
Dixie Bell	Dixie Bell 620	70.9	—	—	28	59	4/10	1	34
USG	USG 3438	70.8	70.9	—	29	58	4/7	1	35
Dixie Bell	DB 2150	70.8	64.5	57.2	37	60	4/9	1	38
Syngenta	MAGNOLIA	70.6	67.2	58.9	37	62	4/9	1	37
AGS	AGS 2026	70.6	63.2	57.9	32	61	4/4	1	33
Dixie	Dixie 454	70.1	61.2	56.4	36	61	4/11	1	36
USG	USG 3345	70.1	—	—	27	62	4/11	1	32
AgriMaxx	Agri Maxx 413	70.0	—	—	32	58	4/8	1	34
Dyna-Gro	Dyna-Gro 9053	69.9	—	—	32	58	4/11	1	33
Progeny	Progeny PGX10-18	69.5	—	—	26	58	4/11	1	38
Public	GA 00067-8E35	69.4	—	—	32	61	4/5	1	35
Progeny	Progeny PGX10-13	69.1	—	—	34	61	4/11	1	33
Pioneer	Pioneer 26R22	68.6	62.6	54.3	33	60	4/9	1	37
Delta Grow	Delta Grow 8300	68.6	64.5	—	33	60	4/6	1	34
Terral	Terral LA821	68.4	57.3	52.1	32	59	4/4	1	35
Armor	ARX 0179	68.4	—	—	30	60	4/10	1	33
Dixie Bell	DB 2125	68.4	65.7	57.4	31	59	4/4	1	38
Progeny	Progeny 117	67.4	60	54.2	30	61	4/11	1	35
USG	USG 3120	67.2	—	—	35	61	4/4	1	34
Pioneer	Pioneer 26R87	66.3	64.1	58.5	40	61	4/4	1	36
USG	USG 3251	66.0	—	—	40	60	4/10	1	33
Armor	ARX 0186	65.8	—	—	30	61	4/10	1	32
Dixie Bell	DB7440	65.7	63.9	56.1	34	60	4/8	1	38
Public	LA01110D-150	65.4	68.1	61.2	38	62	4/6	1	39
Delta Grow	Delta Grow 7900	65.3	—	—	31	62	4/9	1	34
Syngenta	BERETTA	63.5	60.7	56.5	33	58	4/11	1	35
Pioneer	Pioneer 26R20	63.4	59.7	55	37	61	4/10	1	33
Public	VA Jamestown	62.9	58.3	55.7	27	60	4/4	1	36
Terral	TVX8626	62.8	—	—	32	57	4/11	1	35
Overall Mean		71.1							
LSD (.10)		5.9							
Error degrees of freedom		207							
CV (%)		10.1							
R^2 (%)		26.7							

[1]Planted October 29, 2010 Harvested June 2, 2011 Soil fertility: pH 6.1; P=H; K=H Herbicide: Axial @ 16.4 oz/A on March 8, 2011
Fertilizer added: N @ 120 lb/A (41-0-0-4) in three split applications on February 15, March 18, and March 25, 2011 Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 8. Yields of 70 wheat varieties at Todd Heigle Farms, Issaquena County (Sharkey Mixed Clay Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Progeny	Progeny PGX10-7	112.8	—	—	46	55	4/11	1	37
Pioneer	Pioneer XW09H	111.2	—	—	50	56	4/11	1	38
Progeny	Progeny PGX10-5	109.6	—	—	43	57	4/7	1	36
Dyna-Gro	Baldwin	109.1	103.4	94.9	50	58	4/9	1	40
Dixie Bell	Dixie Bell 620	108.6	—	—	42	57	4/9	3	35
Public	VA Jamestown	105.6	90.1	79.8	41	57	3/26	2	36
Public	VA05W-139	105.6	—	—	44	58	4/6	1	34
USG	USG 3555	105.5	90.2	81.9	44	59	3/30	1	37
Armor	Ricochet	105.0	96.2	—	45	54	4/9	1	35
AgriMaxx	Agri Maxx 413	105.0	—	—	35	56	4/7	3	38
USG	USG 3251	103.7	—	—	42	59	4/9	2	38
Public	VA Merl	103.7	90.2	75.2	43	59	4/6	1	38
Armor	ARX 0186	103.5	—	—	44	56	4/8	1	37
Dyna-Gro	Dyna-Gro 9053	102.8	—	—	45	53	4/9	1	36
AgriMaxx	Agri Maxx 415	100.9	—	—	44	60	4/10	2	37

Continued.

Table 8 (cont.). Yields of 70 wheat varieties at Todd Heigle Farms, Issaquena County (Sharkey Mixed Clay Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Dixie	McAlister	100.7	—	—	36	56	4/5	2	36
Terral	TVX8525	100.0	—	—	40	58	4/8	2	39
Dyna-Gro	Dyna-Gro 9171	99.4	—	—	42	55	4/10	2	34
Dixie	Kelsey	99.3	—	—	38	59	4/8	3	35
Terral	TVX8626	98.8	—	—	40	55	4/11	2	37
Public	LA01110D-150	98.3	93.3	83.3	53	56	4/3	2	37
Delta Grow	Delta Grow 7500	98.2	—	—	38	55	4/7	3	43
USG	USG 3438	96.6	91.3	—	39	57	4/7	1	44
Progeny	Progeny PGX10-18	96.4	—	—	41	56	4/10	1	40
Dixie	Dixie 454	95.3	86.3	76.2	39	61	4/10	2	39
Delta King	DK 9577	93.1	82.5	77.6	41	55	4/7	1	39
Terral	TVX8535	93.1	—	—	40	56	4/7	2	38
USG	USG 3201	93.0	89.3	—	41	59	4/8	2	33
Terral	Terral TV8861	92.6	92.7	—	38	59	4/11	3	34
USG	USG 3120	91.4	—	—	45	58	3/30	2	37
Terral	TVX8848	89.0	—	—	43	58	4/10	3	35
Syngenta	Oakes	87.4	81.4	73.9	40	58	4/10	1	40
Public	GA 001138-8E36	87.3	—	—	46	59	4/10	1	33
Dixie Bell	DB2150	87.3	79.8	75.1	40	58	4/7	1	42
Dixie Bell	DB7440	87.1	81.2	77.2	40	57	4/7	2	42
USG	USG 3345	86.7	—	—	36	58	4/9	3	36
Syngenta	BERETTA	86.0	83.4	75.6	41	58	4/11	2	33
Syngenta	ARCADIA	85.9	84.3	—	44	58	3/26	1	38
Syngenta	MAGNOLIA	85.8	84.2	80.1	46	58	4/7	2	34
Public	GA 00067-8E35	85.7	—	—	39	59	4/3	1	41
Public	LA02006E239	85.6	—	—	52	57	4/4	1	37
USG	USG 3295	84.8	82.8	77.2	44	58	4/4	3	37
Progeny	Progeny PGX10-24	84.8	—	—	46	56	4/11	1	41
Pioneer	Pioneer 26R20	84.7	79.8	74.0	39	58	4/8	2	34
Dixie Bell	DB 2125	84.5	80.5	71.8	44	57	4/9	1	38
Syngenta	Coker 9553	83.9	83.1	76.1	43	58	4/3	1	34
Delta Grow	Delta Grow 8300	83.4	83.4		41	57	3/31	3	38
AGS	AGS 2035	81.9	76.1	74.6	48	60	4/3	2	35
AGS	AGS 2060	80.6	80.4	74.5	37	57	4/8	3	39
Terral	Terral TV8589	80.6	80.2	71.0	41	58	4/8	3	38
Public	LA01069D-23-4-4	80.4	—	—	44	57	4/4	2	36
Progeny	Progeny 166	78.4	79.2	72.4	39	58	4/9	3	33
Progeny	Progeny 185	78.2	74.6	70.4	38	57	4/7	3	35
Progeny	Progeny PGX10-13	78.1	—	—	45	56	4/10	1	36
Pioneer	Pioneer 26R15	76.4	81.0	73.5	42	57	4/6	1	35
Pioneer	Pioneer 26R22	75.9	82.9	75.7	44	57	4/8	3	37
Delta Grow	Delta Grow 1600	75.7	76.5	70.8	37	57	4/9	1	40
Progeny	Progeny 117	75.6	72.8	70.1	41	58	4/4	3	39
Progeny	Progeny 125	75.5	74.5	—	38	57	3/29	3	32
Terral	TVX8460	74.9	—	—	39	56	4/10	3	43
Terral	Terral TV8558	74.6	71.8	68.6	35	57	4/9	4	34
Pioneer	Pioneer 26R87	73.7	73.6	70.7	49	59	4/1	3	35
Dixie Bell	DB 7100	71.7	—	—	36	58	4/11	3	43
Delta Grow	Delta Grow 7900	71.6	—	—	43	59	4/8	1	39
Terral	Terral LA841	70.2	72.2	68.7	44	56	3/21	4	33
Progeny	Progeny PGX10-2	68.3	—	—	39	58	4/12	3	43
Armor	ARX 0179	64.6	—	—	44	57	4/7	3	37
HBK	HBK 3266	61.3	65.5	66.2	44	60	4/2	4	35
AGS	AGS 2026	59.5	63.3	59.2	40	57	3/31	4	35
Terral	Terral LA821	56.6	62.0	59.8	36	58	4/1	4	31
Overall Mean		88.4							
LSD (.10)		13.5							
Error degrees of freedom		207							
CV (%)		13.1							
R^2 (%)		65.5							

[1]Planted November 10, 2010 Harvested June 6, 2011 Soil fertility: pH 6.0; P=M; K=M Previous crop: Corn
Fungicide: Avaris @ 14 oz/A on March 28, 2011 Herbicide: Harmony Extra SG w/ TotalSol @ 0.9 oz/A on February 17, 2011
Fertilizer added: N @ 120 lb/A (46-0-0) split application on February 1, 2011, and March 28, 2011
[2]See "Procedures" for a description of lodging scores.

Table 9. Yields of 70 wheat varieties at MAFES Delta Branch, Stoneville (Tunica Silty Clay Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed[2]	Lodging score[3]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Dixie	McAlister	92.2	—	—	39	60	—	1	34
USG	USG 3120	90.3	—	—	37	58	—	1	36
Terral	Terral TV8861	90.0	77.6	—	33	59	—	1	35
Pioneer	Pioneer 26R22	88.6	76.8	70.9	44	61	—	1	36
Progeny	Progeny PGX10-7	88.5	—	—	36	58	—	1	33
Terral	TVX8848	87.7	—	—	37	58	—	1	38
Pioneer	Pioneer 26R87	87.7	75.8	69.5	40	59	—	1	35
Armor	Ricochet	87.2	73.1	—	38	61	—	1	36
USG	USG 3438	86.9	77.7	—	40	57	—	1	37
AGS	AGS 2035	86.7	73.5	69.8	29	60	—	1	30
Pioneer	Pioneer 26R15	85.0	74.0	68.5	39	60	—	1	30
Progeny	Progeny PGX10-5	84.6	—	—	35	61	—	1	41
Terral	TVX8525	84.1	—	—	40	57	—	1	36
AgriMaxx	Agri Maxx 415	83.8	—	—	34	60	—	1	34
Terral	TVX8535	83.6	—	—	40	58	—	1	40
Dixie Bell	Dixie Bell 620	83.5	—	—	34	60	—	1	34
Pioneer	Pioneer XW09H	83.5	—	—	36	59	—	1	32
AgriMaxx	Agri Maxx 413	83.3	—	—	40	60	—	1	33
USG	USG 3201	83.3	76.5	—	36	59	—	1	34
Pioneer	Pioneer 26R20	83.2	72.3	70.1	42	58	—	1	33
Dyna-Gro	Dyna-Gro 9053	83.0	—	—	33	58	—	1	33
Dyna-Gro	Baldwin	82.5	70.1	68.1	33	58	—	1	31
HBK	HBK 3266	82.0	71.8	69.1	39	59	—	1	33
Terral	TVX8626	81.8	—	—	33	58	—	1	36
Delta Grow	Delta Grow 7500	81.6	—	—	32	61	—	1	37
Armor	ARX 0186	81.2	—	—	38	62	—	1	35
Terral	Terral LA821	81.2	71.0	68.5	41	59	—	1	40
Dyna-Gro	Dyna-Gro 9171	80.5	—	—	38	60	—	1	34
Progeny	Progeny PGX10-18	79.2	—	—	39	60	—	1	37
Delta Grow	Delta Grow 8300	79.1	69.1		40	61	—	1	29
Public	VA Jamestown	78.5	68.3	61.7	34	59	—	1	35
AGS	AGS 2060	78.1	67.8	65.0	37	60	—	1	32
Progeny	Progeny PGX10-13	78.0	—	—	47	61	—	1	37
USG	USG 3251	77.7	—	—	38	60	—	1	38
Progeny	Progeny PGX10-2	77.6	—	—	33	57	—	1	33
Public	GA 00067-8E35	77.5	—	—	30	58	—	1	38
Public	LA02006E239	77.2	—	—	40	59	—	1	32
USG	USG 3295	77.1	67.6	65.5	33	58	—	1	32
Syngenta	Coker 9553	77.0	66.9	64.3	46	59	—	1	33
Public	LA01110D-150	76.9	68.2	67.1	36	58	—	1	36
AGS	AGS 2026	76.5	71.0	65.2	43	59	—	1	35
Armor	ARX 0179	76.4	—	—	44	60	—	1	37
Dixie	Kelsey	76.4	—	—	30	60	—	1	36
Terral	Terral TV8558	75.5	71.3	65.5	36	58	—	1	39
Syngenta	BERETTA	75.3	67.6	61.0	41	59	—	1	34
Public	GA 001138-8E36	74.3	—	—	33	59	—	1	35
Progeny	Progeny 117	74.2	67.4	65.2	36	57	—	1	34
USG	USG 3345	74.0	—	—	34	59	—	1	40
Progeny	Progeny PGX10-24	73.4	—	—	45	61	—	1	39
Terral	Terral LA841	73.2	66.5	63.9	35	60	—	1	41
Syngenta	MAGNOLIA	73.1	67.7	65.5	33	57	—	1	33
Progeny	Progeny 185	73.0	63.9	63.4	43	58	—	1	37
Delta Grow	Delta Grow 7900	73.0	—	—	34	61	—	1	34
Terral	Terral TV8589	72.0	67.3	63.0	28	58	—	1	35
Progeny	Progeny 125	71.7	61.6		39	59	—	1	37
Public	VA05W-139	71.6	—	—	35	57	—	1	30
Public	LA01069D-23-4-4	71.2	—	—	36	59	—	1	38
Delta Grow	Delta Grow 1600	71.0	63.3	61.5	38	62	—	1	40
Dixie Bell	DB 7100	70.9	—	—	43	58	—	1	29
Syngenta	ARCADIA	70.8	66.3	—	42	61	—	1	29
Delta King	DK 9577	70.0	62.7	61.8	36	61	—	1	32
Dixie Bell	DB 2150	69.2	63.5	61.9	30	60	—	1	33
USG	USG 3555	68.9	63.7	62.4	46	59	—	1	39
Public	VA Merl	68.8	64.1	60.0	36	57	—	1	32
Dixie Bell	DB 2125	68.7	59.0	58.4	40	61	—	1	33

Continued.

Table 9 (continued). Yields of 70 wheat varieties at MAFES Delta Branch, Stoneville (Tunica Silty Clay Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed[2]	Lodging score[3]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Progeny	Progeny 166	68.0	63.3	62.1	38	59	—	1	36
Terral	TVX8460	66.7	—	—	35	57	—	1	33
Dixie Bell	DB 7440	65.9	60.6	61.5	36	58	—	1	32
Dixie	Dixie 454	65.5	64.6	61.9	34	60	—	1	35
Syngenta	Oakes	61.1	61.9	60.3	31	60	—	1	34
Overall Mean		77.8							
LSD (.10)		10.5							
Error degrees of freedom		207							
CV (%)		11.6							
R^2 (%)		46.3							

[1]Planted November 1, 2010 Harvested May 31, 2011 Soil fertility: pH 6.4; P=M; K=M
Fertilizer added: N @ 102 lb/A (46-0-0) on February 23, 2011 Previous crop: Soybeans
[2]No heading dates taken.
[3]See "Procedures" for a description of lodging scores.

Table 10. Yields of 70 wheat varieties at MAFES Coastal Plain Branch, Newton (Prentiss Very Fine Sandy Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight[2]	Test weight[3]	Date headed	Lodging score[4]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Pioneer	Pioneer XW09H	83.2	—	—	—	—	4/11	1	34
Terral	Terral TV8861	79.7	75.8	—	—	—	4/11	1	31
Dixie	McAlister	79.3	—	—	—	—	4/6	1	29
AgriMaxx	Agri Maxx 413	79.0	—	—	—	—	4/6	1	29
USG	USG 3251	77.0	—	—	—	—	4/11	1	37
Terral	TVX8848	76.4	—	—	—	—	4/11	1	32
Progeny	Progeny PGX10-5	75.9	—	—	—	—	4/8	1	31
Terral	TVX8626	75.2	—	—	—	—	4/11	1	32
Armor	ARX 0186	74.3	—	—	—	—	4/8	1	32
Pioneer	Pioneer 26R87	74.2	67.9	65.9	—	—	4/1	1	34
Public	LA01110D-150	73.6	72.3	67.6	—	—	4/4	1	33
USG	USG 3438	73.5	69.6	—	—	—	4/8	1	29
Progeny	Progeny PGX10-7	72.9	—	—	—	—	4/11	1	35
USG	USG 3120	72.5	—	—	—	—	4/1	1	36
Pioneer	Pioneer 26R20	72.3	65.8	67.5	—	—	4/8	1	34
Public	GA 001138-8E36	72.3	—	—	—	—	4/11	1	38
Delta Grow	Delta Grow 7500	72.2	—	—	—	—	4/6	1	30
Armor	Ricochet	71.9	67.0	—	—	—	4/11	1	30
Dixie	Kelsey	70.3	—	—	—	—	4/8	1	30
Terral	TVX8535	69.5	—	—	—	—	4/8	1	29
USG	USG 3201	69.4	68.6	—	—	—	4/8	1	33
Pioneer	Pioneer 26R15	69.4	63.7	63.1	—	—	4/6	1	35
Terral	TVX8525	69.1	—	—	—	—	4/8	1	33
AGS	AGS 2060	68.7	64.8	64.5	—	—	4/11	1	39
Public	LA01069D-23-4-4	67.8	—	—	—	—	4/1	1	32
AgriMaxx	Agri Maxx 415	67.7	—	—	—	—	4/8	1	30
AGS	AGS 2035	67.6	67.1	64.2	—	—	4/8	1	36
Pioneer	Pioneer 26R22	66.8	68.7	68.1	—	—	4/6	1	32
Dixie Bell	Dixie Bell 620	64.2	—	—	—	—	4/8	1	31
Dyna-Gro	Dyna-Gro 9171	64.1	—	—	—	—	4/11	1	28
Public	VA Jamestown	63.8	61.2	57.2	—	—	4/1	1	30
HBK	HBK 3266	63.5	62.8	65.8	—	—	4/4	1	30
Dyna-Gro	Dyna-Gro 9053	63.4	—	—	—	—	4/11	1	32
Dixie	Dixie 454	63.3	62.4	62.0	—	—	4/8	1	33
Progeny	Progeny PGX10-2	62.8	—	—	—	—	4/11	1	39
Syngenta	Coker 9553	62.6	64.9	65.1	—	—	4/4	1	30
Dixie Bell	DB 7100	61.4	—	—	—	—	4/11	1	33
Public	LA02006E239	61.4	—	—	—	—	4/8	1	33
Syngenta	ARCADIA	60.6	63.4	—	—	—	4/1	1	31

Continued.

Table 10 (cont.). Yields of 70 wheat varieties at MAFES Coastal Plain Branch, Newton (Prentiss Very Fine Sandy Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight[2]	Test weight[3]	Date headed	Lodging score[4]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
USG	USG 3555	60.5	57.9	61.8	—	—	4/8	1	31
Terral	Terral LA821	60.0	60.7	57.4	—	—	4/4	1	37
Progeny	Progeny 117	59.6	57.7	58.8	—	—	4/8	1	35
Progeny	Progeny 166	59.0	61.4	63.7	—	—	4/8	1	37
Delta Grow	Delta Grow 7900	58.9	—	—	—	—	4/6	1	35
Dyna-Gro	Baldwin	58.9	60.0	63.6	—	—	4/11	1	36
USG	USG 3345	58.6	—	—	—	—	4/11	1	30
AGS	AGS 2026	58.4	60.0	50.3	—	—	4/4	1	32
USG	USG 3295	57.4	58.0	60.9	—	—	4/8	1	34
Progeny	Progeny 185	56.3	56.7	60.3	—	—	4/8	1	34
Terral	Terral LA841	55.5	56.7	52.2	—	—	4/4	1	35
Public	VA Merl	55.4	57.3	59.8	—	—	4/11	1	31
Public	GA 00067-8E35	55.4	—	—	—	—	4/11	1	32
Progeny	Progeny PGX10-24	54.8	—	—	—	—	4/11	1	35
Armor	ARX 0179	53.9	—	—	—	—	4/4	1	37
Syngenta	MAGNOLIA	53.8	57.5	59.8	—	—	4/8	1	32
Public	VA05W-139	53.6	—	—	—	—	4/11	1	28
Progeny	Progeny PGX10-18	50.8	—	—	—	—	4/8	1	40
Delta Grow	Delta Grow 8300	48.2	53.5	—	—	—	4/1	1	31
Terral	Terral TV8589	46.5	53.7	55.7	—	—	4/11	1	34
Delta King	DK 9577	46.2	55.3	59.1	—	—	4/11	1	35
Terral	Terral TV8558	44.9	53.7	54.9	—	—	4/11	1	34
Progeny	Progeny 125	44.7	53.1	—	—	—	4/1	1	30
Progeny	Progeny PGX10-13	43.4	—	—	—	—	4/11	1	34
Delta Grow	Delta Grow 1600	40.5	47.7	51.7	—	—	4/8	1	34
Dixie Bell	DB2150	40.2	46.5	50.3	—	—	4/11	1	35
Syngenta	Oakes	39.7	50.1	57.4	—	—	4/8	1	28
Syngenta	Beretta	38.5	40.7	46.5	—	—	4/11	1	28
Dixie Bell	DB7440	34.5	43.6	49.5	—	—	4/8	1	35
Terral	TVX8460	33.0	—	—	—	—	4/11	1	36
Dixie Bell	DB 2125	31.7	41.5	47.9	—	—	4/11	1	33
Overall Mean		61.3							
LSD (.10)		10.9							
Error degrees of freedom		207							
CV (%)		15.2							
R^2 (%)		70.1							

[1]Planted November 8, 2010 Harvested May 26, 2011 Fertilizer added: N @ 100 lb/A ammonium nitrate on February 21, 2011
Soil fertility: pH 6.3; P=H; K=H Previous crop: Wheat
[2]Seed weight not available.
[3]No heading dates taken.
[4]See "Procedures" for a description of lodging scores.

Table 11. Yields of 70 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring Silt Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed[2]	Lodging score[3]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Pioneer	Pioneer 26R22	103.1	93.6	89.9	64	60	—	1	34
AgriMaxx	Agri Maxx 413	101.9	—	—	49	59	—	1	32
Terral	TVX8848	100.5	—	—	66	60	—	1	36
Dyna-Gro	Dyna-Gro 9171	100.5	—	—	46	59	—	1	33
Public	LA01110D-150	98.9	82.3	67.4	65	61	—	1	38
USG	USG 3120	96.9	—	—	56	61	—	1	32
USG	USG 3251	96.4	—	—	51	60	—	1	36
Dixie Bell	DB 2150	96.3	74.2	67.6	62	60	—	1	34
AgriMaxx	Agri Maxx 415	96.3	—	—	53	61	—	1	28
Dixie	McAlister	96.1	—	—	57	59	—	1	30
Armor	ARX 0186	95.2	—	—	65	60	—	1	33
Pioneer	Pioneer 26R15	95.0	83.2	81.5	50	61	—	1	34

Continued.

Table 11 (continued). Yields of 70 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring Silt Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed[2]	Lodging score[3]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
USG	USG 3438	94.5	84.7		47	59	—	1	33
Pioneer	Pioneer XW09H	94.1	—	—	70	60	—	1	35
Armor	Ricochet	93.4	86.4	—	50	60	—	1	32
Progeny	Progeny PGX10-7	93.1	—	—	56	59	—	1	31
Progeny	Progeny PGX10-18	92.9	—	—	69	60	—	1	40
AGS	AGS 2035	92.6	83.1	75.2	61	60	—	1	37
Terral	TVX8626	92.2	—	—	58	58	—	1	35
Dixie	Kelsey	91.9	—	—	64	61	—	1	35
Terral	Terral TV8861	91.8	84.5		52	61	—	1	34
Progeny	Progeny 125	90.5	71.7	—	76	60	—	1	32
Terral	TVX8525	90.2	—	—	51	60	—	1	34
Dixie Bell	Dixie Bell 620	89.7	—	—	48	58	—	1	33
USG	USG 3201	89.6	75.3	—	63	61	—	1	31
Public	LA01069D-23-4-4	89.3	—	—	63	59	—	1	34
AGS	AGS 2026	89.3	71.2	63	69	59	—	1	34
Dyna-Gro	Baldwin	88.7	81.3	79.3	60	60	—	1	38
Terral	Terral TV8589	88.4	77.7	73.5	56	58	—	1	38
Syngenta	Coker 9553	88.3	80.6	73.8	59	60	—	1	33
Syngenta	BERETTA	88.2	73.6	73.3	59	59	—	1	36
Pioneer	Pioneer 26R20	88.1	78.5	75.5	67	62	—	1	33
Delta Grow	Delta Grow 7500	88.0	—	—	67	58	—	1	29
USG	USG 3345	87.5	—	—	67	60	—	1	34
Pioneer	Pioneer 26R87	87.4	82.3	78	68	59	—	1	35
Progeny	Progeny PGX10-24	87.4	—	—	70	60	—	1	36
Public	GA 001138-8E36	86.3	—	—	72	61	—	1	34
Dyna-Gro	Dyna-Gro 9053	86.1	—	—	60	58	—	1	33
HBK	HBK 3266	85.3	83.4	77.5	47	59	—	1	36
USG	USG 3555	85.2	71.7	71.7	67	60	—	1	32
Public	VA Jamestown	84.3	71.7	64.5	76	62	—	1	32
Progeny	Progeny PGX10-5	84.3	—	—	63	59	—	1	32
Progeny	Progeny 185	84.3	67.7	70.6	66	59	—	1	37
Public	VA05W-139	83.9	—	—	64	57	—	1	31
Dixie Bell	DB7440	83.9	66.5	67.1	49	58	—	1	37
Progeny	Progeny 166	83.9	70.7	73.8	71	60	—	1	40
Delta King	DK 9577	83.3	66.4	67.8	72	59	—	1	37
Syngenta	ARCADIA	82.8	75.8	—	50	57	—	1	34
Syngenta	MAGNOLIA	82.8	72.1	70.5	69	60	—	1	33
Terral	TVX8460	82.3	—	—	61	60	—	1	35
Terral	TVX8535	82.2	—	—	49	58	—	1	31
AGS	AGS 2060	81.7	71.4	60.7	75	63	—	1	40
Public	LA02006E239	81.1	—	—	67	62	—	1	36
Progeny	Progeny 117	81.0	72.8	69.5	55	59	—	1	38
Delta Grow	Delta Grow 7900	79.2	—	—	65	60	—	1	31
Delta Grow	Delta Grow 8300	79.0	72.2		47	59	—	1	30
Public	VA Merl	78.9	66.6	73	64	61	—	1	32
Terral	Terral LA821	78.0	71.2	60.8	75	59	—	1	37
Progeny	Progeny PGX10-2	77.8	—	—	64	61	—	1	36
Armor	ARX 0179	77.1	—	—	51	58	—	1	34
Dixie Bell	DB 2125	76.6	64.2	62.9	50	60	—	1	36
Terral	Terral LA841	76.3	71.5	62.3	43	62	—	1	36
USG	USG 3295	75.5	67.3	70.7	50	60	—	1	32
Public	GA 00067-8E35	73.8	—	—	66	58	—	1	32
Dixie	Dixie 454	73.1	65.6	68.9	55	59	—	1	31
Progeny	Progeny PGX10-13	72.3	—	—	67	60	—	1	33
Delta Grow	Delta Grow 1600	69.8	67.6	69.1	59	58	—	1	31
Syngenta	Oakes	68.3	65.3	72.5	62	60	—	1	32
Dixie Bell	DB 7100	64.3	—	—	69	60	—	1	32
Terral	Terral TV8558	61.8	66.5	68	66	60	—	1	35
Overall Mean		86.1							
LSD (.10)		14.8							
Error degrees of freedom		207							
CV (%)		14.7							
R^2 (%)		43.9							

[1]Planted November 12, 2010 Harvested May 25, 2011 Fertilizer added: N @ 115 lb/A ammonium nitrate on March 3, 2011
Soil fertility: pH 6.1; P=M; K=L Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.
[3]No heading dates taken.

Table 12. Yields of 70 wheat varieties at Michael Walker Farm, Schlater (Dubbs Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
USG	USG 3438	96.5	92.2	—	70	59	4/11	2	33
USG	USG 3295	95.9	80.5	74.1	51	56	4/11	1	34
Progeny	Progeny 166	91.7	75.0	70.5	57	54	4/11	1	34
Progeny	Progeny PGX10-24	91.6	—	—	57	56	4/11	1	40
Progeny	Progeny PGX10-2	91.6	—	—	75	57	4/11	1	39
Armor	ARX 0179	91.1	—	—	66	58	4/11	1	32
Terral	TVX8535	90.9	—	—	60	56	4/11	2	34
AgriMaxx	Agri Maxx 415	90.1	—	—	82	56	4/11	1	36
Pioneer	Pioneer 26R20	89.3	79.7	70.2	50	56	4/13	3	36
AgriMaxx	Agri Maxx 413	88.2	—	—	52	58	4/11	2	37
Terral	Terral TV8558	87.5	69.8	66.2	64	57	4/11	1	35
Terral	TVX8460	86.4	—	—	59	57	4/11	2	37
AGS	AGS 2060	86.3	90.0	80.5	80	61	4/11	2	36
Dixie	Kelsey	85.9	—	—	44	57	4/11	2	36
Dixie	Dixie 454	85.9	78.6	73.2	51	56	4/11	2	34
Public	LA01069D-23-4-4	83.8	—	—	77	58	4/11	1	34
Public	LA01110D-150	83.4	75.6	71.6	56	57	4/11	2	37
Terral	Terral LA821	83.3	64.7	59.8	74	58	4/6	1	35
Dyna-Gro	Dyna-Gro 9053	82.8	—	—	43	56	4/13	2	36
Delta Gro	Delta Gro 7900	82.2	—	—	58	56	4/11	1	34
Dyna-Gro	Baldwin	81.5	84.6	72.3	62	58	4/13	1	38
USG	USG 3120	80.4	—	—	67	58	4/8	2	35
USG	USG 3251	78.3	—	—	64	58	4/13	3	35
USG	USG 3201	77.7	94.6	—	55	58	4/11	1	38
Public	GA 001138-8E36	77.7	—	—	44	54	4/11	2	35
Public	VA Jamestown	77.5	82.0	78.6	50	53	4/6	2	35
Syngenta	Oakes	77.0	75.3	69.7	57	58	4/11	1	37
Syngenta	Coker 9553	77.0	77.9	75.1	61	57	4/11	1	36
Pioneer	Pioneer 26R22	74.6	84.4	74.9	74	55	4/11	3	36
USG	USG 3555	73.8	74.5	71.8	55	59	4/11	1	33
Progeny	Progeny PGX10-18	73.6	—	—	59	54	4/11	2	33
Progeny	Progeny PGX10-5	73.4	—	—	60	57	4/11	1	39
Dixie	McAlister	73.2	—	—	50	58	4/11	3	42
Terral	Terral TV8589	73.1	72.9	65.8	69	57	4/11	2	36
Progeny	Progeny PGX10-7	72.6	—	—	58	57	4/13	1	39
Delta Grow	Delta Grow 1600	72.3	68.0	61.7	77	59	4/11	3	33
Dyna-Gro	Dyna-Gro 9171	72.2	—	—	55	57	4/11	1	35
Armor	ARX 0186	72.2	—	—	68	55	4/11	1	35
Dixie Bell	DB 7100	72.2	—	—	61	55	4/13	2	35
Dixie Bell	DB 2125	71.8	72.7	67.2	52	55	4/11	2	38
Syngenta	BERETTA	71.7	71.0	63.6	69	56	4/13	2	37
Public	LA02006E239	71.6	—	—	51	57	4/11	1	37
Pioneer	Pioneer 26R15	71.1	76.9	69.8	58	54	4/11	3	38
Syngenta	MAGNOLIA	70.3	77.1	68.8	65	58	4/11	1	34
Progeny	Progeny 125	70.1	70.4	—	70	53	4/6	2	33
Armor	Ricochet	69.9	79.3	—	70	58	4/11	1	38
Public	VA05W-139	69.6	—	—	49	55	4/11	1	35
Delta King	DK 9577	69.6	71.2	66.1	59	55	4/11	1	38
HBK	HBK 3266	69.5	73.1	67.3	53	56	4/8	3	39
Dixie Bell	Dixie Bell 620	69.4	—	—	55	55	4/11	2	38
USG	USG 3345	68.9	—	—	59	56	4/11	2	32
Public	GA 00067-8E35	68.7	—	—	58	58	4/11	1	35
Terral	TVX8626	68.2	—	—	67	54	4/13	3	38
Progeny	Progeny PGX10-13	68.0	—	—	56	52	4/11	3	34
Pioneer	Pioneer 26R87	67.7	89.1	81.3	68	55	4/6	3	36
Public	VA Merl	67.4	78.2	72.5	62	57	4/11	2	35
Syngenta	ARCADIA	67.1	77.7	—	53	54	4/6	1	36
AGS	AGS 2026	66.4	65.6	61.9	45	56	4/8	2	39
Dixie Bell	DB 2150	66.0	71.4	66.4	91	59	4/11	2	40
Dixie Bell	DB 7440	65.3	71.7	67.6	43	53	4/13	2	38
Pioneer	Pioneer XW09H	64.6	—	—	48	57	4/11	1	35
Progeny	Progeny 117	62.7	73.3	67.1	63	52	4/11	2	33
Terral	Terral TV8861	61.5	90.9	—	57	54	4/13	3	38
Terral	Terral LA841	58.8	65.9	64.8	62	54	4/11	2	38

Continued.

Table 12 (continued). Yields of 70 wheat varieties at Michael Walker Farm, Schlater (Dubbs Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Seed weight	Test weight	Date headed	Lodging score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Terral	TVX8525	58.4	—	—	53	54	4/11	3	38
Delta Grow	Delta Grow 7500	58.2	—	—	75	55	4/11	2	38
AGS	AGS 2035	58.0	76.4	69.6	71	53	4/8	3	34
Delta Grow	Delta Grow 8300	57.6	70.5	—	46	55	4/11	2	34
Terral	TVX8848	57.3	—	—	77	55	4/11	3	39
Progeny	Progeny 185	56.2	77.1	70.5	70	58	4/11	2	38
Overall Mean		74.8							
LSD (.10)		14.7							
Error degrees of freedom		207							
CV (%)		14.7							
R^2 (%)		63.1							

[1]Planted October 29, 2010 Harvested May 27, 2011 Soil fertility: pH=6.2; P=H; K=M
Herbicide: Harmony @ 0.7 oz/A Previous crop: Wheat
Fertilizer added: DAP @ 100 lb/A (18-46-0) on November 22, 2011; N @ 150 lb/A (56-0-0-17.25S) on February 16, 2011; N @ 150 lb/A (69-0-0) on March 18, 2011
[2]See "Procedures" for a description of lodging scores.

Table 13. Yields of 70 wheat varieties at Clifton Farms, Hernando (Collins Silt Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.[2]	3-year avg.[2]	Seed weight[3]	Test weight[4]	Date headed[5]	Lodging score[6]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
HBK	HBK 3266	81.9	—	—	—	—	—	1	27
Terral	TVX8535	80.1	—	—	—	—	—	1	36
Progeny	Progeny PGX10-7	79.1	—	—	—	—	—	1	24
Dixie	Kelsey	78.8	—	—	—	—	—	1	35
Progeny	Progeny PGX10-5	78.3	—	—	—	—	—	1	34
Public	GA 00067-8E35	78.0	—	—	—	—	—	1	33
AGS	AGS 2060	78.0	—	—	—	—	—	1	33
Progeny	Progeny PGX10-24	77.0	—	—	—	—	—	1	34
Dyna-Grow	Dyna-Grow 9171	76.7	—	—	—	—	—	1	29
AgriMaxx	Agri Maxx 413	76.2	—	—	—	—	—	1	34
Public	VA05W-139	76.0	—	—	—	—	—	1	28
Terral	TVX8848	76.0	—	—	—	—	—	1	29
Dyna-Grow	Dyna-Gro 9053	76.0	—	—	—	—	—	1	30
Terral	TVX8626	75.8	—	—	—	—	—	1	35
Pioneer	Pioneer 26R22	75.6	—	—	—	—	—	1	31
AgriMaxx	Agri Maxx 415	75.3	—	—	—	—	—	1	32
Progeny	Progeny 166	75.1	—	—	—	—	—	1	31
USG	USG 3438	74.2	—	—	—	—	—	1	32
Delta Grow	Delta Grow 1600	74.0	—	—	—	—	—	1	37
Progeny	Progeny PGX10-13	74.0	—	—	—	—	—	1	32
Terral	Terral TV8558	73.6	—	—	—	—	—	1	27
Public	GA 001138-8E36	73.3	—	—	—	—	—	1	30
Delta Grow	Delta Grow 7500	73.3	—	—	—	—	—	1	29
Pioneer	Pioneer 26R20	73.1	—	—	—	—	—	1	31
Terral	Terral TV8589	73.1	—	—	—	—	—	1	26
Armor	Armor ARX 9304	72.9	—	—	—	—	—	1	31
USG	USG 3555	72.7	—	—	—	—	—	1	36
USG	USG 3201	72.7	—	—	—	—	—	1	29
Pioneer	Pioneer XW09H	72.5	—	—	—	—	—	1	33
AGS	AGS 2035	72.1	—	—	—	—	—	1	35
Delta King	DK 9577	71.6	—	—	—	—	—	1	30
Dixie Bell	Dixie Bell 620	71.6	—	—	—	—	—	1	32
Terral	TVX8525	71.3	—	—	—	—	—	1	30
USG	USG 3251	71.1	—	—	—	—	—	1	33
Syngenta	Beretta	70.1	—	—	—	—	—	1	29
Pioneer	Pioneer 26R15	70.0	—	—	—	—	—	1	28

Continued.

Table 13 (continued). Yields of 70 wheat varieties at Clifton Farms, Hernando (Collins Silt Loam Soil).[1]

Brand	Variety	2010-11 yield	2-year avg.[2]	3-year avg.[2]	Seed weight[3]	Test weight[4]	Date headed[5]	Lodging score[6]	Plant height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Syngenta	Coker 9553	70.0	—	—	—	—	—	1	32
Dixie	Dixie 454	69.8	—	—	—	—	—	1	34
Dixie Bell	DB7440	67.5	—	—	—	—	—	1	33
Public	LA01110D-150	67.5	—	—	—	—	—	1	26
Terral	Terral TV8861	67.1	—	—	—	—	—	1	31
Progeny	Progeny 117	66.8	—	—	—	—	—	1	26
Delta Grow	Delta Grow 8300	66.5	—	—	—	—	—	1	26
Syngenta	MAGNOLIA	66.2	—	—	—	—	—	1	29
Armor	ARX 0186	66.2	—	—	—	—	—	1	35
USG	USG 3295	65.8	—	—	—	—	—	1	28
Pioneer	Pioneer 26R87	65.6	—	—	—	—	—	1	33
Dixie Bell	DB 2125	65.3	—	—	—	—	—	1	32
Progeny	Progeny PGX10-2	64.9	—	—	—	—	—	1	31
Dixie Bell	DB 7100	64.5	—	—	—	—	—	1	30
Public	VA Jamestown	64.4	—	—	—	—	—	1	33
Dixie	McAlister	63.9	—	—	—	—	—	1	34
Dixie Bell	DB2150	63.6	—	—	—	—	—	1	39
Dyna-Gro	Baldwin	62.2	—	—	—	—	—	1	32
Delta Grow	Delta Grow 7900	62.1	—	—	—	—	—	1	30
Public	LA01069D-23-4-4	62.1	—	—	—	—	—	1	24
Terral	Terral LA841	60.2	—	—	—	—	—	1	36
Terral	Terral LA821	60.2	—	—	—	—	—	1	34
USG	USG 3120	59.0	—	—	—	—	—	1	31
Public	LA02006E239	58.7	—	—	—	—	—	1	26
Progeny	Progeny PGX10-18	58.6	—	—	—	—	—	1	34
Progeny	Progeny 125	58.1	—	—	—	—	—	1	26
Syngenta	Oakes	57.8	—	—	—	—	—	1	30
Terral	TVX8460	56.9	—	—	—	—	—	1	27
Syngenta	ARCADIA	56.1	—	—	—	—	—	1	38
Public	VA Merl	56.0	—	—	—	—	—	1	25
Armor	ARX 0179	54.7	—	—	—	—	—	1	33
USG	USG 3345	52.7	—	—	—	—	—	1	31
Progeny	Progeny 185	51.7	—	—	—	—	—	1	30
AGS	AGS 2026	49.3	—	—	—	—	—	1	30
Overall Mean		68.4							
LSD (.10)		11.5							
Error degrees of freedom		207							
CV (%)		14.4							
R^2 (%)		48.6							

[1]Planted November 1, 2010 Harvested June 7, 2011 Soil fertility: pH 6.1; P=H; K=H Previous crop: Soybeans
Fertilizer added: 15-35-60 preplant; N @ 73 lb/A (32%) on February 24, 2011 Herbicide: Axial @ 16.4 oz/A on March 2011
[2]No 2- or 3-year yields
[3]No seed weight taken
[4]No test weight taken
[5]No heading dates taken.
[6]See "Procedures" for a description of lodging scores.

Table 14. Average number of wheat seeds per pound.

Brand	Variety	2010-11 average	2-year average	Brand	Variety	2010-11 average	2-year average
		seeds/lb	*seeds/lb*			*seeds/lb*	*seeds/lb*
AgriMaxx	Agri Maxx 413	12,224	—	Progeny	Progeny PGX10-18	11,767	—
AgriMaxx	Agri Maxx 415	10,575	—	Progeny	Progeny PGX10-2	14,036	—
AGS	AGS 2026	14,166	13,558	Progeny	Progeny PGX10-24	11,623	—
AGS	AGS 2035	9,960	10,544	Progeny	Progeny PGX10-5	12,254	—
AGS	AGS 2060	12,355	11,408	Progeny	Progeny PGX10-7	11,047	—
Armor	Ricochet	13,500	13,043	Public	GA 00067-8E35	13,291	—
Armor	ARX 0179	13,780	—	Public	GA 001138-8E36	11,214	—
Armor	ARX 0186	13,780	—	Public	LA01069D-23-4-4	13,565	—
Delta Grow	Delta Grow 1600	13,479	14,245	Public	LA01110D-150	11,578	
Delta Grow	Delta Grow 7500	12,954	—	Public	LA02006E239	13,895	—
Delta Grow	Delta Grow 7900	12,791	—	Public	VA Jamestown	12,161	13,521
Delta Grow	Delta Grow 8300	13,302	13,435	Public	VA Merl	11,042	11,531
Delta King	DK 9577	14,050	15,124	Public	VA05W-139	11,269	—
Dixie	Dixie 454	12,064	12,240	Syngenta	BERETTA	13,638	14,772
Dixie	Kelsey	10,767	—	Syngenta	Coker 9553	11,397	11,686
Dixie	McAlister	12,761	—	Syngenta	ARCADIA	11,797	14,281
Dixie Bell	DB 2125	11279	13263	Syngenta	MAGNOLIA	11,499	12,008
Dixie Bell	DB 7100	13,401	—	Syngenta	Oakes	12,668	13,868
Dixie Bell	DB 2150	12,217	13,605	Terral	Terral LA821	13,096	12,797
Dixie Bell	DB 7440	12,118	13,076	Terral	Terral LA841	13,077	13,386
Dixie Bell	Dixie Bell 620	11,570	—	Terral	Terral TV8558	16,735	16,103
Dyna-Gro	Baldwin	10,226	11,552	Terral	Terral TV8589	12,831	13,418
Dyna-Gro	Dyna-Gro 9053	10,510	—	Terral	Terral TV8861	12,398	—
Dyna-Gro	Dyna-Grow 9171	12,706	—	Terral	TVX8460	13,235	—
HBK	HBK 3266	11,827	13,557	Terral	TVX8525	11,297	—
Pioneer	Pioneer 26R15	11,661	11,858	Terral	TVX8535	14,491	—
Pioneer	Pioneer 26R20	12,631	12,701	Terral	TVX8626	11,075	—
Pioneer	Pioneer 26R22	11,026	11,614	Terral	TVX8848	15,562	—
Pioneer	Pioneer 26R87	11,497	10,211	USG	USG 3120	11,092	10,729
Pioneer	Pioneer XW09H	11,632	—	USG	USG 3201	11,408	10,901
Progeny	Progeny 117	11,844	11,829	USG	USG 3251	10,872	—
Progeny	Progeny 125	13,025	14,474	USG	USG 3295	12,444	
Progeny	Progeny 166	12,395	12,389	USG	USG 3345	14,083	—
Progeny	Progeny 185	10,967	12,117	USG	USG 3438	12,596	13,189
Progeny	Progeny PGX10-13	11,764	—	USG	USG 3555	11,089	11,373

Table 15. Average number of wheat seeds per pound.

Brand	Variety	2010-11 average	2-year average	Brand	Variety	2010-11 average	2-year average
		seeds/lb	*seeds/lb*			*seeds/lb*	*seeds/lb*
Public	LA 05006 GSBS 65-S1	13,961	—	Public	FL 0522-FLID-B-S-BS-92-S1	16,481	—
Public	LA 03063-SBS-BSB-54	14,629	—	Plantation Seed	Horizon 270	12,693	12,697

Table 16. 2011 yield summary of oat variety trials in Mississippi.

Brand	Variety	Brooksville	Newton	Raymond	Stoneville	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Public	LA 05006 GSBS 65-S1	106.0	63.0	140.0	137.2	112
Public	LA 03063-SBS-BSB-54	68.7	80.8	123.4	139.5	103
Public	FL 0522-FLID-B-S-BS-92-S1	73.7	79.1	120.2	111.9	96
Plantation Seed	Horizon 270	112.5	84.5	127.5	133.2	114
Overall Mean		90.0	76.8	127.8	130.4	106
LSD		33.4	8.4	26.7	42.0	28
Error df		9.0	9.0	9.0	3.0	8
CV		28.5	8.4	16.1	13.4	17
R^2		52.0	80.6	27.5	69.6	57

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

Brand	Variety	Brooksville	Newton	Raymond	Stoneville	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Public	LA 03063-SBS-BSB-S4	61.0	72.0	92.3	121.9	86.8
Plantation Seed	Horizon 270	93.8	78.3	103.6	119.8	98.9
Overall Mean		77.4	75.2	98.0	120.9	92.9

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

Brand	Variety	Brooksville	Newton	Raymond	Stoneville	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Plantation Seed	Horizon 270	103.7	79	93.3	117.1	98.3
Overall Mean		103.7	79	93.3	117.1	98.3

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

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Test weight	Lodging Score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*
Public	LA 05006 GSBS 65-S1	106.0	—	—	34	1	33
Public	LA 03063-SBS-BSB-S4	68.7	61.0	—	36	1	34
Public	FL 0522-FLID-B-S-BS-92-S1	73.7	—	—	35	1	33
Plantation Seed	Horizon 270	112.5	93.8	103.7	36	1	32
Overall Mean		90.0	77.4	103.7			
LSD		33.4					
Error df		9.0					
CV		28.5					
R^2		52.0					

[1]Planted November 11, 2010 Harvested June 1, 2011 Soil fertility: pH=6.2; P=M; K=M Previous crop: Soybeans
Fertilizer added: (13-13-13) preplant @ 300 lb/A; N @ 100 lb/A ammonium nitrate on February 17, 2011
[2]See "Procedures" for a description of lodging scores.

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

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Test weight	Lodging Score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*
Public	LA 05006 GSBS 65-S1	63.0	—	—	30	1	42
Public	LA 03063-SBS-BSB-S4	80.8	72.0	—	34	1	44
Public	FL 0522-FLID-B-S-BS-92-S1	79.1	—	—	32	1	39
Plantation Seed	Horizon 270	84.5	78.3	79.0	33	1	41
Overall Mean		76.8	75.2	79.0			
LSD		8.4					
Error df		9.0					
CV		8.4					
R^2		80.6					

[1]Planted November 8, 2010 Harvested May 26, 2011 Previous crop: Wheat
Soil fertility: pH 6.3; P=H; K=H Fertilizer added: N @ 80 lb/A ammonium nitrate on February 21, 2011
[2]See "Procedures" for a description of lodging scores.

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

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Test weight	Lodging Score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*
Public	LA 05006 GSBS 65-S1	140.0	—	—	35	1	38
Public	LA 03063-SBS-BSB-S4	123.4	92.3	—	36	1	41
Public	FL 0522-FLID-B-S-BS-92-S1	120.2	—	—	34	1	40
Plantation Seed	Horizon 270	127.5	103.6	93.3	35	1	39
Overall Mean		127.8	98.0				
LSD		26.7					
Error df		9.0					
CV		16.1					
R^2		27.5					

[1]Planted November 12, 2010 Harvested May 25, 2011 Previous crop: Soybeans
Soil fertility: pH 6.1; P=M; K=L Fertilizer added: N @ 115 lb/A ammonium nitrate on March 3, 2011
[2]See "Procedures" for a description of lodging scores.

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

Brand	Variety	2010-11 yield	2-year avg.	3-year avg.	Test weight	Lodging Score[2]	Plant height
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*
Public	LA 05006 GSBS 65-S1	137.2	—	—	38	1	43
Public	LA 03063-SBS-BSB-S4	139.5	121.9	—	38	1	41
Public	FL 0522-FLID-B-S-BS-92-S1	111.9	—	—	35	1	35
Plantation Seed	Horizon 270	133.2	119.8	117.1	36	1	36
Overall Mean		130.4	120.9	117.1			
LSD		42.0					
Error df		3.0					
CV		13.4					
R^2		69.6					

[1]Planted November 1, 2010 Harvested May 31, 2011 Soil fertility: pH 6.4; P=M; K=M
Fertilizer added: N @ 102 lb/A (46-0-0) on February 23, 2011 Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

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