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Mississippi WHEAT & OAT

VARIETY TRIALS, 2009

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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, 2009

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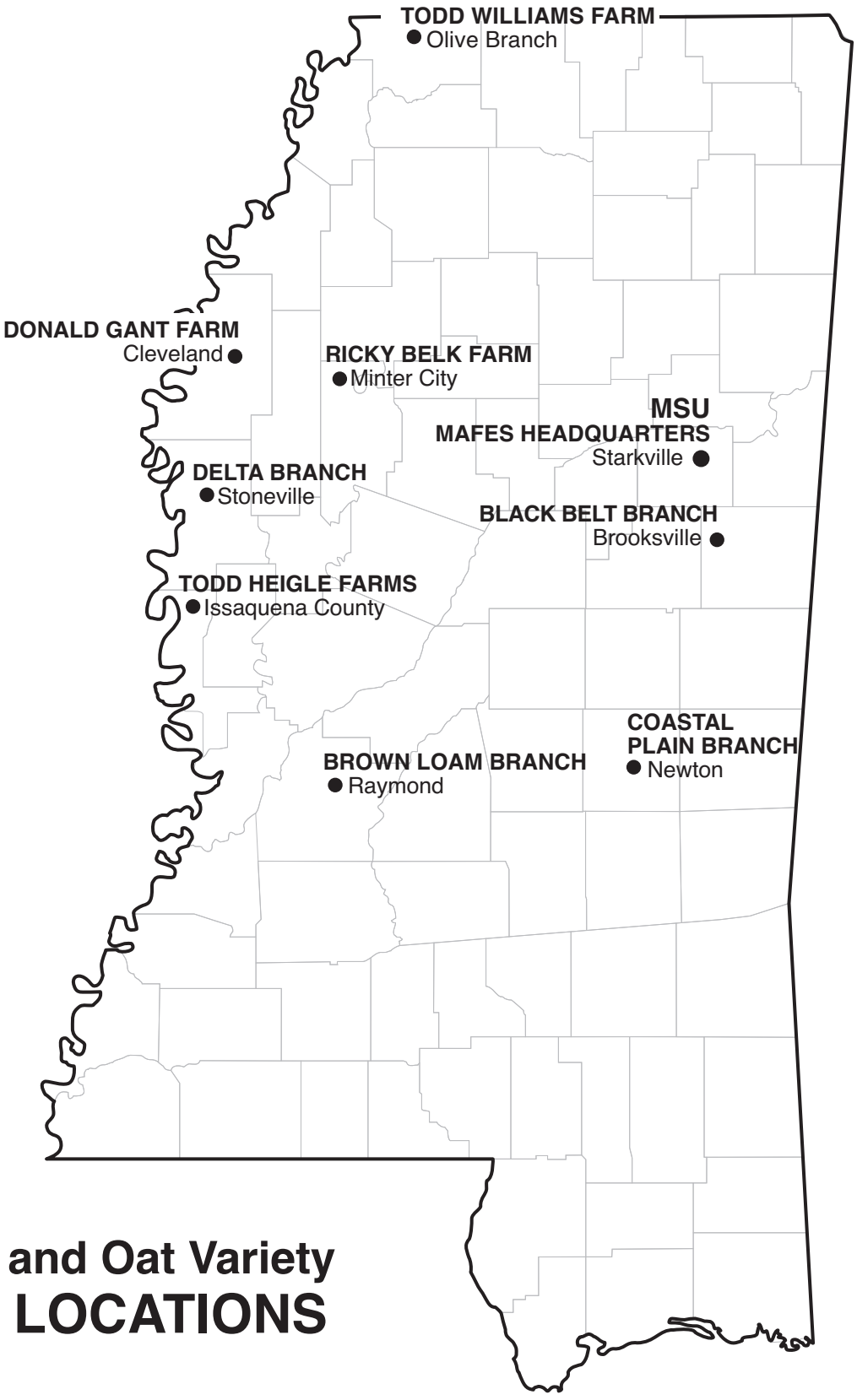

Wheat and Oat Variety
TEST LOCATIONS

Mississippi Wheat and Oat Variety Trials, 2009

Introduction

Small grains are grown throughout Mississippi. Wheat is the primary crop, followed by oats. Wheat variety trials were conducted at eight locations and oats at four locations in Mississippi in 2008-2009. Wheat yields typically range from 40 to 60 bushels per acre and often produce 60 to 80 bushels per acre under good management and favorable weather conditions. Oat yields from 50 to 80 bushels per acre are common.

Procedures

Experimental Design. Experimental design for each crop species at each location was a randomized complete block with four replications. Plots consisted of seven 14.5-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. Seed of all private entries were supplied by participating companies. Seed of all public varieties were breeder or foundation seed from the state that developed the variety.

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

Yield. A plot combine was used to harvest the total plot area after the plots were trimmed to a standard length. Harvested seed were converted to bushels per acre (60 pounds per bushel for wheat; 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 to 1.5 inches, depending upon soil moisture status and soil type. Deep seeding is recommended when soil moisture is marginally dry, particularly on light, sandy soils. Producers who do not have grain drills may "rough in" small grains by broadcast sowing on recently tilled soil and covering the seed with a light tillage operation, such as a harrow, field cultivator or shallow disking. Seeding rates should be increased approximately 25% when utilizing the "rough in" system to compensate for poorer establishment since seeding depth is random and no firming over the seed occurs with this method. When field conditions are too wet to permit tractor operations, or when 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 to 100 pounds of seed per acre, depending upon the variety and planting date. The low rate should be used when planting at the normal date, and the higher rates should be used when planting late or when planting conditions are poor. If seed is broadcast and covered with a disk or field cultivator, 100 to 120 pounds of seed per acre should be planted. When seeding aerially, about 150 pounds per acre should be applied. Seeding rates are similar for oats. This should result in final plant stands of approximately 25–30 plants per square foot.

Cold Requirements. Winter varieties of small grains require a certain amount of cold weather (less than 40°F) before the plants will form seed heads. This process is called vernalization. Most of the wheat varieties planted in Mississippi require low temperatures to reproduce; oats do not. In some years, there is not enough cold weather in south Mississippi for some northern-adapted wheat varieties, resulting in little or no seed-head production. Normally, these varieties have late heading dates at south Mississippi locations. Check adaptation of unfamiliar 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 to 160 pounds per acre, depending primarily upon soil texture with higher rates needed on clay soils. For wheat production, split application of nitrogen fertilizer is strongly encouraged 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 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:

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, 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, with the remaining 10% unaccounted for. The higher the R^2 value, the more precise the trial. The R^2 is generally considered to be a better measure of precision than is the CV for comparison of different trials.

Weather Summary by Location

Brooksville — Wheat and oat plots were planted into a conventionally prepared seedbed. Adequate soil moisture allowed for quick germination, resulting in a well-established stand. Growing conditions were favorable, while disease and insect pressure was light throughout the season. Bird damage was very minimal, and harvest was completed in a timely manner.

Olive Branch — Wheat plots were planted into a freshly tilled, well-prepared bed. Soil moisture was ideal at planting, allowing plants to emerge to a stand quickly. However, the final stand was thin overall, resulting in lower yields than normally observed at this location. There was little to no disease pressure throughout the season. Conditions were favorable at harvest.

Newton — The study was established under near ideal moisture and temperature conditions, resulting in excellent germination and early growth. Near normal conditions prevailed throughout the growing season except for May. It rained 50% of the days in May, totaling 6.02 inches. Harvest was made in a timely manner, and disease was not significant. Birds posed only a slight problem.

Raymond — Wheat and oat varieties were planted into a conventionally prepared seedbed. Soil moisture was good at planting, and wheat and oat varieties emerged to a good stand. Winter temperatures were normal; however, rainfall during late winter through early spring was below average, followed by excessive rains in March and early April. There was no disease pressure during the growing season. Wheat and oat varieties were harvested under good conditions.

Cleveland — The 2008-09 wheat variety trial was planted under ideal growing conditions. Adequate moisture allowed for quick germination and early seedling growth. Growing conditions were ideal with the exception of the above-average spring rains, which were a major yield limitation. Weather was dry during early June, allowing for favorable harvest conditions.

Issaquena County — The 2008-09 wheat variety trial was planted on Todd Heigle Farms Oct. 30, 2008. There was sufficient moisture to bring the wheat to an adequate stand in a timely manner. Winter weather was normal. There were no abnormally cold periods throughout the growing season. Late-season frosts were not a problem this year.

Minter City — Wheat was planted following corn into a well-prepared, conventional seedbed with good moisture. The wheat emerged with good uniformity in all plots. Throughout the winter months, the wheat looked good with no standing water in the plots or other problems. Light frost damage was observed during the early part of March. Minimal disease pressure was observed at this location. During early May, army worm numbers in the plots and the surrounding wheat field were high enough to justify spraying. Plots were harvested timely and under ideal conditions.

Stoneville — Planting season 2008 was good with adequate moisture to bring up fall plantings. The beginning of the growing season was conducive to get the crop off to a good start. A couple of months had above-normal rainfall with May being 8.5 inches above the normal. This rainfall came toward the end of May when the crop was already made and caused little harm. Overall, it was a good growing season.

Disease Rating Statement

All varieties were rated for development of leaf rust, stripe rust and Septoria leaf 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 2009, three locations were rated: Raymond, Newton, and Merigold. No diseases were observed at the Newton location. Leaf Rust and Septoria Leaf Blotch were observed at very low levels at Raymond and Merigold. Data analysis was very similar for the varieties at Raymond and Merigold. Severity of each of the diseases was generally less than 5%. With minimal severity of disease among all of the varieties in the trial, determination of levels of susceptibility and resistance was not possible. Therefore, data for disease reaction are not reported for 2009. Keep in mind that variety response to diseases should be evaluated over several years when making decisions on variety selection.

Table 1. Companies supplying wheat brands/varieties entered.		
AgriPro Coker/Syngenta Seeds 778 CR 680 Bay, AR 72411	AgriPro Beretta AgriPro Magnolia AgriPro Oakes	Coker 9553 Coker 9700 Coker 9804 (was D03*9804)
AgSouth Genetics P.O. Box 72246 Albany, GA 31708	AGS 2020 AGS 2026 AGS 2031	AGS 2060 AGS 2035 (was GA-981622-5E35)
B & S Seed Co., Inc. 1283 Hwy. 444 Duncan, MS 38740	Dixie Bell DB 2100 Dixie Bell DB 2125	Dixie Bell DB 2150 Dixie Bell DB 7440
Cache River Valley Seed P.O. Box 10 Cash, AR 72421	Dixie 427 Dixie 454	Dixie 907 Dixie 940
Crop Production Services 443 Allenby Drive Marysville, OH 43040	Dyna-Gro Oglethorpe (was GA-951231-4E25) Dyna-Gro Baldwin (was GA-981621-5E34)	
Cullum Seed P.O. Box 178 Fisher, AR 72429	Armor 360Z (was DK XTJ730) Armor ARX840 (Exp.) Armor ARX6202 (Exp.) Armor Gold	Armor Renegade (was DK XTJ732) Delta King DK 9108 Delta King DK 9577
Delta Grow Seed P.O. Box 219 England, AR 72046	Delta Grow 1600 Delta Grow 4500 Delta Grow 5200	
University of Georgia UGA-CAES-Griffin Campus 1109 Experiment St. Griffin, GA 30223	GA-991209-6E33 (Exp.) GA-991336-6E9 (Exp.) GA-991371-6E12 (Exp.)	
Hornbeck Seed Company P.O. Box 472 DeWitt, AR 72042	HBK 3266 HBK 3443 HBK 3546	
Louisiana State University School of PSS 104 M. B. Sturgis Hall Baton Rouge, LA 70803	LA01110D-150 (Exp.) LA01110D-181-6-B (Exp.) LA01110D-84-1-C (Exp.)	LA01140D-70 (Exp.) LA01158D558-B (Exp.)
Pioneer Hi-Bred Intl. 700 Blvd South SW, Suite 302 Huntsville, AL 35802	Pioneer variety 26R15 Pioneer variety 26R22	Pioneer variety 26R87 Pioneer variety XW07B (Exp.)
Progeny Ag Products 1529 Hwy. 193 Wynne, AR 72396	Progeny 117 Progeny 119 Progeny 130	Progeny 136 Progeny 166 Progeny 185
Terral Seed, Inc. P.O. Box 826 Lake Providence, LA 71254	Terral LA482 Terral LA841 Terral TV8558	Terral TV8170 (was TVX81170) Terral TV8589 (was TVX85089) Terral LA821 (was LA98214D-14-1-2-B)
UniSouth Genetics, Inc. 2640-C Nolensville Rd. Nashville, TN 37211	USG 3209 USG 3295 USG 3409 USG 3555	USG 3592 USG 3665 USG 3725 USG 3770
E. Virginia Ag. Res. & Ext. Center 2229 Menokin Road Warsaw, VA 22572	Jamestown VA Merl	VA04W-90 (Exp.) VA04W-259 (Exp.)

Table 2. Companies supplying oat brands/varieties entered.

Louisiana State University LSU Dept. Of Agronomy 221 M. B. Sturgis Hall Baton Rouge, LA 70803	FL991153FBS-45-1-B-S-B-S1-B-S1 LA03046SBS7-B-S1 (Exp.) LA97006GSB-59-2-4-SBS1 (Exp.)	LA03063SBSBSB-S4 (Exp.) LA99017SBSBSB-275-C-B-S2 (Exp.)
Plantation Seed P.O. Box 398 Newton, GA 39870	Horizon 201 Horizon 270 Horizon LA 976	
Terral Seed Inc. P.O. Box 826 Lake Providence, LA 71254	Terral Trophy	

Table 3. 2009 yield summary of wheat variety trials in Mississippi.

Brand	Variety	Brooksville	Olive Branch	North Avg.	Newton	Raymond	South Avg.	Cleve-land	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*	*bu/A*	*bu/A*
AgriPro Coker	AgriPro Beretta	60.2	28.6	44.4	58.2	72.8	65.5	48.0	60.2	48.8	48.0	51.3	53.7
AgriPro Coker	AgriPro MAGNOLIA	68.9	37.2	53.1	64.4	67.3	65.8	42.5	71.8	52.4	61.0	56.9	58.6
AgriPro Coker	AgriPro Oakes	67.3	42.8	55.1	71.9	86.8	79.3	45.7	58.9	58.3	57.1	55.0	63.1
AgriPro Coker	Coker 9553	69.0	39.3	54.1	65.4	60.3	62.8	44.8	62.1	69.5	59.0	58.8	58.6
AgriPro Coker	Coker 9700	66.6	36.9	51.7	27.6	40.8	34.2	50.0	47.7	65.7	47.2	52.6	46.2
AgriPro Coker	Coker 9804	63.5	35.7	49.6	76.9	72.6	74.7	40.1	62.3	50.3	66.4	54.8	59.7
AGS	AGS 2020	63.7	38.8	51.3	38.2	32.0	35.1	40.3	62.2	53.2	54.0	52.4	46.3
AGS	AGS 2026	61.9	32.3	47.1	30.9	46.7	38.8	47.2	51.0	54.5	53.5	51.5	45.8
AGS	AGS 2031	53.3	32.5	42.9	67.1	76.1	71.6	43.0	62.7	58.9	58.8	55.9	56.8
AGS	AGS 2035	62.2	39.0	50.6	58.3	59.4	58.9	42.3	71.7	56.1	62.5	58.2	55.9
AGS	AGS 2060	60.9	44.3	52.6	64.0	39.2	51.6	46.7	62.6	61.4	59.3	57.5	53.9
Armor	Armor 360Z	65.4	36.4	50.9	58.4	76.4	67.4	44.8	63.8	57.7	56.1	55.6	58.0
Armor	Armor ARX6202	60.4	35.2	47.8	60.5	72.0	66.3	44.0	61.5	52.7	58.8	54.2	56.1
Armor	Armor ARX840	58.9	38.4	48.7	60.5	71.0	65.8	42.3	53.1	52.8	52.1	50.1	54.8
Armor	Armor Gold	63.9	34.6	49.2	71.3	68.1	69.7	41.4	58.3	55.6	53.2	52.1	57.0
Armor	Armor Renegade	56.7	38.5	47.6	59.3	62.8	61.0	44.6	59.3	50.0	59.8	53.4	54.0
Delta Grow	Delta Grow 1600	60.1	36.1	48.1	59.6	72.0	65.8	46.1	59.4	49.2	57.9	53.2	55.7
Delta Grow	Delta Grow 4500	63.5	36.9	50.2	59.8	75.2	67.5	40.0	59.8	48.2	57.3	51.3	56.3
Delta Grow	Delta Grow 5200	61.8	39.8	50.8	64.1	71.4	67.8	43.1	65.3	45.3	58.9	53.2	57.3
Delta King	DK 9108	59.8	37.2	48.5	41.8	46.1	43.9	45.8	57.0	59.0	46.7	52.1	48.2
Delta King	DK 9577	64.4	39.7	52.0	66.9	70.6	68.7	42.6	67.8	56.0	60.1	56.7	59.1
Dixie	Dixie 427	73.2	42.4	57.8	65.5	76.2	70.9	47.0	68.6	55.2	67.4	59.6	62.7
Dixie	Dixie 454	66.9	34.0	50.4	61.2	75.4	68.3	46.9	56.1	62.4	56.3	55.4	58.1
Dixie	Dixie 907	66.6	37.6	52.1	58.3	68.3	63.3	42.8	62.9	51.7	55.0	53.1	56.2
Dixie	Dixie 940	65.3	35.1	50.2	65.1	80.0	72.5	42.1	53.9	66.7	52.6	53.8	58.9
Dixie Bell	DB 2125	64.7	27.0	45.9	60.6	60.3	60.5	41.0	54.6	56.1	57.1	52.2	52.8
Dixie Bell	DB2100	59.3	31.3	45.3	59.5	65.6	62.5	42.4	58.6	47.3	51.0	49.8	52.6
Dixie Bell	DB2150	68.2	31.7	50.0	57.8	54.2	56.0	42.6	65.8	56.2	58.8	55.8	53.9
Dixie Bell	DB7440	70.0	33.8	51.9	60.6	68.3	64.5	40.5	69.0	59.4	63.3	58.1	58.1
Dyna-Gro	Baldwin	63.2	40.7	51.9	70.8	75.5	73.2	45.7	77.8	47.6	64.1	58.8	61.3
Dyna Gro	Oglethorpe	65.0	31.6	48.3	23.6	39.9	31.7	44.8	56.3	57.6	62.1	55.2	45.1
HBK	HBK 3266	69.1	36.4	52.8	71.8	65.7	68.8	47.2	67.8	55.5	63.6	58.5	60.0
HBK	HBK 3443	69.0	32.8	50.9	42.5	56.9	49.7	43.1	61.5	49.8	59.6	53.5	51.4
HBK	HBK 3546	62.7	34.5	48.6	65.9	74.8	70.4	40.9	63.3	39.0	53.2	49.1	56.0
Pioneer	Pioneer variety 26R15	71.0	40.0	55.5	61.9	78.8	70.3	46.2	58.5	55.6	57.5	54.4	60.1
Pioneer	Pioneer variety 26R22	64.9	31.9	48.4	66.8	82.4	74.6	37.7	61.5	55.9	58.9	53.5	58.8
Pioneer	Pioneer variety 26R87	66.9	42.7	54.8	61.8	69.6	65.7	47.5	64.8	65.9	56.7	58.7	59.7
Pioneer	Pioneer variety XW07B	67.3	43.8	55.6	70.9	69.4	70.2	45.6	62.3	51.3	65.8	56.3	60.7
Progeny	Progeny 117	74.1	38.1	56.1	61.1	62.8	61.9	42.7	64.7	54.7	60.7	55.7	57.9
Progeny	Progeny 119	61.9	34.3	48.1	60.9	67.1	64.0	41.9	54.4	55.5	48.9	50.2	54.1
Progeny	Progeny 130	68.6	34.1	51.4	71.1	71.3	71.2	39.3	64.8	51.6	63.0	54.7	59.1
Progeny	Progeny 136	58.9	30.8	44.8	61.9	67.3	64.6	36.9	52.3	49.2	53.1	47.9	52.4
Progeny	Progeny 166	70.7	44.9	57.8	68.2	80.1	74.2	37.4	58.9	61.5	59.8	54.4	62.1
Progeny	Progeny 185	66.9	38.3	52.6	67.5	76.2	71.9	42.2	61.8	57.1	62.3	55.8	60.1
Public	GA-991209-6E33	64.5	39.7	52.1	59.9	48.2	54.1	48.4	65.8	68.2	69.5	63.0	56.4
Public	GA-991336-6E9	72.3	35.2	53.7	63.6	53.5	58.5	43.6	68.0	63.7	60.4	58.9	57.1
Public	GA-991371-6E12	70.3	40.5	55.4	66.4	46.2	56.3	50.1	67.4	55.4	62.4	58.8	56.8

Continued

Table 3 (continued). 2009 yield summary of wheat variety trials in Mississippi.

Brand	Variety	Brooksville	Olive Branch	North Avg.	Newton	Raymond	South Avg.	Cleve-land	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*	*bu/A*	*bu/A*
Public	LA01110D-150	63.1	44.6	53.9	58.2	37.6	47.9	47.6	63.2	63.6	65.0	59.8	53.9
Public	LA01110D-181-6-B	66.6	42.4	54.5	50.8	46.8	48.8	44.8	68.1	61.5	65.3	59.9	54.4
Public	LA01110D-84-1-C	68.2	46.7	57.4	41.7	39.7	40.7	46.3	68.0	59.0	63.2	59.1	52.4
Public	LA01140D-70	53.8	37.0	45.4	50.5	31.8	41.1	43.9	66.8	52.8	65.6	57.3	47.9
Public	LA01158D558-B	56.9	31.3	44.1	49.0	42.5	45.7	34.5	57.1	59.6	51.8	50.7	46.9
Public	LA98214D-14-1-2-B	67.0	35.6	51.3	50.8	40.0	45.4	41.9	55.5	50.0	63.4	52.7	49.8
Public	VA Jamestown	67.1	39.0	53.1	49.2	50.1	49.6	50.5	59.1	71.9	48.5	57.5	53.4
Public	VA Merl	72.1	41.0	56.6	64.8	85.7	75.2	40.5	45.0	61.0	51.7	49.6	60.5
Public	VA04W-259	65.8	36.6	51.2	64.1	82.6	73.3	43.1	60.4	54.0	55.6	53.3	59.3
Public	VA04W-90	65.7	41.9	53.8	49.7	74.7	62.2	47.3	64.0	59.8	63.5	58.7	58.2
Terral	Terral LA482	62.4	35.1	48.8	34.6	48.2	41.4	39.7	51.8	45.8	49.6	46.7	45.6
Terral	Terral LA841	64.0	35.0	49.5	43.1	43.9	43.5	44.7	61.7	62.7	58.6	56.9	50.0
Terral	Terral TV8170	57.9	26.8	42.3	57.9	68.4	63.1	41.3	51.0	54.2	52.7	49.8	51.7
Terral	Terral TV8558	59.3	30.9	45.1	57.3	71.0	64.1	42.9	62.2	59.0	54.1	54.5	54.6
Terral	Terral TV8589	56.9	31.1	44.0	59.7	65.0	62.3	41.3	52.6	51.5	54.2	49.9	52.1
USG	USG 3209	54.2	33.7	44.0	48.3	48.8	48.5	40.6	66.0	48.2	52.3	51.8	48.1
USG	USG 3295	58.1	37.5	47.8	66.8	77.4	72.1	42.2	66.1	61.2	61.2	57.7	59.2
USG	USG 3409	63.6	29.9	46.7	64.5	68.1	66.3	43.1	56.5	55.9	59.3	53.7	55.6
USG	USG 3555	61.5	35.6	48.6	69.7	71.5	70.6	48.3	65.4	66.3	59.8	60.0	59.7
USG	USG 3592	62.1	39.7	50.9	67.3	63.9	65.6	46.2	64.4	49.1	55.8	53.9	56.8
USG	USG 3665	60.6	42.1	51.4	62.7	74.4	68.6	42.0	62.4	51.1	54.6	52.5	57.5
USG	USG 3725	54.4	28.8	41.6	56.6	66.7	61.7	37.2	54.3	49.5	55.1	49.0	50.8
USG	USG 3770	66.0	32.0	49.0	61.0	61.6	61.3	43.5	51.8	48.8	64.7	52.2	54.2
Overal Mean		64.0	36.5	50.3	58.7	63.3	61.0	43.5	61.0	55.7	58.0	53.4	54.9
LSD (.10)		9.7	10.5		11.4	14.8		5.1	20.7	9.9	10.4		
Error degrees of freedom		207	207		206	206		207	207	207	207		
CV (%)		10.7	20.2		13.7	16.5		8.2	12.4	12.7	12.0		
R^2 (%)		42.3	36.6		71.4	71.4		62.9	51.0	52.2	47.4		

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

Brand	Variety	Brooksville	Olive Branch	North Avg.	Newton	Raymond	South Avg.	Cleve-land	Issaquena County	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*
AgriPro Coker	AgriPro Beretta	68.1	45.3	56.7	59.5	70.0	64.8	54.5	72.3	65.1	64.0	62.1
AgriPro Coker	AgriPro MAGNOLIA	81.7	50.3	66.0	65.7	56.3	61.0	51.4	77.8	71.4	66.8	64.9
AgriPro Coker	Coker 9553	73.0	50.1	61.5	65.1	54.5	59.8	55.6	68.6	69.8	64.6	62.4
AgriPro Coker	Coker 9700	75.7	48.0	61.8	43.4	46.8	45.1	55.9	54.1	65.5	58.5	55.6
AgriPro Coker	Coker 9804	68.7	47.0	57.9	65.5	69.5	67.5	52.3	72.3	75.5	66.7	64.4
AGS	AGS 2020	72.4	52.3	62.4	52.9	33.9	43.4	50.5	71.3	71.2	64.3	57.8
AGS	AGS 2060	67.8	59.2	63.5	66.9	41.6	54.3	54.7	71.3	78.0	68.0	62.8
Delta Grow	Delta Grow 1600	65.3	42.8	54.1	57.4	70.0	63.7	50.0	65.2	66.8	60.7	59.7
Delta Grow	Delta Grow 5200	69.4	46.3	57.9	58.3	68.0	63.1	52.7	71.1	69.1	64.3	62.1
Delta King	DK 9108	72.9	54.2	63.6	48.8	50.7	49.7	50.4	62.7	63.2	58.8	57.6
Delta King	DK 9577	72.9	54.1	63.5	64.4	70.3	67.3	51.7	75.3	71.7	66.2	65.8
Dixie	Dixie 427	66.1	49.5	57.8	61.2	74.4	67.8	55.4	78.3	77.6	70.4	66.1
Dixie	Dixie 454	74.1	52.7	63.4	63.9	73.1	68.5	58.7	71.2	69.5	66.5	66.2
Dixie	Dixie 907	71.5	49.2	60.4	58.2	69.2	63.7	52.6	67.4	66.1	62.0	62.0
Dixie Bell	DB 2125	69.6	43.9	56.7	58.8	62.9	60.8	53.6	63.9	67.4	61.6	60.0
Dixie Bell	DB2100	67.7	47.7	57.7	59.4	67.8	63.6	55.3	72.0	69.2	65.5	62.7
Dixie Bell	DB2150	68.8	48.3	58.5	51.6	58.0	54.8	54.3	70.3	70.6	65.0	60.2
Dixie Bell	DB7440	68.3	47.5	57.9	53.5	65.1	59.3	51.3	72.2	72.8	65.4	61.5
HBK	HBK 3266	74.2	47.3	60.8	70.8	61.8	66.3	55.9	78.0	73.9	69.3	66.0
Pioneer	Pioneer variety 26R15	81.0	48.2	64.6	61.6	72.0	66.8	54.1	68.0	70.8	64.3	65.1
Pioneer	Pioneer variety 26R22	74.8	44.8	59.8	60.5	71.3	65.9	53.2	69.1	71.0	64.4	63.5
Pioneer	Pioneer variety 26R87	76.4	51.6	64.0	69.3	62.6	65.9	59.5	73.5	68.3	67.1	65.9
Progeny	Progeny 117	72.6	48.9	60.7	59.8	59.4	59.6	50.3	70.5	72.6	64.5	62.0
Progeny	Progeny 166	71.6	53.4	62.5	64.7	76.7	70.7	51.1	67.6	70.9	63.2	65.1
Progeny	Progeny 185	72.3	48.1	60.2	68.9	69.7	69.3	50.6	71.0	70.2	63.9	64.4
Public	GA-981621-5E34	70.1	53.6	61.9	68.5	64.8	66.6	58.9	85.9	76.2	73.6	68.3

Continued

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

Brand	Variety	Brooksville	Olive Branch	North Avg.	Newton	Raymond	South Avg.	Cleve-land	Issaquena County	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*
Public	GA-981622-5E35	68.3	49.3	58.8	62.3	50.1	56.2	58.1	84.2	75.2	72.5	63.9
Public	LA01140D-70	66.3	50.0	58.2	56.8	38.3	47.5	53.6	74.0	76.4	68.0	59.3
Public	LA98214D-14-1-2-B	75.5	47.7	61.6	53.8	50.1	52.0	53.2	66.6	74.9	64.9	60.3
Public	VA Jamestown	69.1	47.9	58.5	53.2	48.2	50.7	59.4	75.5	65.4	66.8	59.8
Terral	Terral LA482	72.8	43.1	58.0	48.1	46.2	47.1	53.5	55.5	63.0	57.3	54.6
Terral	Terral LA841	72.6	42.4	57.5	53.7	43.2	48.4	56.6	75.3	72.2	68.0	59.4
Terral	Terral TV8170	70.8	48.0	59.4	58.3	67.6	62.9	52.5	66.0	68.1	62.2	61.6
Terral	Terral TV8558	65.5	48.6	57.1	56.5	69.5	63.0	55.3	69.9	65.7	63.7	61.6
Terral	Terral TV8589	65.3	47.1	56.2	54.9	70.4	62.6	51.1	69.6	68.6	63.1	61.0
USG	USG 3209	64.3	46.2	55.3	52.1	49.2	50.6	49.4	72.5	67.6	63.2	57.3
USG	USG 3295	54.2	44.5	49.4	70.2	73.4	71.8	55.8	77.8	72.3	68.6	64.0
USG	USG 3555	59.1	49.8	54.5	72.0	65.8	68.9	56.4	76.7	72.7	68.6	64.6
USG	USG 3592	68.6	49.6	59.1	66.7	68.7	67.7	52.7	71.6	71.3	65.2	64.2
USG	USG 3665	66.1	53.2	59.7	62.7	71.9	67.3	53.2	70.5	65.1	62.9	63.2
USG	USG 3725	62.8	48.7	55.8	51.2	63.7	57.4	50.3	63.9	67.7	60.6	58.3
Overall Mean		70.0	48.8	59.4	59.8	61.4	60.6	53.8	71.0	70.3	65.0	62.1

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

Brand	Variety	Brooksville North	Newton	Raymond	South Avg.	Cleveland	Stoneville	Delta Avg.	State Avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriPro Coker	AgriPro Beretta	75.1	59.0	70.8	68.3	55.0	67.3	61.2	65.4
AgriPro Coker	AgriPro MAGNOLIA	82.2	65.9	68.2	72.1	51.7	73.7	62.7	68.3
AgriPro Coker	Coker 9553	78.2	64.1	66.3	69.5	52.9	75.4	64.2	67.4
AgriPro Coker	Coker 9700	79.0	47.4	47.2	57.9	50.6	69.6	60.1	58.8
AGS	AGS 2060	73.2	64.7	59.9	65.9	53.5	77.1	65.3	65.7
Delta Grow	Delta Grow 1600	71.2	58.0	69.5	66.2	48.6	67.0	57.8	62.9
Delta Grow	Delta Grow 5200	73.1	57.1	69.6	66.6	53.3	70.9	62.1	64.8
Delta King	DK 9108	78.2	53.0	56.2	62.5	50.0	68.2	59.1	61.1
Delta King	DK 9577	78.2	63.7	69.0	70.3	50.3	74.6	62.5	67.2
Dixie	Dixie 427	73.5	60.8	74.2	69.5	56.5	78.7	67.6	68.7
Dixie Bell	DB 2125	75.2	57.0	63.0	65.1	53.6	71.6	62.6	64.1
Dixie Bell	DB7440	75.0	54.7	66.4	65.4	51.3	75.0	63.2	64.5
HBK	HBK 3266	79.0	66.9	71.8	72.6	54.7	74.7	64.7	69.4
Pioneer	Pioneer variety 26R15	82.6	57.5	68.6	69.6	55.7	74.1	64.9	67.7
Pioneer	Pioneer variety 26R22	80.8	59.3	76.3	72.1	53.6	75.7	64.7	69.2
Pioneer	Pioneer variety 26R87	80.1	63.6	71.3	71.7	53.7	71.2	62.4	68.0
Progeny	Progeny 166	74.2	62.2	75.8	70.8	52.0	72.6	62.3	67.4
Progeny	Progeny 185	75.7	66.9	71.7	71.4	48.2	72.9	60.5	67.1
Public	LA98214D-14-1-2-B	78.2	52.9	58.9	63.3	52.1	76.0	64.0	63.6
Terral	Terral LA482	79.9	51.9	52.8	61.6	49.5	68.4	59.0	60.5
Terral	Terral LA841	75.2	53.0	56.3	61.5	54.0	73.6	63.8	62.4
Terral	Terral TV8170	77.1	58.8	69.3	68.4	54.0	68.6	61.3	65.6
Terral	Terral TV8558	73.3	57.7	71.6	67.5	53.9	70.2	62.1	65.3
USG	USG 3209	72.4	55.1	60.3	62.6	49.6	70.7	60.2	61.6
USG	USG 3295	64.5	65.9	77.7	69.4	53.7	74.4	64.1	67.3
USG	USG 3592	76.8	65.1	71.2	71.0	52.8	73.6	63.2	67.9
USG	USG 3725	74.2	55.0	55.7	61.6	50.9	72.5	61.7	61.7
Overall Mean		76.2	59.2	66.3	67.2	52.4	72.5	62.5	65.3

Table 6. Yields of 70 wheat varieties at Todd Williams Farm, Olive Branch (Collin silt loam soil).[1]

Variety	Brand	2008-09 yield	2-year avg.	3-year avg.[2]	Seed weight	Test weight	Date headed	Lodging score[3]	Plant Height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
LA01110D-84-1-C	Public	46.7	—	—	42	55	4/21	1	34
Progeny 166	Progeny	44.9	53.4	—	34	55	4/29	1	36
LA01110D-150	Public	44.6	—	—	48	56	4/23	1	35
AGS 2060	AGS	44.3	59.2	—	36	58	4/24	1	35
Pioneer variety XW07B	Pioneer	43.8	—	—	36	56	4/26	1	35
AgriPro Oakes	AgriPro Coker	42.8	—	—	30	57	4/24	1	32
Pioneer variety 26R87	Pioneer	42.7	51.6	—	45	58	4/21	1	30
LA01110D-181-6-B	Public	42.4	—	—	37	55	4/23	1	33
Dixie 427	Dixie	42.4	49.5	—	32	55	4/24	1	28
USG 3665	USG	42.1	53.2	—	22	52	4/24	1	36
VA04W-90	Public	41.9	—	—	30	55	4/26	1	31
VA Merl	Public	41.0	—	—	38	56	4/26	1	34
Baldwin	Dyna-Gro	40.7	53.6	—	42	56	4/27	1	35
GA-991371-6E12	Public	40.5	—	—	37	57	4/24	1	30
Pioneer variety 26R15	Pioneer	40.0	48.2	—	33	54	4/27	1	30
Delta Grow 5200	Delta Grow	39.8	46.3	—	32	54	4/27	1	34
USG 3592	USG	39.7	49.6	—	31	55	4/23	1	35
DK 9577	Delta King	39.7	54.1	—	23	50	4/24	1	32
GA-991209-6E33	Public	39.7	—	—	36	56	4/22	1	30
Coker 9553	AgriPro Coker	39.3	50.1	—	32	55	4/24	1	29
VA Jamestown	Public	39.0	47.9	—	28	57	4/21	1	29
AGS 2035	AGS	39.0	49.3	—	42	57	4/24	1	35
AGS 2020	AGS	38.8	52.3	—	38	56	4/21	1	30
Armor Renegade	Armor	38.5	—	—	30	54	4/27	1	33
Armor ARX840	Armor	38.4	—	—	26	50	4/26	1	38
Progeny 185	Progeny	38.3	48.1	—	31	54	4/22	1	28
Progeny 117	Progeny	38.1	48.9	—	31	54	4/24	1	31
Dixie 907	Dixie	37.6	49.2	—	31	54	4/26	1	34
USG 3295	USG	37.5	44.5	—	31	56	4/24	1	29
AgriPro MAGNOLIA	AgriPro Coker	37.2	50.3	—	27	55	4/26	1	33
DK 9108	Delta King	37.2	54.2	—	33	55	4/24	1	33
LA01140D-70	Public	37.0	50.0	—	39	57	4/24	1	36
Delta Grow 4500	Delta Grow	36.9	—	—	29	53	4/27	1	35
Coker 9700	AgriPro Coker	36.9	48.0	—	30	55	4/23	1	29
VA04W-259	Public	36.6	—	—	32	54	4/27	1	29
HBK 3266	HBK	36.4	47.3	—	35	56	4/23	1	35
Armor 360Z	Armor	36.4	—	—	24	49	4/28	1	31
Delta Grow 1600	Delta Grow	36.1	42.8	—	29	53	4/26	1	36
Coker 9804	AgriPro Coker	35.7	47.0	—	30	53	4/24	1	35
USG 3555	USG	35.6	49.8	—	36	56	4/24	1	28
Terral LA821	Terral	35.6	47.7	—	37	57	4/23	1	31
Armor ARX6202	Armor	35.2	—	—	24	52	4/27	1	31
GA-991336-6E9	Public	35.2	—	—	37	57	4/24	1	28
Terral LA482	Terral	35.1	43.1	—	32	55	4/24	1	31
Dixie 940	Dixie	35.1	—	—	34	54	4/27	1	33
Terral LA841	Terral	35.0	42.4	—	34	56	4/23	1	27
Armor Gold	Armor	34.6	—	—	36	54	4/24	1	33
HBK 3546	HBK	34.5	—	—	31	57	4/23	1	31
Progeny 119	Progeny	34.3	—	—	26	55	4/28	1	34
Progeny 130	Progeny	34.1	—	—	33	57	4/24	2	33
Dixie 454	Dixie	34.0	52.7	—	33	57	4/27	1	29
DB7440	Dixie Bell	33.8	47.5	—	34	57	4/24	1	30
USG 3209	USG	33.7	46.2	—	36	53	4/23	1	32
HBK 3443	HBK	32.8	—	—	31	53	4/28	1	31
AGS 2031	AGS	32.5	—	—	29	56	4/22	1	32
AGS 2026	AGS	32.3	—	—	31	54	4/21	1	30
USG 3770	USG	32.0	—	—	34	56	4/23	1	34
Pioneer variety 26R22	Pioneer	31.9	44.8	—	34	54	4/27	1	28
DB2150	Dixie Bell	31.7	48.3	—	33	56	4/23	1	35
Oglethorpe	Dyna Gro	31.6	—	—	27	53	4/23	1	30
DB2100	Dixie Bell	31.3	47.7	—	27	52	4/26	1	32
LA01158D558-B	Public	31.3	—	—	31	57	4/23	1	24
Terral TV8589	Terral	31.1	47.1	—	31	53	4/27	1	32
Terral TV8558	Terral	30.9	48.6	—	28	54	4/26	1	29

Continued.

Table 6 (continued). Yields of 70 wheat varieties at Todd Williams Farm, Olive Branch (Collin silt loam soil).[1]

Variety	Brand	2008-09 yield	2-year avg.	3-year avg.[2]	Seed weight	Test weight	Date headed	Lodging score[3]	Plant Height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Progeny 136	Progeny	30.8	—	—	25	49	4/28	1	30
USG 3409	USG	29.9	—	—	27	52	4/23	1	31
USG 3725	USG	28.8	48.7	—	28	52	4/24	1	32
AgriPro Beretta	AgriPro Coker	28.6	45.3	—	30	54	4/26	1	30
DB 2125	Dixie Bell	27.0	43.9	—	33	56	4/28	1	33
Terral TV8170	Terral	26.8	48.0	—	32	55	4/26	1	37
Overall Mean		36.5	48.8	—					
LSD (.10)		10.5							
Error degrees of freedom freedom		207							
CV (%)		20.2							
R^2 (%)		36.6							

[1]Planted November 20, 2008 Harvested June 18, 2009 Soil fertility: pH=6.5; P=H+; K=M
Fertilizer added: N@ 100 lb/A (32% N-Sol) Herbicide: None Previous Crop: soybeans
[2]No 3-year yields.
[3]See "Procedures" for a description of lodging scores.

Table 7. Yields of 70 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).[1]

Variety	Brand	2008-09 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 117	Progeny	74.1	72.6	—	33	54	4/2	1	35
Dixie 427	Dixie	73.2	66.1	73.5	30	53	4/8	1	41
GA-991336-6E9	Public	72.3	—	—	34	56	4/1	1	36
VA Merl	Public	72.1	—	—	38	56	4/11	1	37
Pioneer variety 26R15	Pioneer	71.0	81.0	82.6	29	54	4/12	1	35
Progeny 166	Progeny	71.7	71.6	74.2	34	55	4/12	1	35
GA-991371-6E12	Public	70.3	—	—	38	57	4/1	1	33
DB7440	Dixie Bell	70.0	68.3	75.0	32	53	4/11	1	38
HBK 3266	HBK	69.1	74.2	79.0	33	56	4/7	1	40
HBK 3443	HBK	69.0	—	—	28	55	4/7	1	33
Coker 9553	AgriPro Coker	69.0	73.0	78.2	35	57	4/8	1	35
AgriPro MAGNOLIA	AgriPro Coker	69.9	81.7	82.2	37	54	4/7	1	36
Progeny 130	Progeny	69.6	—	—	35	56	4/11	1	36
LA01110D-84-1-C	Public	68.2	—	—	42	55	4/1	1	34
DB2150	Dixie Bell	68.2	68.8	—	28	53	4/10	1	36
Pioneer variety XW07B	Pioneer	67.3	—	—	29	55	4/15	1	35
AgriPro Oakes	AgriPro Coker	67.3	—	—	28	55	4/11	1	37
VA Jamestown	Public	67.1	69.1	—	32	57	4/2	1	35
Terral LA821	Terral	67.0	75.5	78.2	33	56	4/2	1	34
Pioneer variety 26R87	Pioneer	67.9	76.4	80.1	44	58	4/1	1	33
Progeny 185	Progeny	67.9	72.3	75.7	29	52	4/8	1	33
Dixie 454	Dixie	67.9	74.1	—	31	57	4/11	1	40
Dixie 907	Dixie	67.6	71.5	—	31	54	4/11	1	40
LA01110D-181-6-B	Public	67.6	—	—	37	53	4/2	1	36
Coker 9700	AgriPro Coker	67.6	75.7	79.0	42	56	4/2	1	34
USG 3770	USG	66.0	—	—	31	53	4/6	1	39
VA04W-259	Public	66.8	—	—	29	56	4/11	1	34
VA04W-90	Public	66.7	—	—	29	55	4/6	1	35
Armor 360Z	Armor	65.4	—	—	28	53	4/13	1	42
Dixie 940	Dixie	65.3	—	—	32	53	4/10	1	39
Oglethorpe	Dyna Gro	65.0	—	—	30	53	4/2	1	33
Pioneer variety 26R22	Pioneer	65.9	74.8	80.8	30	53	4/11	1	35
DB 2125	Dixie Bell	65.7	69.6	75.2	31	55	4/11	1	36
GA-991209-6E33	Public	65.5	—	—	39	56	4/3	1	32
DK 9577	Delta King	64.4	72.9	78.2	33	54	4/13	1	37
Terral LA841	Terral	64.0	72.6	75.2	30	53	4/2	1	34
Armor Gold	Armor	64.9	—	—	37	54	4/6	1	37

Continued.

Table 7 (continued). Yields of 70 wheat varieties at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).[1]

Variety	Brand	2008-09 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*
AGS 2020	AGS	64.7	72.4	—	36	55	4/1	1	34
USG 3409	USG	64.6	—	—	32	54	4/10	1	36
Delta Grow 4500	Delta Grow	64.5	—	—	27	52	4/11	1	39
Coker 9804	AgriPro Coker	63.5	68.7	—	30	53	4/10	1	36
Baldwin	Dyna-Gro	63.2	70.1	—	37	52	4/8	1	38
LA01110D-150	Public	63.1	—	—	40	54	4/4	1	34
HBK 3546	HBK	63.7	—	—	31	55	4/10	1	36
Terral LA482	Terral	62.4	72.8	79.9	37	53	4/3	1	35
AGS 2035	AGS	62.2	68.3	—	40	56	4/2	1	39
USG 3592	USG	62.1	68.6	76.8	36	56	4/8	1	40
Progeny 119	Progeny	62.9	—	—	29	54	4/12	1	37
AGS 2026	AGS	62.9	—	—	34	55	4/1	1	31
Delta Grow 5200	Delta Grow	62.8	69.4	73.1	30	53	4/12	1	37
USG 3555	USG	61.5	59.1	—	34	53	4/4	1	28
AGS 2060	AGS	61.9	67.8	73.2	39	56	4/1	1	35
USG 3665	USG	61.6	66.1	—	29	53	4/13	1	33
Armor ARX6202	Armor	60.4	—	—	28	55	4/16	1	34
AgriPro Beretta	AgriPro Coker	60.2	68.1	75.1	35	53	4/17	1	32
Delta Grow 1600	Delta Grow	60.1	65.3	71.2	28	53	4/12	1	35
DK 9108	Delta King	60.8	72.9	78.2	36	54	4/2	1	36
Terral TV8558	Terral	59.3	65.5	73.3	31	54	4/10	1	34
DB2100	Dixie Bell	59.3	67.7	—	31	54	4/12	1	36
Armor ARX840	Armor	59.9	—	—	27	56	4/15	1	36
Progeny 136	Progeny	59.9	—	—	23	52	4/12	1	35
USG 3295	USG	58.1	54.2	64.5	28	54	4/6	1	29
Terral TV8170	Terral	58.9	70.8	77.1	25	53	4/11	1	40
Terral TV8589	Terral	57.9	65.3	—	25	50	4/14	1	34
LA01158D558-B	Public	57.9	—	—	35	56	4/2	1	30
Armor Renegade	Armor	57.7	—	—	26	54	4/17	1	37
USG 3725	USG	54.4	62.8	74.2	27	53	4/11	1	30
USG 3209	USG	54.2	64.3	72.4	36	53	4/2	1	30
LA01140D-70	Public	54.8	66.3	—	34	56	4/3	1	38
AGS 2031	AGS	53.3	—	—	31	53	4/2	1	30
Overall Mean		64.0	70.0	76.2					
LSD (.10)		9.7							
Error degrees of freedom freedom		207							
CV (%)		10.7							
R^2 (%)		42.3							

[1]Planted October 22, 2008 Harvested June 8, 2009 Soil fertility: pH=6.2; P=M; K=M
Fertilizer added: Preplant — 13-13-13 @ 300 lb/A; Topdress — N @ 90 lb/A (34-0-0) on 2-16-09
Herbicide: None Previous crop: Wheat
[2]See "Procedures" for a description of lodging scores.

Table 8. Yields of 70 wheat varieties at Donald Gant Farm, Cleveland (Brittain silt loam soil).[1]

Variety	Brand	2008-09 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*
VA Jamestown	Public	50.5	59.4	—	28	55	4/8	1	36
GA-991371-6E12	Public	50.1	—	—	36	52	4/13	1	39
Coker 9700	AgriPro Coker	50.0	55.9	50.6	32	54	4/14	1	35
GA-991209-6E33	Public	48.4	—	—	32	54	4/12	1	39
USG 3555	USG	48.3	56.4	—	24	52	4/13	1	34
AgriPro Beretta	AgriPro Coker	48.0	54.5	55.0	26	53	4/20	1	37
LA01110D-150	Public	48.6	—	—	38	52	4/15	1	38
Pioneer variety 26R87	Pioneer	47.5	59.5	53.7	36	54	4/11	1	34
VA04W-90	Public	47.3	—	—	24	55	4/12	1	35
HBK 3266	HBK	47.2	55.9	54.7	27	54	4/13	1	35
AGS 2026	AGS	47.2	—	—	28	53	4/12	1	34
Dixie 427	Dixie	47.0	55.4	56.5	26	49	4/15	1	39
Dixie 454	Dixie	47.9	58.7	—	27	54	4/18	1	38
AGS 2060	AGS	47.7	54.7	53.5	32	55	4/16	1	39
LA01110D-84-1-C	Public	46.3	—	—	29	53	4/10	1	37
USG 3592	USG	46.2	52.7	52.8	24	52	4/18	1	37
Pioneer variety 26R15	Pioneer	46.2	54.1	55.7	27	52	4/20	1	36
Delta Grow 1600	Delta Grow	46.1	50.0	48.6	23	53	4/16	1	41
DK 9108	Delta King	46.8	50.4	50.0	31	52	4/16	1	39
Baldwin	Dyna-Gro	46.7	58.9	—	35	54	4/20	1	42
AgriPro Oakes	AgriPro Coker	46.7	—	—	25	56	4/20	1	35
Pioneer variety XW07B	Pioneer	46.6	—	—	27	50	4/16	1	36
Armor 360Z	Armor	45.8	—	—	24	50	4/18	1	36
Coker 9553	AgriPro Coker	45.8	55.6	52.9	33	54	4/15	1	37
LA01110D-181-6-B	Public	45.8	—	—	31	51	4/13	1	36
Oglethorpe	Dyna Gro	45.8	—	—	30	52	4/15	1	32
Terral LA841	Terral	45.7	56.6	54.0	27	51	4/13	1	35
Armor Renegade	Armor	45.6	—	—	25	54	4/18	1	38
Armor ARX6202	Armor	44.0	—	—	22	55	4/22	1	38
LA01140D-70	Public	44.9	53.6	—	32	54	4/14	1	39
GA-991336-6E9	Public	44.6	—	—	33	54	4/13	1	36
USG 3770	USG	44.5	—	—	24	53	4/20	1	37
HBK 3443	HBK	43.1	—	—	22	53	4/16	1	36
Delta Grow 5200	Delta Grow	43.1	52.7	53.3	26	54	4/17	1	39
USG 3409	USG	43.1	—	—	25	52	4/20	1	37
VA04W-259	Public	43.1	—	—	24	54	4/19	1	37
AGS 2031	AGS	43.0	—	—	28	54	4/15	1	36
Terral TV8558	Terral	43.9	55.3	53.9	21	51	4/16	1	38
Dixie 907	Dixie	43.8	52.6	—	25	52	4/18	1	41
Progeny 117	Progeny	43.7	50.3	—	28	53	4/20	1	39
DK 9577	Delta King	43.6	51.7	50.3	22	50	4/17	1	37
DB2150	Dixie Bell	43.6	54.3	—	28	52	4/17	1	41
AgriPro MAGNOLIA	AgriPro Coker	42.5	51.4	51.7	30	53	4/19	1	39
DB2100	Dixie Bell	42.4	55.3	—	27	53	4/19	1	40
AGS 2035	AGS	42.3	58.1	—	31	54	4/12	1	40
Armor ARX840	Armor	42.3	—	—	21	48	4/17	1	38
USG 3295	USG	42.2	55.8	53.7	24	54	4/14	1	33
Progeny 185	Progeny	42.2	50.6	48.2	28	52	4/18	1	38
Dixie 940	Dixie	42.1	—	—	24	52	4/15	1	41
USG 3665	USG	42.0	53.2	—	21	48	4/19	1	38
Progeny 119	Progeny	42.9	—	—	25	54	4/20	1	38
Terral LA821	Terral	42.9	53.2	52.1	28	52	4/14	2	37
Armor Gold	Armor	41.4	—	—	33	55	4/13	1	38
Terral TV8589	Terral	41.3	51.1	—	27	51	4/19	1	39
Terral TV8170	Terral	41.3	52.5	54.0	27	52	4/16	1	38
DB 2125	Dixie Bell	41.0	53.6	53.6	27	52	4/18	1	39
HBK 3546	HBK	41.9	—	—	30	56	4/20	1	38
USG 3209	USG	41.6	49.4	49.6	27	52	4/13	1	36
DB7440	Dixie Bell	40.5	51.3	51.3	28	53	4/16	1	39
VA Merl	Public	40.5	—	—	31	54	4/18	1	37
AGS 2020	AGS	40.3	50.5	—	34	51	4/13	1	38
Coker 9804	AgriPro Coker	40.1	52.3	—	24	52	4/18	1	38
Delta Grow 4500	Delta Grow	40.0	—	—	27	52	4/16	1	40

Continued.

Table 8 (continued). Yields of 70 wheat varieties at Donald Gant Farm, Cleveland (Brittain silt loam soil).[1]

Variety	Brand	2008-09 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 LA482	Terral	40.7	53.5	49.5	30	50	4/15	1	37
Progeny 130	Progeny	39.3	—	—	27	56	4/20	1	36
Pioneer variety 26R22	Pioneer	38.7	53.2	53.6	27	50	4/19	1	37
Progeny 166	Progeny	37.4	51.1	52.0	28	53	4/19	1	41
USG 3725	USG	37.2	50.3	50.9	23	49	4/16	1	38
Progeny 136	Progeny	37.9	—	—	24	49	4/19	1	37
LA01158D558-B	Public	34.5	—	—	25	54	4/14	2	32
Overall Mean		43.5	53.8	52.4					
LSD (.10)		5.1							
Error degrees of freedom freedom		207							
CV (%)		8.2							
R^2 (%)		62.9							

[1]Planted November 5, 2008 Harvested June 9, 2009 Soil fertility: pH=6.2; P=M; K=M
Fertilizer added: 41-0-0-4 @ 125 lb/A on 2-12-09 & 2-25-09 + Ammonium Sulfate @ 100 lb/A on 3-14-09
Herbicide: 2,4-D Amine @ 1 qt/A Insecticide: Mustang Max @ 3.2 oz/A Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 9. Yields of 70 wheat varieties at Todd Heigle Farms, Issaquena County (clay loam soil).[1]

Variety	Brand	2008-09 yield	2-year avg.	3-year avg.[2]	Seed weight	Test weight	Date headed	Lodging score[3]	Plant Height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
Baldwin	Dyna-Gro	77.8	85.9	—	38	55	4/11	1	40
AgriPro MAGNOLIA	AgriPro Coker	71.8	77.8	—	34	53	4/9	1	36
AGS 2035	AGS	71.7	84.2	—	45	54	4/1	1	37
DB7440	Dixie Bell	69.0	72.2	—	31	52	4/8	1	39
Dixie 427	Dixie	68.6	78.3	—	31	52	4/6	1	34
LA01110D-181-6-B	Public	68.1	—	—	36	53	4/4	1	35
LA01110D-84-1-C	Public	68.0	—	—	42	56	3/30	1	36
GA-991336-6E9	Public	68.0	—	—	33	54	4/1	1	30
HBK 3266	HBK	67.8	78.0	—	31	53	4/8	1	34
DK 9577	Delta King	67.8	75.3	—	27	52	4/10	1	33
GA-991371-6E12	Public	67.4	—	—	38	54	4/4	1	34
LA01140D-70	Public	66.8	74.0	—	36	56	3/31	1	37
USG 3295	USG	66.1	77.8	—	34	52	4/6	1	33
USG 3209	USG	66.0	72.5	—	32	52	4/4	1	35
GA-991209-6E33	Public	65.8	—	—	40	54	4/2	1	33
DB2150	Dixie Bell	65.8	70.3	—	29	52	4/12	1	41
USG 3555	USG	65.4	76.7	—	33	52	4/4	1	32
Delta Grow 5200	Delta Grow	65.3	71.1	—	25	53	4/14	1	38
Pioneer variety 26R87	Pioneer	64.8	73.5	—	41	56	4/3	1	34
Progeny 130	Progeny	64.8	—	—	30	55	4/11	1	39
Progeny 117	Progeny	64.7	70.5	—	29	52	4/6	1	36
USG 3592	USG	64.4	71.6	—	31	53	4/9	1	35
VA04W-90	Public	64.0	—	—	31	53	4/4	1	33
Armor 360Z	Armor	63.8	—	—	28	51	4/14	1	35
HBK 3546	HBK	63.3	—	—	34	54	4/6	1	35
LA01110D-150	Public	63.2	—	—	41	53	4/5	1	36
Dixie 907	Dixie	62.9	67.4	—	26	52	4/13	1	41
AGS 2031	AGS	62.7	—	—	28	53	4/6	1	32
AGS 2060	AGS	62.6	71.3	—	32	57	4/4	1	38
USG 3665	USG	62.4	70.5	—	23	49	4/13	1	38
Pioneer variety XW07B	Pioneer	62.3	—	—	30	54	4/16	1	37
Coker 9804	AgriPro Coker	62.3	72.3	—	27	52	4/9	1	34
Terral TV8558	Terral	62.2	69.9	—	28	51	4/12	1	36
AGS 2020	AGS	62.2	71.3	—	35	53	3/29	1	33
Coker 9553	AgriPro Coker	62.1	68.6	—	33	54	4/7	1	34
Progeny 185	Progeny	61.8	71.0	—	25	51	4/12	1	36
Terral LA841	Terral	61.7	75.3	—	30	51	4/4	1	35

Continued.

Table 9 (continued). Yields of 70 wheat varieties at Todd Heigle Farms, Issaquena County (clay loam soil).[1]

Variety	Brand	2008-09 yield	2-year avg.	3-year avg.[2]	Seed weight	Test weight	Date headed	Lodging score[3]	Plant Height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
HBK 3443	HBK	61.5	—	—	26	53	4/11	1	35
Armor ARX6202	Armor	61.5	—	—	25	52	4/16	1	35
Pioneer variety 26R22	Pioneer	61.5	69.1	—	33	51	4/9	1	37
VA04W-259	Public	60.4	—	—	31	55	4/13	1	31
AgriPro Beretta	AgriPro Coker	60.2	72.3	—	28	52	4/17	1	38
Delta Grow 4500	Delta Grow	59.8	—	—	26	53	4/13	1	40
Delta Grow 1600	Delta Grow	59.4	65.2	—	26	52	4/15	1	39
Armor Renegade	Armor	59.3	—	—	22	53	4/17	1	40
VA Jamestown	Public	59.1	75.5	—	31	57	3/31	1	33
Progeny 166	Progeny	58.9	—	—	22	52	4/12	1	42
AgriPro Oakes	AgriPro Coker	58.9	67.6	—	29	55	4/12	1	36
DB2100	Dixie Bell	58.6	72.0	—	24	51	4/17	1	37
Pioneer variety 26R15	Pioneer	58.5	68.0	—	28	52	4/16	1	36
Armor Gold	Armor	58.3	—	—	29	54	4/5	1	39
LA01158D558-B	Public	57.1	—	—	34	55	4/2	1	33
DK 9108	Delta King	57.0	62.7	—	33	54	4/3	1	40
USG 3409	USG	56.5	—	—	23	51	4/13	1	37
Oglethorpe	Dyna Gro	56.3	—	—	25	52	4/5	1	33
Dixie 454	Dixie	56.1	71.2	—	32	56	4/14	1	37
Terral LA821	Terral	55.5	66.6	—	33	54	4/2	1	33
DB 2125	Dixie Bell	54.6	63.9	—	25	52	4/16	1	40
Progeny 119	Progeny	54.4	—	—	29	54	4/14	1	39
USG 3725	USG	54.3	63.9	—	27	50	4/12	1	37
Dixie 940	Dixie	53.9	—	—	32	51	4/8	1	37
Armor ARX840	Armor	53.1	—	—	21	50	4/14	1	39
Terral TV8589	Terral	52.6	69.6	—	25	51	4/16	1	37
Progeny 136	Progeny	52.3	—	—	18	49	4/15	1	37
USG 3770	USG	51.8	—	—	27	51	4/10	1	36
Terral LA482	Terral	51.8	55.5	—	34	52	4/5	1	32
Terral TV8170	Terral	51.0	66.0	—	32	51	4/7	1	39
AGS 2026	AGS	51.0	—	—	31	52	4/6	1	31
Coker 9700	AgriPro Coker	47.7	54.1	—	34	54	3/30	1	33
VA Merl	Public	45.0	—	—	30	54	4/13	1	33
Overall Mean		61.0	71.0	—					
LSD (.10)		20.7							
Error degrees of freedom freedom		207							
CV (%)		12.4							
R^2 (%)		51.0							

[1]Planted October 30, 2008 Harvested June 8, 2009 Soil fertility: pH=6.2; P=M; K=M
Fertilizer added: Topdress — 46-0-0 @ 105 lb/A on 2-9-09 and 2-20-09
Herbicide: Harmony Extra 75 DF @ 0.45 oz/A Previous crop: Corn
[2]No 3-year yields.
[3]See "Procedures" for a description of lodging scores.

Table 10. Yields of 70 wheat varieties at MAFES Delta Branch, Stoneville (Tunica silty clay soil).[1]

Variety	Brand	2008-09 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*
GA-991209-6E33	Public	69.5	—	—	44	56	3/25	1	34
Dixie 427	Dixie	67.4	77.6	78.7	31	54	3/31	1	34
Coker 9804	AgriPro Coker	66.4	75.5	—	30	54	4/1	1	33
Pioneer variety XW07B	Pioneer	65.8	—	—	32	57	4/8	1	33
LA01140D-70	Public	65.6	76.4	—	39	56	3/26	1	33
LA01110D-181-6-B	Public	65.3	—	—	40	54	3/26	1	30
LA01110D-150	Public	65.0	—	—	45	56	3/25	1	31
USG 3770	USG	64.7	—	—	29	54	3/26	1	32
Baldwin	Dyna-Gro	64.1	76.2	—	36	57	4/3	1	37
HBK 3266	HBK	63.6	73.9	74.7	29	56	3/25	1	35
VA04W-90	Public	63.5	—	—	30	54	3/25	1	33
Terral LA821	Terral	63.4	74.9	76.0	32	57	3/26	1	33
DB7440	Dixie Bell	63.3	72.8	75.0	27	55	4/3	1	33
LA01110D-84-1-C	Public	63.2	—	—	38	57	3/25	1	34
Progeny 130	Progeny	63.0	—	—	31	56	4/6	1	34
AGS 2035	AGS	62.5	75.2	—	41	57	3/26	1	40
GA-991371-6E12	Public	62.4	—	—	35	56	3/27	1	36
Progeny 185	Progeny	62.3	70.2	72.9	31	52	4/1	1	32
Oglethorpe	Dyna Gro	62.1	—	—	35	55	3/23	1	28
USG 3295	USG	61.2	72.3	74.4	33	56	3/28	1	34
AgriPro MAGNOLIA	AgriPro Coker	61.0	71.4	73.7	36	55	4/3	1	36
Progeny 117	Progeny	60.7	72.6	—	33	56	3/30	1	33
GA-991336-6E9	Public	60.4	—	—	32	57	3/26	1	35
DK 9577	Delta King	60.1	71.7	74.6	29	54	4/2	1	30
Progeny 166	Progeny	59.8	70.9	72.6	32	56	4/6	1	36
USG 3555	USG	59.8	72.7	—	36	57	3/28	1	34
Armor Renegade	Armor	59.8	—	—	27	56	4/7	1	35
HBK 3443	HBK	59.6	—	—	25	54	3/30	1	33
USG 3409	USG	59.3	—	—	25	54	4/4	1	31
AGS 2060	AGS	59.3	78.0	77.1	32	56	3/26	1	31
Coker 9553	AgriPro Coker	59.0	69.8	75.4	36	56	3/29	1	33
Delta Grow 5200	Delta Grow	58.9	69.1	70.9	30	54	4/7	1	35
Pioneer variety 26R22	Pioneer	58.9	71.0	75.7	28	54	4/4	1	35
AGS 2031	AGS	58.8	—	—	27	55	3/28	1	24
Armor ARX6202	Armor	58.8	—	—	23	54	4/8	1	35
DB2150	Dixie Bell	58.8	70.6	—	30	54	4/3	1	36
Terral LA841	Terral	58.6	72.2	73.6	34	54	3/23	1	33
Delta Grow 1600	Delta Grow	57.9	66.8	67.0	28	55	4/6	1	34
Pioneer variety 26R15	Pioneer	57.5	70.8	74.1	29	54	4/7	1	33
Delta Grow 4500	Delta Grow	57.3	—	—	32	55	4/6	1	35
DB 2125	Dixie Bell	57.1	67.4	71.6	29	55	4/7	1	35
AgriPro Oakes	AgriPro Coker	57.1	—	—	28	56	4/5	1	34
Pioneer variety 26R87	Pioneer	56.7	68.3	71.2	38	58	3/25	1	32
Dixie 454	Dixie	56.3	69.5	—	34	57	4/6	1	34
Armor 360Z	Armor	56.1	—	—	25	52	4/3	1	33
USG 3592	USG	55.8	71.3	73.6	30	55	3/31	1	30
VA04W-259	Public	55.6	—	—	26	56	4/3	1	32
USG 3725	USG	55.1	67.7	72.5	27	54	4/4	1	38
Dixie 907	Dixie	55.0	66.1	—	25	54	4/5	1	36
USG 3665	USG	54.6	65.1	—	27	53	4/2	1	33
Terral TV8589	Terral	54.2	68.6	—	29	54	4/2	1	37
Terral TV8558	Terral	54.1	65.7	70.2	30	55	4/2	1	34
AGS 2020	AGS	54.0	71.2	—	35	57	3/23	1	30
AGS 2026	AGS	53.5	—	—	32	56	3/23	1	25
HBK 3546	HBK	53.2	—	—	35	57	4/4	1	34
Armor Gold	Armor	53.2	—	—	39	56	3/26	1	35
Progeny 136	Progeny	53.1	—	—	26	53	4/7	1	33
Terral TV8170	Terral	52.7	68.1	68.6	32	54	4/1	1	39
Dixie 940	Dixie	52.6	—	—	31	54	4/3	1	38
USG 3209	USG	52.3	67.6	70.7	34	57	3/25	1	30
Armor ARX840	Armor	52.1	—	—	27	53	4/6	1	36
LA01158D558-B	Public	51.8	—	—	34	55	3/25	1	29
VA Merl	Public	51.7	—	—	32	56	4/1	1	33
DB2100	Dixie Bell	51.0	69.2	—	27	56	4/5	1	32

Continued.

Table 10 (continued). Yields of 70 wheat varieties at MAFES Delta Branch, Stoneville (Tunica silty clay soil).[1]

Variety	Brand	2008-09 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 LA482	Terral	49.6	63.0	68.4	32	55	3/26	1	33
Progeny 119	Progeny	48.9	—	—	28	55	4/7	1	36
VA Jamestown	Public	48.5	65.4	—	35	58	3/22	1	30
AgriPro Beretta	AgriPro Coker	48.0	65.1	67.3	27	56	4/8	1	30
Coker 9700	AgriPro Coker	47.2	65.5	69.6	36	56	3/23	1	30
DK 9108	Delta King	46.7	63.2	68.2	30	55	3/24	1	33
Overall Mean		58.0	68.4	69.6					
LSD (.10)		10.4							
Error degrees of freedom freedom		207							
CV (%)		12.0							
R^2 (%)		47.4							

[1]Planted October 28, 2008 Harvested June 2, 2009 Soil fertility: pH=6.5; PM=; K=M
Fertilizer added: Urea @ 225 lb/A on 2-20-09 Herbicide: 2,4-D Amine @ 1 qt/A on 3-5-09 Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 11. Yields of 70 wheat varieties at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam soil).[1]

Variety	Brand	2008-09 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*
Coker 9804	AgriPro Coker	76.9	65.5	—	32	56	4/2	1	40
AgriPro Oakes	AgriPro Coker	71.9	—	—	33	56	4/2	1	37
HBK 3266	HBK	71.8	70.8	66.9	34	56	3/30	1	37
Armor Gold	Armor	71.3	—	—	34	54	4/1	1	36
Progeny 130	Progeny	71.1	—	—	35	57	4/6	1	39
Pioneer variety XW07B	Pioneer	70.9	—	—	28	54	4/10	1	40
Baldwin	Dyna-Gro	70.8	68.5	—	41	54	4/2	1	42
USG 3555	USG	69.7	72.0	—	38	54	4/1	1	31
Progeny 166	Progeny	68.2	64.7	62.2	29	54	4/8	1	42
Progeny 185	Progeny	67.5	68.9	66.9	31	54	4/3	1	35
USG 3592	USG	67.3	66.7	65.1	34	57	4/1	1	42
AGS 2031	AGS	67.1	—	—	36	56	4/1	1	34
DK 9577	Delta King	66.9	64.4	63.7	33	56	4/2	1	36
USG 3295	USG	66.8	70.2	65.9	34	54	4/1	1	33
Pioneer variety 26R22	Pioneer	66.8	60.5	59.3	32	53	4/4	1	36
GA-991371-6E12	Public	66.4	—	—	34	54	3/25	1	37
HBK 3546	HBK	65.9	—	—	31	56	4/1	1	37
Dixie 427	Dixie	65.5	61.2	60.8	26	52	4/2	1	34
Coker 9553	AgriPro Coker	65.4	65.1	64.1	38	56	4/1	1	35
Dixie 940	Dixie	65.1	—	—	31	54	4/4	1	41
VA Merl	Public	64.8	—	—	33	57	4/6	1	37
USG 3409	USG	64.5	—	—	30	54	4/2	1	37
AgriPro MAGNOLIA	AgriPro Coker	64.4	65.7	65.9	39	56	4/1	1	39
Delta Grow 5200	Delta Grow	64.1	58.3	57.1	27	52	4/8	1	42
VA04W-259	Public	64.1	—	—	25	54	4/8	1	33
AGS 2060	AGS	64.0	66.9	64.7	34	57	3/27	1	36
GA-991336-6E9	Public	63.6	—	—	42	56	3/27	1	34
USG 3665	USG	62.7	62.7	—	29	54	4/6	1	36
Pioneer variety 26R15	Pioneer	61.9	61.6	57.5	28	53	4/8	1	36
Progeny 136	Progeny	61.9	—	—	28	52	4/10	1	40
Pioneer variety 26R87	Pioneer	61.8	69.3	63.6	45	58	4/1	1	36
Dixie 454	Dixie	61.2	63.9	—	31	58	4/8	1	35
Progeny 117	Progeny	61.1	59.8	—	33	54	3/30	1	35
USG 3770	USG	61.0	—	—	32	54	3/31	1	37
Progeny 119	Progeny	60.9	—	—	25	54	4/2	1	37
DB7440	Dixie Bell	60.6	53.5	54.7	27	53	4/2	1	43
DB 2125	Dixie Bell	60.6	58.8	57.0	31	54	4/10	1	44
Armor ARX6202	Armor	60.5	—	—	28	54	4/7	1	37

Continued.

Table 11 (cont.). Yields of 70 wheat varieties at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam soil).[1]

Variety	Brand	2008-09 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*
Armor ARX840	Armor	60.5	—	—	26	52	4/8	1	39
GA-991209-6E33	Public	59.9	—	—	37	56	3/25	1	36
Delta Grow 4500	Delta Grow	59.8	—	—	29	53	4/7	1	38
Terral TV8589	Terral	59.7	54.9	—	28	53	4/6	1	37
Delta Grow 1600	Delta Grow	59.6	57.4	58.0	23	53	4/10	1	40
DB2100	Dixie Bell	59.5	59.4	—	24	52	4/8	1	39
Armor Renegade	Armor	59.3	—	—	25	54	4/15	1	37
Armor 360Z	Armor	58.4	—	—	25	53	4/3	1	37
AGS 2035	AGS	58.3	62.3	—	44	58	3/27	1	38
Dixie 907	Dixie	58.3	58.2	—	28	53	4/2	1	40
LA01110D-150	Public	58.2	—	—	36	53	3/25	1	34
AgriPro Beretta	AgriPro Coker	58.2	59.5	59.0	30	54	4/6	1	36
Terral TV8170	Terral	57.9	58.3	58.8	30	52	4/2	1	39
DB2150	Dixie Bell	57.8	51.6	—	28	53	4/4	1	44
Terral TV8558	Terral	57.3	56.5	57.7	28	54	4/2	1	35
USG 3725	USG	56.6	51.2	55.0	28	50	4/10	1	38
LA01110D-181-6-B	Public	50.8	—	—	36	54	3/27	1	36
Terral LA821	Terral	50.8	53.8	52.9	33	54	3/27	1	36
LA01140D-70	Public	50.5	56.8	—	36	54	3/27	2	38
VA04W-90	Public	49.7	—	—	35	56	4/1	1	34
VA Jamestown	Public	49.2	53.2	—	29	54	3/25	1	32
LA01158D558-B	Public	49.0	—	—	35	54	3/27	2	34
USG 3209	USG	48.3	52.1	55.1	36	53	3/27	1	33
Terral LA841	Terral	43.1	53.7	53.0	30	52	3/27	1	33
HBK 3443	HBK	42.5	—	—	29	54	3/30	2	31
DK 9108	Delta King	41.8	48.8	53.0	29	54	3/27	1	32
LA01110D-84-1-C	Public	41.7	—	—	42	56	3/25	2	36
AGS 2020	AGS	38.2	52.9	—	33	54	3/25	3	32
Terral LA482	Terral	34.6	48.1	51.9	32	54	3/27	1	37
AGS 2026	AGS	30.9	—	—	33	52	3/27	2	31
Coker 9700	AgriPro Coker	27.6	43.4	47.4	36	54	3/25	2	32
Oglethorpe	Dyna Gro	23.6	—	—	25	52	3/27	3	32
Overall Mean		58.7	59.8	59.2					
LSD (.10)		11.4							
Error degrees of freedom freedom		206							
CV (%)		13.7							
R^2 (%)		71.4							

[1]Planted October 31, 2008 Harvested May 29, 2009 Soil fertility: pH=6.2; P=H+; K=H+
Fertilizer added: N @ 100 lb/A (34-0-0) on 2-12-09 Herbicide: None Previous crop: Wheat
[2]See "Procedures" for a description of lodging scores.

Table 12. Yields of 70 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).[1]

Variety	Brand	2008-09 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*
AgriPro Oakes	AgriPro Coker	86.8	—	—	31	58	4/7	1	36
VA Merl	Public	85.7	—	—	38	58	4/1	1	39
VA04W-259	Public	82.6	—	—	28	58	4/7	1	35
Pioneer variety 26R22	Pioneer	82.4	71.3	76.3	33	58	4/7	1	39
Progeny 166	Progeny	80.1	76.7	75.8	34	57	4/7	1	36
Dixie 940	Dixie	80.0	—	—	25	56	4/7	1	40
Pioneer variety 26R15	Pioneer	78.8	72.0	68.6	29	56	4/7	1	39
USG 3295	USG	77.4	73.4	77.7	34	57	4/1	2	35
Armor 360Z	Armor	76.4	—	—	24	54	4/1	1	39
Dixie 427	Dixie	76.2	74.4	74.2	31	57	4/1	1	38
Progeny 185	Progeny	76.2	69.7	71.7	30	54	4/7	1	38
AGS 2031	AGS	76.1	—	—	32	58	4/7	2	39

Continued.

Table 12 (continued). Yields of 70 wheat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).[1]

Variety	Brand	2008-09 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*
Baldwin	Dyna-Gro	75.5	64.8	—	34	58	4/1	2	36
Dixie 454	Dixie	75.4	73.1	—	30	58	4/1	1	37
Delta Grow 4500	Delta Grow	75.2	—	—	31	56	4/7	1	45
HBK 3546	HBK	74.8	—	—	35	60	4/1	1	42
VA04W-90	Public	74.7	—	—	33	58	4/7	1	33
USG 3665	USG	74.4	71.9	—	28	58	4/7	1	41
AgriPro Beretta	AgriPro Coker	72.8	70.0	70.8	33	56	4/7	1	35
Coker 9804	AgriPro Coker	72.6	69.5	—	29	58	4/1	1	35
Delta Grow 1600	Delta Grow	72.0	70.0	69.5	30	58	4/7	1	42
Armor ARX6202	Armor	72.0	—	—	25	58	4/7	1	37
USG 3555	USG	71.5	65.8	—	41	58	4/7	3	35
Delta Grow 5200	Delta Grow	71.4	68.0	69.6	28	56	4/1	1	43
Progeny 130	Progeny	71.3	—	—	36	60	4/7	1	40
Armor ARX840	Armor	71.0	—	—	28	54	4/7	1	37
Terral TV8558	Terral	71.0	69.5	71.6	26	57	4/1	1	36
DK 9577	Delta King	70.6	70.3	69.0	26	56	4/7	1	38
Pioneer variety 26R87	Pioneer	69.6	62.6	71.3	45	61	4/7	1	38
Pioneer variety XW07B	Pioneer	69.4	—	—	31	57	4/7	1	38
Terral TV8170	Terral	68.4	67.6	69.3	27	54	4/1	1	40
DB7440	Dixie Bell	68.3	65.1	66.4	33	58	4/7	1	42
Dixie 907	Dixie	68.3	69.2	—	33	56	4/7	1	40
USG 3409	USG	68.1	—	—	32	58	4/1	1	38
Armor Gold	Armor	68.1	—	—	38	57	4/1	2	39
Progeny 136	Progeny	67.3	—	—	28	53	4/7	1	40
AgriPro MAGNOLIA	AgriPro Coker	67.3	56.3	68.2	37	57	4/1	1	36
Progeny 119	Progeny	67.1	—	—	30	57	4/1	1	43
USG 3725	USG	66.7	63.7	55.7	26	54	4/1	2	41
HBK 3266	HBK	65.7	61.8	71.8	36	59	4/1	2	38
DB2100	Dixie Bell	65.6	67.8	—	27	57	4/7	1	40
Terral TV8589	Terral	65.0	70.4	—	29	57	4/1	1	38
USG 3592	USG	63.9	68.7	71.2	32	58	4/1	4	34
Armor Renegade	Armor	62.8	—	—	24	56	4/1	1	40
Progeny 117	Progeny	62.8	59.4	—	30	57	4/1	1	41
USG 3770	USG	61.6	—	—	38	57	4/1	1	36
DB 2125	Dixie Bell	60.3	62.9	63.0	30	57	4/7	1	42
Coker 9553	AgriPro Coker	60.3	54.5	66.3	35	58	4/1	1	37
AGS 2035	AGS	59.4	50.1	—	48	58	4/1	1	40
HBK 3443	HBK	56.9	—	—	36	57	4/1	1	37
DB2150	Dixie Bell	54.2	58.0	—	31	56	4/7	1	41
GA-991336-6E9	Public	53.5	—	—	41	58	4/1	4	29
VA Jamestown	Public	50.1	48.2	—	38	56	4/1	1	34
USG 3209	USG	48.8	49.2	60.3	38	58	4/1	3	35
Terral LA482	Terral	48.2	46.2	52.8	28	50	4/1	4	37
GA-991209-6E33	Public	48.2	—	—	32	56	4/1	3	38
LA01110D-181-6-B	Public	46.8	—	—	36	56	4/1	1	30
AGS 2026	AGS	46.7	—	—	27	58	4/1	3	34
GA-991371-6E12	Public	46.2	—	—	38	57	4/1	4	32
DK 9108	Delta King	46.1	50.7	56.2	32	54	4/1	4	38
Terral LA841	Terral	43.9	43.2	56.3	30	53	4/1	4	31
LA01158D558-B	Public	42.5	—	—	32	58	4/1	1	36
Coker 9700	AgriPro Coker	40.8	46.8	47.2	42	57	4/1	1	35
Terral LA821	Terral	40.0	50.1	58.9	36	57	4/1	1	33
Oglethorpe	Dyna Gro	39.9	—	—	32	54	4/1	4	35
LA01110D-84-1-C	Public	39.7	—	—	40	56	4/1	1	38
AGS 2060	AGS	39.2	41.6	59.9	39	57	4/1	3	38
LA01110D-150	Public	37.6	—	—	42	54	4/7	1	37
AGS 2020	AGS	32.0	33.9	—	30	54	4/1	4	33
LA01140D-70	Public	31.8	38.3	—	34	54	4/1	1	36
Overall Mean		63.3	61.4	66.3					
LSD (.10)		14.8							
Error degrees of freedom freedom		206							
CV (%)		16.5							
R^2 (%)		71.4							

[1]Planted October 30, 2008 Harvested June 1, 2009 Soil fertility: pH=6.0; P=M; K=H
Fertilizer added: Urea @ 200 lb/A Herbicide: None Previous crop: Corn
[2]See "Procedures" for a description of lodging scores.

Table 13. Yields of 70 wheat varieties at Ricky Belk Farm, Minter City (Dubbs loam soil).[1]

Variety	Brand	2008-09 yield	2-year avg.[2]	3-year avg.[2]	Seed weight	Test weight	Date headed	Lodging score[3]	Plant Height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
VA Jamestown	Public	71.9	—	—	23	54	4/2	1	37
Coker 9553	AgriPro Coker	69.5	—	—	27	55	4/6	2	40
GA-991209-6E33	Public	68.2	—	—	26	54	4/6	1	41
Dixie 940	Dixie	66.7	—	—	24	51	4/6	1	42
USG 3555	USG	66.3	—	—	20	52	2/26	2	35
Pioneer variety 26R87	Pioneer	65.9	—	—	28	56	4/2	2	39
Coker 9700	AgriPro Coker	65.7	—	—	26	55	4/2	2	36
GA-991336-6E9	Public	63.7	—	—	21	54	4/10	1	40
LA01110D-150	Public	63.6	—	—	37	55	4/6	2	39
Terral LA841	Terral	62.7	—	—	28	50	4/6	2	38
Dixie 454	Dixie	62.4	—	—	25	56	4/13	1	43
LA01110D-181-6-B	Public	61.5	—	—	33	51	4/2	1	40
Progeny 166	Progeny	61.5	—	—	20	51	4/13	1	44
AGS 2060	AGS	61.4	—	—	25	55	4/6	1	41
USG 3295	USG	61.2	—	—	22	53	4/10	2	35
VA Merl	Public	61.0	—	—	28	57	4/10	1	41
VA04W-90	Public	59.8	—	—	22	50	4/6	1	40
LA01158D558-B	Public	59.6	—	—	23	56	4/6	3	41
DB7440	Dixie Bell	59.4	—	—	24	51	4/10	1	44
Terral TV8558	Terral	59.0	—	—	20	50	4/10	2	42
LA01110D-84-1-C	Public	59.0	—	—	30	53	4/6	1	41
DK 9108	Delta King	59.0	—	—	22	50	4/6	2	45
AGS 2031	AGS	58.9	—	—	21	53	4/6	1	38
AgriPro Oakes	AgriPro Coker	58.3	—	—	19	51	4/10	2	42
Armor 360Z	Armor	57.7	—	—	26	48	4/10	2	42
Oglethorpe	Dyna Gro	57.6	—	—	23	50	4/2	2	42
Progeny 185	Progeny	57.1	—	—	23	51	4/10	1	41
DB2150	Dixie Bell	56.2	—	—	22	52	4/10	1	44
AGS 2035	AGS	56.1	—	—	32	54	4/6	1	41
DB 2125	Dixie Bell	56.1	—	—	23	52	4/13	1	47
DK 9577	Delta King	56.0	—	—	21	49	4/6	1	45
USG 3409	USG	55.9	—	—	22	52	4/10	2	41
Pioneer variety 26R22	Pioneer	55.9	—	—	23	50	4/10	1	41
Pioneer variety 26R15	Pioneer	55.6	—	—	25	52	4/10	1	40
Armor Gold	Armor	55.6	—	—	25	53	4/6	3	41
Progeny 119	Progeny	55.5	—	—	23	56	4/13	1	45
HBK 3266	HBK	55.5	—	—	29	55	4/10	3	44
GA-991371-6E12	Public	55.4	—	—	32	55	4/10	2	41
Dixie 427	Dixie	55.2	—	—	20	48	4/10	3	40
Progeny 117	Progeny	54.7	—	—	17	51	4/10	2	43
AGS 2026	AGS	54.5	—	—	24	53	4/2	2	35
Terral TV8170	Terral	54.2	—	—	18	51	4/6	2	45
VA04W-259	Public	54.0	—	—	22	53	4/13	2	39
AGS 2020	AGS	53.2	—	—	22	53	4/2	2	38
Armor ARX840	Armor	52.8	—	—	21	48	4/4	1	42
LA01140D-70	Public	52.8	—	—	29	56	4/6	2	41
Armor ARX6202	Armor	52.7	—	—	24	52	4/13	1	44
AgriPro MAGNOLIA	AgriPro Coker	52.4	—	—	24	50	4/10	1	45
Dixie 907	Dixie	51.7	—	—	21	50	4/13	1	42
Progeny 130	Progeny	51.6	—	—	21	55	4/10	2	44
Terral TV8589	Terral	51.5	—	—	18	49	4/10	1	41
Pioneer variety XW07B	Pioneer	51.3	—	—	25	53	4/17	3	44
USG 3665	USG	51.1	—	—	21	50	4/10	2	41
Coker 9804	AgriPro Coker	50.3	—	—	21	48	4/10	2	41
Terral LA821	Terral	50.0	—	—	20	52	4/6	2	40
Armor Renegade	Armor	50.0	—	—	18	50	4/17	1	41
HBK 3443	HBK	49.8	—	—	20	47	4/10	2	41
USG 3725	USG	49.5	—	—	23	49	4/10	2	40
Delta Grow 1600	Delta Grow	49.2	—	—	17	50	4/13	2	45
Progeny 136	Progeny	49.2	—	—	20	49	4/10	2	41
USG 3592	USG	49.1	—	—	25	53	4/6	3	42
AgriPro Beretta	AgriPro Coker	48.8	—	—	20	46	4/13	2	41
USG 3770	USG	48.8	—	—	22	51	4/10	2	42
Delta Grow 4500	Delta Grow	48.2	—	—	22	50	4/13	1	45

Continued

Table 13 (continued). Yields of 70 wheat varieties at Ricky Belk Farm, Minter City (Dubbs loam soil).[1]

Variety	Brand	2008-09 yield	2-year avg.[2]	3-year avg.[2]	Seed weight	Test weight	Date headed	Lodging score[3]	Plant Height
		bu/A	*bu/A*	*bu/A*	*g/1000*	*lb/bu*			*in*
USG 3209	USG	48.2	—	—	21	45	4/6	3	38
Baldwin	Dyna-Gro	47.6	—	—	29	53	4/13	1	42
DB2100	Dixie Bell	47.3	—	—	18	50	4/13	2	41
Terral LA482	Terral	45.8	—	—	23	48	4/10	1	42
Delta Grow 5200	Delta Grow	45.3	—	—	18	48	4/13	2	43
HBK 3546	HBK	39.0	—	—	24	51	4/13	1	41
Overall Mean		55.7	—	—					
LSD (.10)		9.9							
Error degrees of freedom freedom		207							
CV (%)		12.7							
R^2 (%)		52.2							

[1]Planted November 4, 2008 Harvested June 3, 2009 Soil fertility: pH=5.8; P=H; K=H
Fertilizer added: Topdress — 41-0-0-4S @ 125 lb/A on 2-2-09; Urea @ 150 lb/A on 3-5-09
Herbicide: None Insecticide: Tombstone @ 2.1 oz/A Previous crop: Corn
[2]No 2- or 3-year yields.
[3]See "Procedures" for a description of lodging scores.

Table 14. Average number of wheat seeds per pound.

Brand/Variety	2008-09 average	2-year average	Brand/Variety	2008-09 average	2-year average
	seeds/lb	*seeds/lb*		*seeds/lb*	*seeds/lb*
AgriPro Beretta	18,335	14,986	HBK 3546	13,974	
AgriPro MAGNOLIA	19,540	15,007	13974	—	
AgriPro Oakes	17,113	—	LA01110D-150 (Exp.)	8,873	—
AGS 2020	11,692	11,848	LA01110D-181-6-B (Exp.)	11,302	—
AGS 2026	12,396	—	LA01110D-84-1-C (Exp.)	10,411	—
AGS 2031	11,762	—	LA011140D-70 (Exp.)	11,453	11,033
AGS 2060	10,936	11,279	LA01158D558-B (Exp.)	12,141	—
Armor 360Z	14,270	—	Pioneer variety 26R15	14,530	13,333
Armor ARX840 (Exp.)	15,000	—	Pioneer variety 26R22	12,025	11,505
Armor ARX6202 (Exp.)	16,200	—	Pioneer variety 26R87	9,019	8,941
Armor Gold	10,950	—	Pioneer variety XW07B (Exp.)	11,494	—
Armor Renegade	16,200	—	Progeny 117	12,086	12,959
Coker 9553	14,142	12,543	Progeny 119	13,312	—
Coker 9700	14,590	12,269	Progeny 130	12,517	—
Coker 9804	16,834	16,041	Progeny 136	14,033	—
Delta Grow 1600	15,066	14,851	Progeny 166	13,100	13,745
Delta Grow 4500	13,321	—	Progeny 185	12,266	12,456
Delta Grow 5200	17,032	15,316	Terral LA482	11,644	11,442
Delta King DK 9108	12,400	11,469	Terral LA821	11,713	11,709
Delta King DK 9577	15,150	13,759	Terral LA841	12,765	12,159
Dixie 427	13,264	13,117	Terral TV8558	14,995	14,583
Dixie 454	12,515	12,302	Terral TV8170	13,878	12,475
Dixie 907	13,695	13,356	Terral TV8589	13,740	13,127
Dixie 940	12,825	—	USG 3209	10,668	10,192
Dixie Bell DB2100	13,118	13,892	USG 3295	12,581	11,973
Dixie Bell DB2125	12,226	13,714	USG 3409	14,237	—
Dixie Bell DB2150	11,957	12,850	USG 3555	10,896	11,049
Dixie Bell DB7440	12,077	13,016	USG 3592	13,147	12,444
Dyna-Gro Oglethorpe	11,143	—	USG 3665	12,690	13,060
Dyna-Gro Baldwin	9,504	9,935	USG 3725	13,939	14,183
AGS 2035	9,919	9,431	USG 3770	14,205	—
GA-991209-6E33 (Exp.)	9,644	—	VA Jamestown	12,257	12,824
GA-991336-6E9 (Exp.)	9,866	—	VA Merl	11,518	—
GA-991371-6E12 (Exp.)	10,381	—	VA04W-90 (Exp.)	12,101	—
HBK 3266	12,775	12,384	VA04W-259 (Exp.)	12,967	—
HBK 3443	12,158	—			

Table 15. Average number of oat seeds per pound.

Brand/Variety	2008-09 average	2-year average	Brand/Variety	2008-09 average	2-year average
	seeds/lb	*seeds/lb*		*seeds/lb*	*seeds/lb*
FL991153FBS-45-1-B-S-B-S1-B-S1	15,756	—	Horizon 201	14,308	13,663
LA03046SBS7-B-S1 (Exp.)	16,348	—	Horizon 270	15,000	14,302
LA97006GSB-59-2-4-SBS1 (Exp.)	15,444	—	Horizon LA 976	15,608	14,875
LA03063SBSBSB-S4(Exp.)	14,164	—	Terral Trophy	13,580	13,134
LA99017SBSBSB-275-C-B-S2 (Exp.)	14,172	—			

Table 16. 2009 yield summary of oat variety trials in Mississippi.

Variety	Brand	Brooksville	Newton	Raymond	Stoneville	Overall Avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Horizon 201	Plantation Seed	138.5	53.2	86.2	103.1	95.3
Horizon 270	Plantation Seed	123.5	81.2	72.9	111.7	97.3
Horizon LA976	Plantation Seed	114.9	57.6	91.1	113.7	94.3
FL99153FBS-45-1-B-S-B-S1-B-S1	Public	116.4	66.9	62.8	99.3	86.3
LA03046SBS7-B-S1	Public	134.1	97.6	79.4	111.2	105.6
LA03063SBSBSB-S4	Public	122.0	45.6	61.7	114.3	85.9
LA97006GSB-59-2-4-SBS1	Public	131.9	87.6	99.3	109.1	107.0
LA99017SBSBSB-275-C-B-S2	Public	121.1	58.5	104.0	103.0	96.6
Terral Trophy	Terral	121.8	67.9	50.6	111.3	87.9
Overall Mean		124.8	76.7	78.6	108.5	97.2
LSD (.10)		15.0	15.3	33.0	17.9	
Error degrees of freedom		24	24	16	24	
CV (%)		7.8	12.9	24.3	10.7	
R^2 (%)		59	77	58	34	

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

Variety	Brand	Brooksville	Newton	Raymond	Stoneville	Overall Avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Horizon 201	Plantation Seed	121.2	49.9	72.3	118.4	90.5
Horizon 270	Plantation Seed	114.2	68.1	77.0	113.8	93.3
Horizon LA976	Plantation Seed	102.3	39.4	78.3	91.1	77.8
Terral Trophy	Terral	111.9	52.1	58.5	117.0	84.9
Overall Mean		114.4	52.4	71.5	107.6	86.6

Table 18. 3-year yield summary of oat variety trials in Mississippi.

Variety	Brand	Brooksville	Newton	Raymond	Stoneville	Overall Avg.
		bu/A	bu/A	bu/A	bu/A	bu/A
Horizon 270	Plantation Seed	104.0	65.2	91.2	105.4	91.5
Terral Trophy	Terral	106.1	50.7	67.6	113.1	84.4
Overall Mean		105.0	57.9	79.4	109.3	87.9

Table 19. Yields of 9 oat varieties at MAFES Black Belt Branch, Brooksville (Brooksville silt clay soil).[1]

Variety	Brand	2008-09 yield	2-Year avg.	3-Year avg.	Test weight	Date headed	Plant height	Lodging score[2]
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*	
Horizon 201	Plantation Seed	138.5	121.2	—	33	4/12	50	1
LA03046SBS7-B-S1	Public	134.1	—	—	30	4/16	44	1
LA97006GSB-59-2-4-SBS1	Public	131.9	—	—	32	4/17	40	1
Horizon 270	Plantation Seed	123.5	114.2	104.0	33	4/11	43	2
LA03063SBSBSB-S4	Public	122.0	—	—	34	4/1	41	1
Terral Trophy	Terral	121.8	119.9	106.1	34	4/6	38	1
LA99017SBSBSB-275-C-B-S2	Public	121.1	—	—	34	4/16	46	1
FL99153FBS-45-1-B-S-B-S1-B-S1	Public	116.4	—	—	33	4/5	45	2
Horizon LA976	Plantation Seed	114.9	102.3	—	34	4/10	44	2
Overall mean		124.8	114.4	105.0				
LSD (.10)		15.0						
Error degrees of freedom		24						
CV (%)		7.8						
R^2 (%)		58.9						

[1]Planted October 22, 2008 Harvested June 8, 2009 Soil fertility: pH=6.6; P=M; K=M
Fertilizer added: Preplant — 13-13-13 @ 300 lb/A; Topdress — N @ 60 lb/A (34-0-0) on 2-16-09 Previous crop: Oats
[2]See "Procedures" for a description of lodging scores.

Table 20. Yields of 9 oat varieties at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam soil).[1]

Variety	Brand	2008-09 yield	2-Year avg.	3-Year avg.	Test weight	Date headed	Plant height	Lodging score[2]
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*	
LA03046SBS7-B-S1	Public	97.6	—	—	33	4/10	49	1
LA97006GSB-59-2-4-SBS1	Public	87.6	—	—	32	4/10	48	1
Horizon 270	Plantation Seed	81.2	68.1	65.2	32	4/7	48	1
Terral Trophy	Terral	67.9	52.1	50.7	30	4/8	48	1
FL99153FBS-45-1-B-S-B-S1-B-S1	Public	66.9	—	—	34	4/12	49	1
LA99017SBSBSB-275-C-B-S2	Public	58.5	—	—	30	4/12	58	1
Horizon LA976	Plantation Seed	57.6	39.4	—	32	4/6	50	1
Horizon 201	Plantation Seed	53.2	49.9	—	30	4/7	52	1
LA03063SBSBSB-S4	Public	45.6	—	—	31	4/1	47	1
Overall mean		76.7	52.4	57.9				
LSD (.10)		15.3						
Error degrees of freedom		24						
CV (%)		12.9						
R^2 (%)		77.2						

[1]Planted October 31, 2008 Harvested May 29, 2009 Soil fertility: pH=6.2; P=H+; K=H+
Fertilizer added: N @ 80 lb/A (34-0-0) on 2-12-09 Previous crop: Oats
[2]See "Procedures" for a description of lodging scores.

Table 21. Yields of 9 oat varieties at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).[1]

Variety	Brand	2008-09 yield	2-Year avg.	3-Year avg.[2]	Test weight	Date headed	Plant height	Lodging score[3]
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*	
LA99017SBSBSB-275-C-B-S2	Public	104.0	—		34	4/7	62	1
LA97006GSB-59-2-4-SBS1	Public	99.3	—	—	32	4/1	53	2
Horizon LA976	Plantation Seed	91.1	78.3	—	33	4/7	47	1
Horizon 201	Plantation Seed	86.2	72.3	—	34	4/7	63	1
LA03046SBS7-B-S1	Public	79.4	—	—	32	4/7	45	4
Horizon 270	Plantation Seed	72.9	77.0	91.2	33	4/7	51	2
FL99153FBS-45-1-B-S-B-S1-B-S1	Public	62.8	—	—	32	4/7	46	4
LA03063SBSBSB-S4	Public	61.7	—	—	33	4/7	46	1
Terral Trophy	Terral	50.6	58.5	67.6	30	4/7	54	4
Overall mean		78.6	71.5	79.4				
LSD (.10)		33.0						
Error degrees of freedom		16						
CV (%)		24.3						
R^2 (%)		57.6						

[1]Planted October 30, 2008 Harvested June 1, 2009 Soil fertility: pH=6.0; P=M; K=H
Fertilizer added: Urea @ 200 lb/A Herbicide: None Previous crop: Corn
[2]No 3-year yields.
[3]See "Procedures" for a description of lodging scores.

Table 22. Yields of 9 oat varieties at MAFES Delta Branch, Stoneville (Tunica silty clay soil).[1]

Variety	Brand	2008-09 yield	2-Year avg.	3-Year avg.	Test weight	Date headed	Plant height	Lodging score[2]
		bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*	
LA03063SBSBSB-S4	Public	114.3	—	—	33	4/8	38	1
Horizon LA976	Plantation Seed	113.7	91.1	—	35	4/7	42	1
Horizon 270	Plantation Seed	111.7	113.8	105.4	29	4/7	38	1
Terral Trophy	Terral	111.3	117.0	113.1	34	4/5	40	1
LA03046SBS7-B-S1	Public	111.2	—	—	33	4/8	36	1
LA97006GSB-59-2-4-SBS1	Public	109.1	—	—	32	3/30	36	1
Horizon 201	Plantation Seed	103.1	118.4	—	32	4/7	43	1
LA99017SBSBSB-275-C-B-S2	Public	103.0		—	33	4/8	44	1
FL99153FBS-45-1-B-S-B-S1-B-S1	Public	99.3	—	—	34	4/9	41	1
Overall mean		108.5	107.6	109.3				
LSD (.10)		17.9						
Error degrees of freedom		24						
CV (%)		10.7						
R^2 (%)		34.4						

[1]Planted October 28, 2008 Harvested June 2, 2009 Soil fertility: pH=6.5; P=M; K=M
Fertilizer added: Urea @ 225 lb/A on 2-20-09 Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

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