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Mississippi WHEAT & OAT

VARIETY TRIALS, 2006

Experiment Station
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Mississippi Agricultural & Forestry Experiment Station
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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 21-22 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 21-22.

Mississippi Wheat and Oat Variety Trials, 2006

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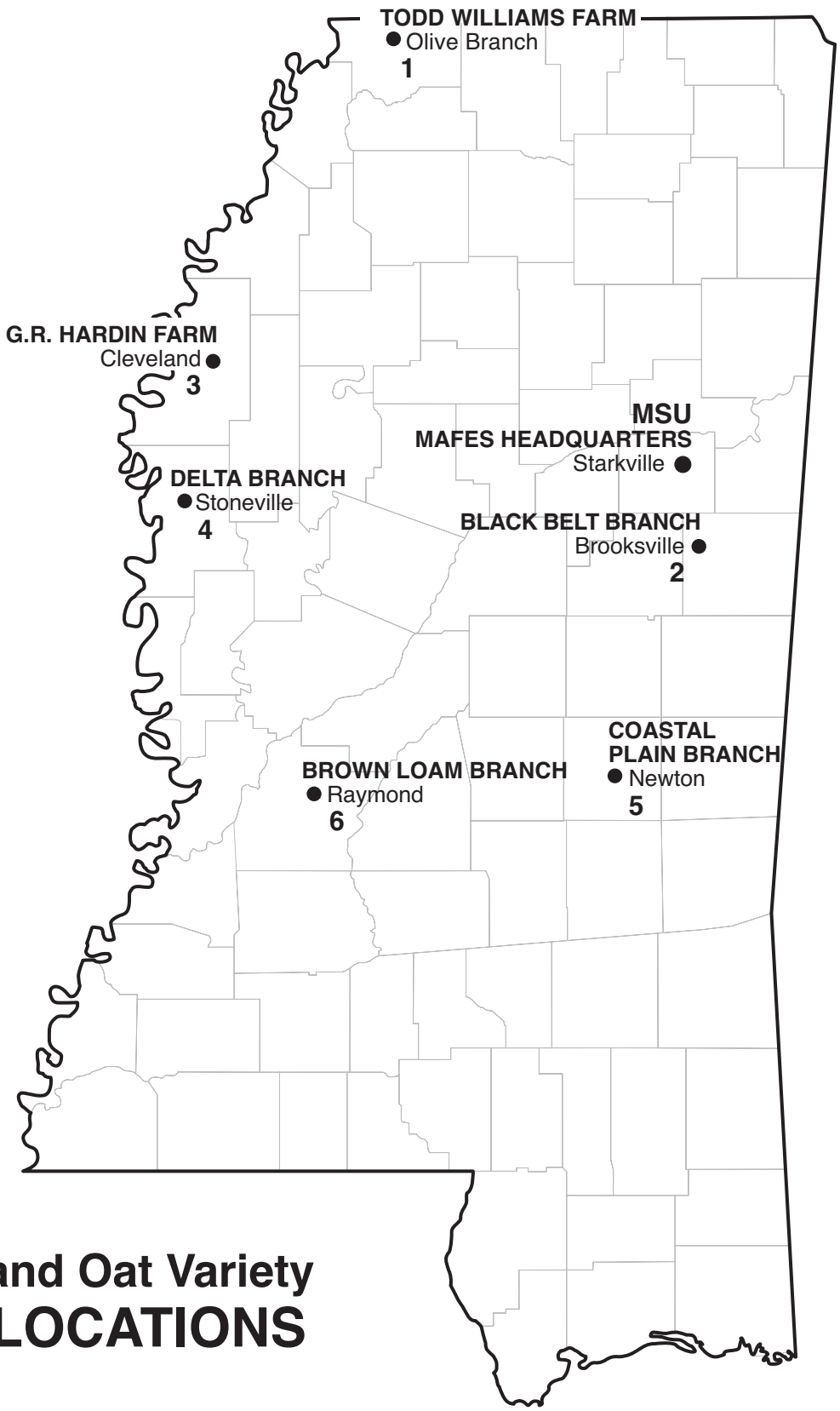

Wheat and Oat Variety
TEST LOCATIONS

Mississippi Wheat and Oat Variety Trials, 2006

Introduction

Small grains are grown throughout Mississippi. Wheat is the primary crop, followed by oats. Wheat and oat variety trials were conducted at six locations in Mississippi in 2005-2006. Wheat yields typically range from 40 to 60 bushels per acre and often produce 60 to 80 bushels per acre under good management and favorable weather conditions. Oat yields from 50 to 80 bushels per acre are common.

Procedures

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

Cultural Practices. Plots were limed and fertilized according to soil test recommendations. Foliar fungicides were not applied at branch stations to insure that varieties were evaluated under natural disease pressure. Fungicides at off-station locations were applied at producer discretion. Herbicides were applied as needed at each location for weed control.

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

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

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

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

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

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

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

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

Important Factors for Producers

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

Seeding Methods. Timely and proper seeding techniques insure rapid, successful establishment of small-grain seedlings. Planting into a moist weed-free seedbed with a grain drill is the preferred seeding method for small grains. Modern drills are capable of seeding in many unprepared (no tillage) as well as traditionally prepared seedbeds. The optimum seeding depth ranges from 1 to 1.5 inches, depending upon soil moisture status and soil type. Deep seeding is recommended when soil moisture is marginally dry, particularly on light, sandy soils. Producers who do not have grain drills may "rough in" small grains by broadcast sowing on recently tilled soil and covering the seed with a light tillage operation, such as a harrow, field cultivator or shallow disking. Seeding rates should be increased approximately 25% when utilizing the "rough in" system to compensate for poorer establishment since seeding depth is random and no firming over the seed occurs with this method. When field conditions are too wet to permit tractor operations, or when over-seeding an existing crop, small grains may be aerially broadcast seeded. Seeding rates should be increased about 75% compared to 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 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 to 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. Wheat variety reactions to prevalent diseases during this growing season are reported in Table 10.

Fertilization. Keep soil pH 6 or higher. Growers should test and apply lime, phosphate, and potash according to soil analysis recommendations. If soybeans follow a wheat crop on heavy soils (clays, clay loams, and silt loams), apply phosphate

and potash for the soybean crop before planting the wheat. This practice is not recommended on sandy soils because potash may be leached away. Wheat generally requires 1.5 to 2 pounds of nitrogen for each bushel of grain produced.

Apply approximately 25% of the nitrogen in the fall. If wheat is grown following corn, grain sorghum, or rice apply 30 to 40 pounds of nitrogen in the fall. Apply the balance of the nitrogen in the spring after dormancy breaks but before the second node is visible, which generally occurs from mid-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*.

Use of Data Tables and Summary Statistics

The yield potential of a given variety cannot be measured 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 estimate 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 an estimate of the amount of unexplained variation in a given trial. This unexplained variation can be the result of variation between plots, with respect to soil type, fertility, insects, diseases, drought stress, etc. Overall, 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 in the trial, with the remaining 10% being unaccounted. The higher the R^2 value, the more precise the trial. The R^2 is generally considered a better measure of precision than the CV for comparison of different trials.

Weather Summary by Location

Location 1 — Todd Williams Farm, Olive Branch. Although the fall was very dry, there was sufficient soil moisture to establish a good stand of wheat. Weather during the growing season was good to excellent for wheat production. Insect and disease pressures were light. Plots were harvested in a timely manner, producing good to excellent yields.

Location 2 — Black Belt Branch, Brooksville. Wheat and oats were planted in dry conditions, but timely rainfall brought the plots up to a good stand. Weather during the growing season was good. Wet weather delayed the topdress nitrogen application, but yields were still good. The weather at harvest was dry.

Location 3 — G.R. Harden Farm, Cleveland. The weather during the growing season was very mild. A drier and warmer than normal spring allowed wheat to mature earlier than normal. Disease pressure was light. Dry conditions allowed for a timely harvest.

Location 4 — Delta Branch, Stoneville. Weather during the early growing season was normal. A mild winter promoted plant growth. The topdress nitrogen application was delayed by wet weather in late January and February. Weather at harvest was hot and dry.

Location 5 — Coastal Plain Branch, Newton. Wheat and oats were planted into good soil moisture, resulting in good germination and growth. The growing season was very mild in January, causing unusual vegetative plant growth, and the wheat was much taller than normal at topdress in mid-February. The mild weather during the growing season resulted in little disease pressure. A severe thunderstorm, containing strong winds, caused a great deal of lodging in the oat plots. The plots were harvested on time.

Location 6 — Brown Loam Branch, Raymond. Wheat was planted into a moist, well-drained seedbed. Weather conditions during the growing season were normal. Stripe rust and insect pressure were light. Roundup drift in the first replication caused injury in some plots; therefore, this data was not utilized in the statistical analysis. Wheat was harvested in near ideal weather conditions.

Table 1. Wheat yields at Todd Williams Farm, Olive Branch (Collin silt loam soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield[2]	3-Year avg. yield[2]	Test weight	Seed weight	Date headed	Plant height	Lodging score[3]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
Terral TV8558	110.3	—	—	55	29	04/16	34	1
Pioneer variety 26R22	109.7	—	—	57	42	04/15	32	1
DK 7710	109.4	—	—	58	32	04/17	39	1
DK 9577	108.7	—	—	56	32	04/12	34	1
Dixie DX989	107.1	—	—	58	30	04/17	34	1
AgriPro Coker 9553	106.5	—	—	60	43	04/10	31	1
USG 3592	106.4	—	—	59	32	04/13	36	1
USG 3209	105.8	—	—	57	40	04/11	32	1
AgriPro Coker Beretta	103.9	—	—	58	35	04/15	32	1
Pioneer variety 26R15	103.6	—	—	58	34	04/12	34	1
Terral TVX8332	103.4	—	—	57	31	04/15	35	1
USG 3350	103.2	—	—	58	32	04/14	35	1
Progeny 185	102.0	—	—	57	34	04/12	35	1
GA-951395-3E25	101.4	—	—	60	36	04/12	31	1
Terral TVX8331	101.3	—	—	55	40	04/12	34	1
Dixie Bell DB2150	99.3	—	—	58	33	04/10	36	1
Dixie 500	99.2	—	—	58	31	04/17	34	1
Delta Grow 1600	99.2	—	—	56	30	04/14	35	1
LA95135D54-2-3-C	98.7	—	—	57	37	04/10	34	1
Armor 260Z	98.6	—	—	56	30	04/17	33	1

Continued.

Table 1 (continued). Wheat yields at Todd Williams Farm, Olive Branch (Collin silt loam soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield[2]	3-Year avg. yield[2]	Test weight	Seed weight	Date headed	Plant height	Lodging score[3]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
AgriPro Coker Panola	97.8	—	—	57	33	04/11	33	1
USG 3244	97.8	—	—	57	31	04/14	36	1
DK 7830	97.5	—	—	58	29	04/13	39	1
Vigoro Dominion	97.4	—	—	56	32	04/11	31	1
DK 9410	96.8	—	—	57	32	04/12	38	1
LA97113UC-124-3-B	96.5	—	—	61	41	04/11	35	1
Progeny 166	96.3	—	—	57	32	04/16	36	1
Terral TVX8660	96.3	—	—	55	29	04/17	32	1
Armor AXR 5110	95.9	—	—	57	32	04/16	37	1
Delta Grow 5200	95.7	—	—	55	30	04/13	36	1
Dixie 900	95.4	—	—	59	31	04/17	37	1
AgriPro Coker Natchez	95.4	—	—	56	37	04/17	36	1
Dixie Bell DB2125	95.3	—	—	58	31	04/14	34	1
Terral TVX83H504	94.9	—	—	57	32	04/16	35	1
Armor 2010	94.7	—	—	58	28	04/16	36	1
DK GR9108	94.4	—	—	58	37	04/17	35	1
AgriPro Coker D01-7759	94.4	—	—	57	37	04/12	35	1
AGS2060	93.9	—	—	60	38	04/11	36	1
Vigoro McIntosh	92.7	—	—	58	34	04/12	36	1
Armor 3035	92.6	—	—	57	30	04/12	36	1
UGA 96229-3A41	92.4	—	—	58	35	04/16	30	1
Armor 3330	92.2	—	—	59	31	04/16	35	1
Pioneer variety XW04C	92.1	—	—	62	47	04/10	33	1
AGS 2000	91.7	—	—	59	42	04/10	34	1
Delta Grow 4100	91.7	—	—	58	30	04/16	35	1
GA-951395-3A31	91.7	—	—	59	32	04/12	32	1
Armor 3015	90.9	—	—	57	33	04/15	34	1
Progeny P196	90.6	—	—	58	37	04/15	30	1
Delta Grow 4500	90.1	—	—	58	34	04/13	38	1
UGA 951079-2E31	89.6	—	—	60	35	04/10	35	1
AR Pat	89.6	—	—	58	35	04/10	37	1
Dixie 9512	89.6	—	—	58	33	04/15	35	1
Dixie Bell DB3440	89.6	—	—	57	38	04/19	32	1
GA-96229-3E39	89.1	—	—	60	32	04/13	36	1
Progeny 133	88.9	—	—	57	29	04/15	35	1
UGA 951216-2E26	88.3	—	—	59	40	04/11	34	1
Terral TV8466	88.1	—	—	57	36	04/17	34	1
Dixie Bell DB1170	87.8	—	—	57	32	04/11	35	1
Progeny 110	87.1	—	—	56	32	04/12	36	1
Terral LA841	86.7	—	—	57	32	04/10	34	1
Progeny 145	85.9	—	—	57	27	04/14	36	1
HBK 3266	82.2	—	—	57	29	04/14	34	1
FL91226	78.6	—	—	55	38	04/14	31	1
LA98094BUB-58-5-B	77.1	—	—	58	33	04/09	30	1
Fleming	65.3	—	—	57	34	04/09	33	1
Overall Mean	95.0	—	—					
LSD (.10)	9.9	—	—					
Error degrees of freedom	192	—	—					
CV (%)	8.9	—	—					
R^2 (%)	58	—	—					

[1]Planted Oct. 17, 2005 Harvested June 5, 2006 Soil fertility: pH=6.3; P=H; K=H
Fertilizer added: Preplant — 8-14-32 @ 400 lb/A; Topdress — N @ 80 lb/A
Herbicide: None Previous crop: Soybeans
[2]No 2- or 3-year yields.
[3]See "Procedures" for a description of lodging scores.

Table 2. Wheat yields at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
Pioneer variety 26R22	105.7	96.6	—	62	36	04/17	36	1
Dixie Bell DB1170	96.9	89.7	—	60	31	04/12	36	1
Armor AXR 5110	96.5	—	—	60	28	04/12	36	1
DK 9577	95.6	94.1	94.0	60	28	04/17	34	1
Terral TVX8331	93.6	—	—	60	37	03/20	36	1
Armor 3330	93.4	91.7	88.9	59	30	04/14	35	1
Progeny 166	93.0	93.9	90.0	60	30	03/20	36	1
Armor 2010	92.8	87.6	—	58	30	03/20	37	1
Armor 3015	92.6	88.8	—	60	31	04/12	32	1
Terral TV8558	92.2	89.6	—	60	30	04/10	35	1
Pioneer variety 26R15	92.1	93.5	94.1	61	30	04/12	33	1
AGS 2000	91.7	71.3	81.3	61	34	04/28	36	2
DK 7710	91.0	87.3	83.3	60	33	04/12	35	1
USG 3244	90.7	—	—	61	28	04/10	31	1
Dixie Bell DB2125	90.5	89.3	—	60	29	04/07	35	1
USG 3209	90.3	81.3	86.7	61	34	03/31	32	1
AgriPro Coker D01-7759	90.2	—	—	60	34	04/12	35	1
Dixie Bell DB2150	89.6	88.0	—	60	27	03/20	37	1
DK 7830	89.4	86.7	84.0	60	31	03/20	37	1
Delta Grow 4500	89.3	88.5	89.2	60	30	03/20	38	1
Delta Grow 4100	89.2	89.1	—	60	30	04/12	36	1
Progeny 110	88.9	94.8	90.3	61	30	04/12	39	1
Terral TV8466	88.6	88.8	88.4	60	30	03/20	35	1
AgriPro Coker Natchez	88.1	91.1	87.7	57	35	04/10	34	1
Terral TVX8332	88.0	—	—	60	29	03/20	39	1
DK 9410	88.0	86.7	84.0	60	32	04/10	39	1
Progeny P196	87.8	—	—	60	30	03/20	35	1
Terral LA841	87.3	80.7	82.9	60	30	03/20	35	1
Delta Grow 1600	87.0	—	—	60	28	04/12	35	1
USG 3350	86.9	96.0	89.2	61	31	04/17	39	1
Progeny 133	86.6	96.7	89.4	60	30	04/12	39	1
AgriPro Coker Panola	86.6	84.1	88.9	59	30	03/31	30	1
HBK 3266	86.5	84.6	90.4	62	32	03/31	35	2
Fleming	86.0	—	—	63	32	04/17	32	1
Vigoro Dominion	85.8	82.6	—	58	26	03/20	30	1
Armor 260Z	85.7	91.4	—	59	28	03/20	31	1
AgriPro Coker Beretta	85.6	90.6	92.1	60	29	03/31	32	1
Dixie Bell DB3440	84.9	—	—	58	27	04/12	34	1
Dixie DX989	84.4	—	—	60	31	03/31	35	1
Dixie 500	84.1	—	—	60	31	04/10	32	1
Terral TVX83H504	84.0	—	—	60	28	04/17	38	1
GA-951395-3E25	83.7	—	—	60	28	03/26	27	1
Delta Grow 5200	83.6	83.0	—	60	31	04/17	37	1
AgriPro Coker 9553	82.9	82.3	—	60	32	03/30	32	1
GA-951395-3A31	82.3	69.4	—	61	31	04/12	30	1
AR Pat	82.2	76.5	79.3	62	31	04/12	34	1
Progeny 145	82.0	89.0	88.7	60	28	03/20	37	1
Progeny 185	82.0	83.1	—	59	32	03/31	34	1
Dixie 9512	81.0	85.9	91.0	59	27	04/12	37	1
GA-96229-3E39	80.8	—	—	60	32	03/20	33	1
USG 3592	80.5	83.5	85.7	62	32	03/31	36	1
Dixie 900	80.2	90.0	91.4	60	33	04/12	36	1
DK GR9108	80.2	78.0	76.2	58	32	04/12	37	1
Armor 3035	79.6	79.5	79.9	59	28	04/17	34	1
UGA 96229-3A41	79.5	87.3	—	59	30	04/12	33	1
FL91226	78.9	—	—	58	35	04/17	36	1
Terral TVX8660	78.8	—	—	60	26	03/20	35	1
AGS2060	77.3	—	—	63	34	04/17	35	1
UGA 951216-2E26	76.0	80.9	—	57	32	04/07	34	1
Pioneer variety XW04C	74.6	—	—	63	42	04/10	34	1

Continued.

Table 2 (continued). Wheat yields at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
LA98094BUB-58-5-B	74.3	—	—	61	30	04/12	29	1
LA95135D54-2-3-C	73.2	81.9	—	60	33	04/10	34	1
Vigoro McIntosh	73.2	71.9	76.2	60	30	04/12	35	1
LA97113UC-124-3-B	71.9	63.3	—	62	37	04/12	34	1
UGA 951079-2E31	60.4	—	—	59	25	04/17	35	1
Overall Mean	85.5	85.8	86.8					
LSD (.10)	12.0	11.5	8.5					
Error degrees of freedom	192	264	233					
CV (%)	12.0	16.3	14.5					
R^2 (%)	44	47	50					

[1]Planted Oct. 20, 2005 Harvested June 1, 2006 Soil fertility: pH=6.4; P=M ; K=M
Fertilizer added: Preplant — 13-13-13 @ 300 lb/A; Topdress — N @ 90 lb/A (3/16/06)
Herbicide: None Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 3. Wheat yields at G.R. Harden Farm, Cleveland (Forestdale silt loam soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
Pioneer variety 26R15	109.4	97.8	93.0	57	29	04/13	38	1
Pioneer variety 26R22	108.3	111.0	—	56	30	04/12	38	1
AgriPro Coker Natchez	105.5	96.0	89.6	54	33	04/12	38	1
Delta Grow 5200	104.7	101.9	—	57	28	04/12	35	1
Dixie Bell DB2125	104.5	99.7	—	56	29	04/12	40	1
Progeny P196	104.3	—	—	57	30	04/11	33	1
USG 3592	103.8	87.8	79.5	59	33	04/10	38	2
USG 3244	103.7	—	—	58	30	04/13	38	2
Armor AXR 5110	103.5	—	—	56	27	04/12	36	1
USG 3350	103.2	100.0	96.3	58	30	04/11	39	2
Dixie DX989	101.9	—	—	56	25	04/13	40	3
DK 9577	101.8	100.6	97.3	56	29	04/12	33	2
Terral TVX83H504	101.0	—	—	58	31	04/14	38	2
DK 7830	100.9	95.3	89.9	59	28	04/09	40	2
DK 9410	100.8	99.1	93.8	57	30	04/12	38	2
DK 7710	99.4	100.3	91.3	58	29	04/13	38	3
DK GR9108	99.0	94.3	90.4	54	30	04/18	35	2
Armor 260Z	99.0	101.0	—	56	27	04/09	40	3
Progeny 185	99.0	89.7	—	56	30	04/09	34	2
USG 3209	98.8	89.1	85.7	57	35	04/06	35	2
AgriPro Coker Beretta	98.5	95.8	90.2	55	25	04/15	36	2
AgriPro Coker D01-7759	98.2	—	—	57	31	04/10	42	1
Progeny 133	98.2	97.2	91.9	57	29	04/10	40	1
Pioneer variety XW04C	97.7	—	—	61	43	04/06	35	1
Terral TVX8332	97.6	—	—	59	27	04/11	38	1
UGA 951216-2E26	97.2	107.2	—	58	30	04/06	34	2
Delta Grow 1600	96.3	—	—	55	23	04/12	34	2
Delta Grow 4500	96.0	92.3	88.9	57	29	04/12	36	1
AgriPro Coker Panola	95.8	100.6	93.1	57	27	04/09	34	2
GA-96229-3E39	95.8	—	—	56	30	04/09	39	2
Terral TV8558	95.7	95.3	—	58	30	04/10	37	2
UGA 96229-3A41	95.5	105.0	—	55	30	04/09	32	2
Terral TVX8331	95.3	—	—	57	31	04/10	38	2
Progeny 145	94.7	92.2	88.7	56	27	04/09	40	2
Armor 3330	94.4	93.0	90.0	58	30	04/09	42	3
Dixie Bell DB3440	94.3	—	—	56	28	04/15	40	3

Continued.

Table 3 (continued). Wheat yields at G.R. Harden Farm, Cleveland (Forestdale silt loam soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
Dixie Bell DB1170	94.3	89.2	—	57	29	04/10	38	1
Progeny 166	94.2	94.3	91.9	57	29	04/10	40	1
Dixie 9512	93.7	95.5	92.1	58	30	04/04	43	3
AgriPro Coker 9553	93.6	100.3	—	60	36	04/06	38	1
Dixie Bell DB2150	93.5	93.3	—	57	30	04/09	39	2
Dixie 900	93.1	93.7	93.1	58	29	04/10	43	2
GA-951395-3E25	93.1	—	—	57	26	04/08	32	1
Progeny 110	92.9	91.1	89.2	56	30	04/10	37	1
AGS2060	92.7	—	—	60	34	04/06	38	2
AGS 2000	92.7	77.4	73.4	58	35	04/05	41	2
Armor 3015	91.9	91.9	—	58	27	04/06	39	3
Terral LA841	91.5	102.2	98.8	57	32	04/05	34	2
Terral TV8466	91.1	96.1	88.3	58	32	04/13	35	2
Delta Grow 4100	91.0	94.7	—	59	28	04/11	36	1
Armor 3035	90.7	89.3	84.6	57	30	04/10	42	3
Vigoro Dominion	90.0	88.9	—	59	27	04/06	32	2
GA-951395-3A31	88.5	—	—	58	26	04/08	31	1
HBK 3266	88.2	73.3	72.2	57	31	04/07	38	3
AR Pat	87.3	89.3	87.7	57	27	04/15	42	1
LA95135D54-2-3-C	87.0	90.8	—	56	31	04/08	36	3
Armor 2010	86.9	92.0	—	58	30	04/08	42	3
LA97113UC-124-3-B	83.7	92.5	—	59	35	04/09	35	1
Dixie 500	80.0	—	—	58	28	04/10	42	2
Vigoro McIntosh	79.9	86.3	83.6	58	29	04/06	38	2
LA98094BUB-58-5-B	79.9	—	—	57	28	04/06	30	2
Fleming	78.4	—	—	59	29	04/05	33	1
Terral TVX8660	75.8	—	—	53	26	04/15	34	3
UGA 951079-2E31	75.3	92.6	—	57	26	04/05	38	3
FL91226	74.0	—	—	52	31	04/08	38	2
Overall Mean	94.4	94.6	89.1					
LSD (.10)	10.8	8.6	6.6					
Error degrees of freedom	192	264	234					
CV (%)	9.8	11.0	11.0					
R^2 (%)	53	60	66					

[1]Planted Oct. 27, 2005 Harvested May 31, 2006 Soil fertility: pH=7.1; P=H; K=H
Fertilizer added: 21-0-0 @ 100 lb/A (12/12/05); 41-0-0 @ 150 lb/A (1/26/06); 100 lb/A (3/1/06)
Insecticide: Methyl parathion @ 0.5 lb/A (4/27/06)
Herbicide: Harmony Extra @ 4 oz/A + Crop Oil @ 1 pt/A (3/3/06) Previous crop: Corn
[2]See "Procedures" for a description of lodging scores.

Table 4. Wheat yields at MAFES Delta Branch, Stoneville (Sharkey clay soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield[2]	3-Year avg. yield[2]	Test weight	Seed weight	Date headed	Plant height	Lodging score[3]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
Pioneer variety 26R22	99.3	—	—	56	29	04/05	33	3
GA-951395-3E25	94.6	—	—	58	26	04/02	29	1
AGS2060	92.6	—	—	58	29	04/01	31	2
Vigoro Dominion	92.2	—	—	56	28	04/02	29	1
AgriPro Coker D01-7759	92.0	—	—	57	33	04/03	28	1
Terral TVX8331	91.2	—	—	56	34	04/05	28	1
GA-951395-3A31	91.1	—	—	58	33	04/02	28	2
DK 7710	88.9	—	—	57	26	04/06	33	2
AgriPro Coker Natchez	88.0	—	—	57	33	04/03	32	1
AR Pat	87.0	—	—	56	26	04/09	31	1
AgriPro Coker 9553	86.8	—	—	58	32	04/02	28	1
Pioneer variety 26R15	85.8	—	—	55	28	04/05	26	2
HBK 3266	85.7	—	—	58	28	04/02	30	2

Continued.

Table 4 (continued). Wheat yields at MAFES Delta Branch, Stoneville (Sharkey clay soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield[2]	3-Year avg. yield[2]	Test weight	Seed weight	Date headed	Plant height	Lodging score[3]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
AgriPro Coker Panola	85.3	—	—	55	30	04/02	28	2
LA98094BUB-58-5-B	84.7	—	—	57	28	04/02	24	2
AGS 2000	84.1	—	—	58	36	04/02	31	1
AgriPro Coker Beretta	84.1	—	—	55	27	04/09	29	1
DK GR9108	82.3	—	—	57	28	04/01	29	2
Dixie DX989	82.3	—	—	55	26	04/07	29	1
USG 3592	81.5	—	—	57	28	04/02	27	2
Progeny 185	80.8	—	—	54	23	04/03	26	1
Progeny P196	79.6	—	—	55	27	04/03	24	1
Dixie Bell DB2150	79.1	—	—	56	24	04/05	30	2
Terral TV8466	78.6	—	—	55	29	04/04	31	2
UGA 96229-3A41	78.5	—	—	57	32	04/01	30	1
Delta Grow 1600	78.4	—	—	55	25	04/08	31	1
USG 3244	78.3	—	—	55	25	04/05	31	2
Terral TV8558	78.0	—	—	55	24	04/04	28	1
DK 9577	78.0	—	—	55	25	04/04	28	2
Dixie Bell DB2125	77.9	—	—	54	23	04/05	32	2
Progeny 166	77.8	—	—	55	24	04/05	32	2
USG 3350	77.0	—	—	55	26	04/05	30	2
Terral TVX8332	76.1	—	—	55	23	04/05	30	2
Armor 260Z	75.5	—	—	56	24	04/03	28	1
Dixie 500	74.0	—	—	55	27	04/13	32	2
GA-96229-3E39	73.8	—	—	57	34	04/01	29	2
Armor 2010	73.5	—	—	55	25	04/01	32	3
LA95135D54-2-3-C	73.5	—	—	56	35	04/02	30	2
Fleming	73.3	—	—	58	29	04/01	29	2
Delta Grow 4100	73.3	—	—	60	28	04/06	32	2
Armor 3035	73.1	—	—	55	24	04/06	34	2
DK 7830	72.7	—	—	55	25	04/05	34	3
LA97113UC-124-3-B	71.5	—	—	58	33	04/03	29	1
Armor AXR 5110	71.1	—	—	56	25	04/07	33	2
Dixie 900	70.7	—	—	55	23	04/09	31	2
Armor 3015	70.7	—	—	55	23	04/02	31	3
FL91226	69.9	—	—	54	34	04/01	34	3
Delta Grow 5200	67.8	—	—	55	25	04/08	35	2
Pioneer variety XW04C	67.6	—	—	60	39	03/30	27	2
Vigoro McIntosh	66.8	—	—	56	27	04/03	27	1
DK 9410	66.2	—	—	55	25	04/08	30	2
Progeny 145	66.1	—	—	54	22	04/05	30	3
Armor 3330	66.1	—	—	54	26	04/05	30	2
Terral TVX83H504	66.1	—	—	53	21	04/10	32	2
Progeny 133	65.4	—	—	54	22	04/06	29	2
Delta Grow 4500	64.8	—	—	54	28	04/05	32	2
Progeny 110	64.5	—	—	54	23	04/06	31	2
Dixie Bell DB3440	63.9	—	—	54	23	04/08	32	2
Dixie 9512	63.8	—	—	54	27	04/06	32	2
Dixie Bell DB1170	62.2	—	—	54	24	04/05	32	2
Terral TVX8660	61.7	—	—	52	23	04/14	29	1
Terral LA841	57.2	—	—	56	37	04/02	30	1
USG 3209	50.4	—	—	56	33	04/01	24	1
UGA 951079-2E31	44.0	—	—	55	34	03/31	25	1
UGA 951216-2E26	43.4	—	—	57	34	04/01	26	1
Overall Mean	75.4	—	—					
LSD (.10)	9.5	—	—					
Error degrees of freedom	192	—	—					
CV (%)	10.7	—	—					
R^2 (%)	74	—	—					

[1]Planted Oct. 19, 2005 Harvested June 6, 2006 Soil fertility: pH=7.5; P=H; K=H
Fertilizer added: Topdress — 46-0-0- @ 200 lb/A
Herbicide: None Previous crop: Soybeans
[2]No 2- or 3-year yields.
[3]See "Procedures" for a description of lodging scores.

Table 5. Wheat yields at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed[2]	Plant height	Lodging score[3]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
USG 3209	97.1	90.0	92.0	60	44	—	33	1
USG 3592	97.0	80.8	86.2	63	39	—	41	2
Armor 3015	95.7	93.3	—	60	32	—	37	1
Vigoro Dominion	95.2	92.8	—	62	38	—	35	1
Pioneer variety 26R22	94.2	97.4	—	60	37	—	38	1
Progeny 185	91.4	80.0	—	60	42	—	39	1
AgriPro Coker D01-7759	91.2	—	—	60	34	—	39	1
AGS2060	90.7	—	—	62	41	—	41	2
GA-951395-3E25	90.5	—	—	60	43	—	37	2
Armor 260Z	90.5	90.5	—	60	30	—	39	1
UGA 96229-3A41	90.1	98.9	—	62	40	—	40	1
DK GR9108	89.1	89.9	90.2	60	36	—	42	1
AGS 2000	88.5	73.2	79.5	60	53	—	40	2
Dixie DX989	87.7	—	—	59	33	—	36	2
GA-96229-3E39	86.9	—	—	61	40	—	41	1
HBK 3266	86.3	75.8	81.7	61	39	—	38	2
Delta Grow 1600	85.2	—	—	59	26	—	38	1
Terral TV8558	85.0	90.3	—	61	30	—	39	1
AgriPro Coker Natchez	84.9	90.2	89.8	60	32	—	42	2
AgriPro Coker Panola	84.7	91.1	91.2	59	31	—	38	2
AgriPro Coker 9553	84.7	93.7	—	60	34	—	38	1
UGA 951216-2E26	84.4	95.2	—	60	44	—	39	2
GA-951395-3A31	84.3	—	—	60	28	—	35	1
LA97113UC-124-3-B	83.7	89.5	—	63	44	—	40	1
UGA 951079-2E31	83.2	90.6	—	61	32	—	40	3
DK 9577	81.5	94.1	86.8	60	35	—	40	2
DK 7710	81.3	83.9	83.3	60	35	—	42	3
Pioneer variety 26R15	81.3	77.1	85.3	59	27	—	37	1
Terral TVX8331	80.8	—	—	59	40	—	36	1
Terral TV8466	79.5	85.6	84.9	61	38	—	37	1
Vigoro McIntosh	79.2	88.7	92.5	61	36	—	41	2
LA95135D54-2-3-C	79.0	90.0	—	59	40	—	45	2
FL91226	78.0	—	—	56	38	—	38	2
Dixie 500	77.0	—	—	57	31	—	39	2
AR Pat	76.4	83.1	82.4	61	31	—	39	1
Terral LA841	75.7	89.9	88.4	59	35	—	36	1
Pioneer variety XW04C	75.4	—	—	64	48	—	38	1
Fleming	75.4	—	—	60	30	—	36	1
Dixie Bell DB3440	73.2	—	—	57	26	—	38	1
Progeny P196	69.6	—	—	58	29	—	35	1
AgriPro Coker Beretta	69.3	80.2	83.8	56	22	—	34	1
Progeny 166	68.3	77.0	74.9	59	36	—	39	1
Dixie Bell DB2150	67.0	71.2	—	58	39	—	38	1
Delta Grow 5200	66.8	76.8	—	58	33	—	39	1
Dixie 900	66.7	77.9	78.6	58	29	—	40	1
USG 3350	65.8	77.1	72.8	59	33	—	40	1
Dixie Bell DB2125	65.5	73.0	—	59	33	—	40	1
Terral TVX8660	64.3	—	—	58	34	—	35	1
DK 7830	64.2	74.8	71.3	57	23	—	40	1
LA98094BUB-58-5-B	63.8	—	—	61	30	—	32	4
USG 3244	63.7	—	—	59	26	—	40	2
Armor 3035	61.8	73.7	71.4	57	26	—	39	2
DK 9410	61.5	86.7	72.3	57	22	—	39	1
Armor 3330	61.2	72.4	72.9	58	34	—	38	1
Armor 2010	61.0	67.3	—	58	30	—	40	1
Dixie 9512	60.8	74.4	77.1	57	31	—	39	1
Delta Grow 4100	60.2	74.6	—	57	24	—	40	1
Armor AXR 5110	59.4	—	—	57	23	—	38	1
Terral TVX83H504	58.9	—	—	57	23	—	38	1
Progeny 145	58.7	73.6	73.1	58	27	—	39	1
Delta Grow 4500	58.5	68.6	68.5	57	24	—	38	1
Terral TVX8332	56.9	—	—	57	24	—	38	1

Continued.

Table 5 (continued). Wheat yields at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed[2]	Plant height	Lodging score[3]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
Progeny 133	56.4	70.1	69.3	58	27	—	38	1
Progeny 110	56.4	67.9	67.2	59	28	—	40	1
Dixie Bell DB1170	54.4	69.1	—	58	28	—	40	1
Overall Mean	75.9	81.7	80.2					
LSD (.10)	6.6	6.9	5.5					
Error degrees of freedom	192	264	234					
CV (%)	7.4	10.2	10.1					
R^2 (%)	88	80	78					

[1]Planted Nov. 3, 2005 Harvested May 19, 2006 Soil fertility: pH=6.7; P=H ; K=H
Fertilizer added: 0-20-20 @ 300 lb/A (11/29/05); Topdress — 34-0-0 @ 300 lb/A (2/15/06)
Herbicide: None Previous crop: Wheat
[2]No heading dates were taken.
[3]See "Procedures" for a description of lodging scores.

Table 6. Wheat yields at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
Pioneer variety 26R22	108.4	98.4	—	55	30	03/31	36	1
Pioneer variety XW04C	100.6	—	—	59	44	04/13	39	1
AgriPro Coker 9553	97.7	86.4	—	58	41	04/12	38	1
Pioneer variety 26R15	87.5	89.2	80.6	56	31	04/02	33	1
Progeny P196	85.8	—	—	56	30	04/03	34	1
HBK 3266	84.0	80.3	71.9	57	38	03/24	40	1
Vigoro Dominion	82.1	71.0	—	57	33	03/27	35	1
Terral TVX8331	82.0	—	—	56	36	04/17	38	1
AgriPro Coker Natchez	81.7	73.7	68.7	57	35	04/13	40	1
AGS 2000	81.2	68.7	66.0	57	47	03/28	38	1
AgriPro Coker D01-7759	81.0	—	—	56	40	04/07	38	1
AR Pat	80.6	84.7	80.5	56	34	04/10	41	1
USG 3592	80.3	68.7	61.1	58	40	04/16	39	1
UGA 951216-2E26	79.9	61.5	—	56	43	04/01	39	1
AGS2060	79.6	—	—	60	42	03/25	37	1
GA-951395-3A31	79.4	—	—	57	35	03/29	32	1
GA-96229-3E39	79.4	—	—	57	43	04/05	41	1
GA-951395-3E25	78.4	—	—	57	36	04/10	35	1
Terral LA841	78.1	77.2	62.4	54	39	04/15	38	1
UGA 96229-3A41	77.5	67.9	—	57	36	04/14	38	1
Progeny 185	73.7	64.3	—	55	33	04/15	37	1
DK 7710	72.6	74.0	70.7	56	32	04/13	37	1
Armor 3015	71.9	67.7	—	55	32	04/14	38	1
Dixie DX989	71.8	—	—	55	33	04/13	41	1
Delta Grow 1600	71.6	—	—	54	32	04/09	42	1
DK 9577	70.6	65.8	67.7	59	35	04/03	38	1
DK GR9108	70.1	59.7	55.5	55	37	04/17	39	1
Dixie 500	69.5	—	—	54	30	04/15	38	1
Terral TV8466	69.2	69.9	66.8	54	30	04/08	41	1
UGA 951079-2E31	68.7	53.5	—	58	34	04/03	38	1
LA95135D54-2-3-C	68.5	73.4	—	54	41	04/12	40	1
AgriPro Coker Beretta	67.5	74.0	74.6	53	29	04/16	35	2
Fleming	66.7	—	—	56	32	04/01	35	1
FL91226	66.5	—	—	50	36	04/08	38	1
Dixie 900	66.3	64.9	69.7	55	28	03/30	41	1
Dixie Bell DB3440	65.9	—	—	54	31	04/11	42	2
USG 3244	65.6	—	—	55	29	03/24	38	1
AgriPro Coker Panola	65.1	67.0	68.5	55	31	04/16	39	3
Armor 2010	65.0	59.7	—	55	29	04/06	39	1

Continued.

Table 6 (continued). Wheat yields at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	*bu/A*	*bu/A*	*lb/bu*	*g/1000*		*in*	
Dixie Bell DB2150	64.7	65.5	—	55	27	04/11	37	2
Terral TV8558	63.4	54.4	—	55	26	03/30	39	1
Vigoro McIntosh	62.4	53.5	52.9	58	33	04/06	36	1
USG 3209	61.5	55.8	54.5	55	38	03/24	31	1
Progeny 166	61.2	66.4	66.9	54	28	04/07	39	1
Armor AXR 5110	60.9	—	—	56	28	03/31	34	1
USG 3350	60.7	68.8	67.5	53	27	04/04	36	2
Delta Grow 5200	60.2	63.6	—	56	31	03/24	41	1
Terral TVX8332	59.2	—	—	55	29	03/26	33	1
Terral TVX8660	57.8	—	—	55	27	04/12	35	1
LA97113UC-124-3-B	56.9	54.9	—	57	46	04/16	39	1
Progeny 145	53.8	62.2	63.9	55	29	04/08	41	1
Armor 3035	52.3	61.1	63.4	55	26	03/30	34	1
Dixie Bell DB1170	52.1	56.6	—	52	28	04/10	38	1
Dixie 9512	51.8	56.3	60.4	52	29	04/06	39	1
Terral TVX83H504	50.9	—	—	53	28	04/06	35	1
Armor 3330	50.2	53.1	58.9	54	24	04/17	39	1
Dixie Bell DB2125	49.1	54.4	—	54	25	03/27	37	1
Progeny 133	49.1	54.3	65.8	52	28	03/30	38	1
Progeny 110	49.0	50.7	60.9	52	27	04/05	39	1
DK 7830	48.9	53.3	60.0	55	27	04/14	39	2
DK 9410	48.1	55.8	59.7	52	28	03/27	38	1
Delta Grow 4500	47.3	53.8	58.0	54	26	04/04	29	1
Armor 260Z	45.3	51.2	—	55	31	03/24	33	1
LA98094BUB-58-5-B	43.9	—	—	56	36	04/10	29	1
Delta Grow 4100	41.9	52.2	—	55	32	04/10	35	1
Overall Mean	67.6	64.9	65.2					
LSD (.10)	19.6	14.7	9.0					
Error degrees of freedom	128	131	155					
CV (%)	21.5	21.5	17.7					
R^2 (%)	60	65	62					

[1]Planted Nov. 9, 2005 Harvested May 31, 2006 Soil fertility: pH=5.2; P=H; K=M
Fertilizer added: N @ 90 lb/A
Herbicide: None Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 7. Yield summary of wheat variety trials in Mississippi.

Brand/Variety	Brooksville	Olive Branch	North avg.	Newton	Raymond	South avg.	Cleveland	Stoneville	Delta avg.	Overall avg.
	bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriPro Coker Beretta	85.6	**103.9**	94.8	69.3	67.5	68.5	98.5	84.1	91.3	85.5
AgriPro Coker Natchez	88.1	95.4	91.8	84.9	81.7	83.5	105.5	88.0	**96.8**	91.0
AgriPro Coker Panola	86.6	97.8	92.2	84.7	65.1	76.3	95.8	85.3	90.5	86.8
AgriPro Coker 9553 (was APW 742)	82.9	**106.5**	94.7	84.7	**97.7**	90.3	93.6	86.8	90.2	91.8
AgriPro Coker D01-7759 (Exp.)	90.2	94.4	92.3	**91.2**	81.0	86.8	98.2	**92.0**	95.1	91.6
AGS 2000	91.7	91.7	91.7	88.5	81.2	85.4	92.7	84.1	88.4	88.6
AGS 2060 (Exp.)	77.3	93.9	85.6	**90.7**	79.6	85.9	92.7	92.6	**92.6**	88.2
AR Pat	82.2	89.6	85.9	76.4	80.6	78.2	87.3	87.0	87.2	84.0
Armor 2010	92.8	94.7	93.7	61.0	65.0	62.7	86.9	73.5	80.2	79.6
Armor 3035	79.6	92.6	86.1	61.8	52.3	57.7	90.7	73.1	81.9	76.0
Armor 3330	93.4	92.2	92.8	61.2	50.2	56.5	94.4	60.1	80.3	77.4
Armor 260Z (was AXR 5099)	85.7	98.6	92.2	**90.5**	45.3	71.1	99.0	75.5	87.2	84.1
Armor 3015 (was AXR 5667)	92.6	90.9	91.8	**95.7**	71.9	85.5	91.9	70.7	81.3	86.2
Armor AXR 5110 (Exp.)	**96.5**	95.9	96.2	59.4	60.9	60.0	103.5	71.1	87.3	82.1
Delta Grow 1600	87.0	99.2	93.1	85.2	71.6	79.3	96.3	78.4	87.3	86.9
Delta Grow 4100	89.2	91.7	90.5	60.2	41.9	52.3	91.0	73.3	82.2	76.0
Delta Grow 4500	89.3	90.1	89.7	58.5	47.3	53.7	96.0	64.8	80.4	75.5

Continued.

Table 7 (continued). Yield summary of wheat variety trials in Mississippi.

Brand/Variety	Brooksville	Olive Branch	North avg.	Newton	Raymond	South avg.	Cleveland	Stoneville	Delta avg.	Overall avg.
	bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Delta Grow 5200	83.6	95.7	89.6	66.8	60.2	63.9	104.7	67.8	86.3	80.6
Delta King 7710	91.0	**109.4**	**100.2**	81.3	72.6	77.6	99.4	88.9	94.2	91.2
Delta King 7830	89.4	97.5	93.4	64.2	48.9	57.7	100.9	72.7	86.8	80.3
Delta King 9410	88.0	96.8	92.4	61.5	48.1	55.7	100.8	66.2	83.5	78.2
Delta King 9577	**95.6**	**108.7**	**102.2**	81.5	70.6	76.8	101.8	78.0	89.9	90.2
Delta King GR9108	80.2	94.4	87.3	89.1	71.1	81.0	99.0	82.3	90.7	86.5
Dixie 500	84.1	99.2	91.6	77.0	69.5	73.8	80.0	74.0	77.0	81.1
Dixie 900	80.2	95.4	87.8	66.7	66.3	66.5	93.1	70.7	81.9	79.3
Dixie 9512	81.0	89.6	85.3	60.8	51.8	57.0	93.7	63.8	78.8	74.4
Dixie DX989 (Exp.)	84.4	**107.1**	95.8	87.7	71.8	80.9	**101.9**	82.3	92.1	89.9
Dixie Bell DB1170	**96.9**	87.8	92.4	54.4	52.1	53.4	94.3	62.2	78.3	75.6
Dixie Bell DB2125	90.5	95.3	92.9	65.5	49.1	58.4	**104.5**	77.9	91.2	81.8
Dixie Bell DB2150	89.6	99.3	94.4	67.0	64.7	66.0	93.5	79.1	86.3	82.9
Dixie Bell DB3440	84.9	89.6	87.2	73.2	65.9	70.1	94.3	63.9	79.1	79.2
FL91226	78.9	78.6	78.8	78.0	66.5	73.1	74.0	69.9	72.0	74.7
Fleming	86.0	65.3	75.6	75.4	66.7	71.7	78.4	73.3	75.8	74.5
GA-951079-2E31 (Exp.)	60.4	89.6	75.0	83.2	68.7	77.0	75.3	44.0	60.0	70.3
GA-951216-2E26 (Exp.)	76.0	88.3	82.2	84.4	79.9	82.5	97.2	43.4	70.3	78.1
GA-96229-3A41 (Exp.)	79.5	92.4	86.0	90.1	77.5	84.7	95.5	78.5	87.1	86.0
GA-951395-3E25 (Exp.)	83.7	**101.4**	92.6	**90.5**	78.4	85.3	93.1	**94.6**	93.8	90.8
GA-951395-3A31 (Exp.)	82.3	91.7	87.0	84.3	79.4	82.2	88.5	**91.1**	89.8	86.5
GA-96229-3E39 (Exp.)	80.8	89.1	85.0	86.9	79.4	83.6	95.8	73.8	84.8	84.5
HBK 3266	86.5	82.2	84.4	86.3	84.0	85.3	88.2	85.7	87.0	85.6
LA95135D54-2-3-C (Exp.)	73.2	98.7	85.9	79.0	68.5	74.5	87.0	73.5	80.3	80.5
LA97113UC-124-3-B (Exp.)	71.9	96.5	84.2	83.7	56.9	72.2	83.7	71.5	77.6	78.3
LA98094BUB-58-5-B (Exp.)	74.3	77.1	75.7	63.8	43.9	55.3	79.9	84.7	82.3	72.0
Pioneer variety 26R15	92.1	**103.9**	97.9	81.3	87.5	83.9	**109.4**	85.8	**97.6**	93.5
Pioneer variety 26R22	**105.7**	**109.7**	**107.7**	**94.2**	**108.4**	**100.3**	**108.3**	**99.3**	**103.8**	**104.1**
Pioneer variety XW04C (Exp.)	74.6	92.1	83.4	75.4	100.6	86.2	97.7	67.6	82.7	84.0
Progeny 110	88.9	87.1	88.0	56.4	49.0	53.2	92.9	64.5	78.7	74.2
Progeny 133	86.6	88.9	87.7	56.4	49.1	53.3	98.2	65.4	81.8	75.2
Progeny 145	82.0	85.9	84.0	58.7	53.8	56.6	94.7	66.1	80.4	74.4
Progeny 166	93.0	96.3	94.7	68.3	61.2	65.2	94.2	77.8	86.0	82.7
Progeny 185	82.0	**102.0**	92.0	**91.4**	73.7	83.8	**99.0**	80.8	89.9	88.8
Progeny 196 (Exp.)	87.8	90.6	89.2	69.6	85.8	76.5	**104.3**	79.6	92.0	86.3
Terral LA841	87.3	86.7	87.0	75.7	78.1	76.7	91.5	57.2	74.3	79.5
Terral TV8466	88.6	88.1	88.3	79.5	69.2	75.1	91.1	78.6	84.8	83.1
Terral TV8558	92.2	**110.3**	**101.2**	85.0	63.4	75.7	95.7	78.0	86.9	88.5
Terral TVX83H504 (Exp.)	84.0	94.9	89.5	58.9	50.9	55.5	**101.0**	66.1	83.5	77.1
Terral TVX8331 (Exp.)	93.6	**101.3**	97.5	80.8	82.0	81.4	95.3	**91.2**	93.3	91.1
Terral TVX8660 (Exp.)	78.8	96.3	87.5	64.3	57.8	61.5	75.8	61.7	68.7	73.1
Terral TVX8332 (Exp.)	88.0	**103.4**	95.7	56.9	59.2	57.9	97.6	76.1	86.9	81.1
USG 3209	90.3	**105.8**	98.1	**97.1**	61.5	81.9	**98.8**	50.4	74.6	85.0
USG 3244	90.7	97.8	94.2	63.7	65.6	64.5	**103.7**	78.3	91.0	84.1
USG 3350	86.9	**103.2**	95.0	65.8	60.7	63.6	**103.2**	77.0	90.1	83.7
USG 3592	80.5	**106.4**	93.5	**97.0**	80.3	89.8	**103.8**	81.5	92.7	92.1
Vigoro Dominion (was VA00W-526)	85.8	97.4	91.6	**95.2**	82.1	89.6	90.0	**92.2**	91.1	90.8
Vigoro McIntosh	73.2	92.7	82.9	79.2	62.4	72.0	79.9	66.8	73.4	76.3
Overall Mean	85.5	95.0	90.3	75.9	67.6	72.4	94.4	75.4	84.9	83.0
LSD (.10)	12.0	9.9	7.7	6.6	19.6	9.0	10.8	9.5	7.1	4.6
Error degrees of freedom	192	192	384	192	128	320	192	192	384	1088
CV (%)	12.0	8.9	10.4	7.4	21.4	14.0	9.8	10.7	10.2	11.3
R^2 (%)	44	58	58	88	60	73	53	74	78	77

Table 8. 2-Year summary of wheat variety trials in Mississippi.						
Brand/Variety	**Brooksville**	**Newton**	**Raymond**	**South avg.**	**Cleveland**	**Overall avg.**
	bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriPro Coker Beretta	90.6	80.2	74.0	77.8	95.8	86.3
AgriPro Coker Natchez	91.1	90.2	73.7	83.9	96.0	89.2
AgriPro Coker Panola	84.1	91.1	67.0	81.8	100.6	87.6
AgriPro Coker 9553 (was APW 742)	82.3	93.7	86.4	90.9	100.3	91.1
AGS 2000	71.3	73.2	68.7	71.5	77.4	73.0
AR Pat	76.5	83.1	84.7	83.7	89.3	83.3
Armor 2010	87.6	67.3	57.7	63.6	92.0	78.0
Armor 3035	79.5	73.7	61.1	68.9	89.3	77.4
Armor 3330	91.7	72.4	53.1	65.0	93.0	80.1
Armor 260Z (was AXR 5099)	91.4	90.5	51.2	75.4	101.0	86.8
Armor 3015 (was AXR 5667)	88.8	93.3	67.7	83.4	91.9	87.2
Delta Grow 4100	89.1	74.6	52.2	66.0	94.7	80.3
Delta Grow 4500	88.5	68.6	53.8	62.9	92.3	78.1
Delta Grow 5200	83.0	76.8	63.6	71.7	101.9	83.2
Delta King 7710	87.3	83.9	74.0	80.1	100.3	87.6
Delta King 7830	86.7	74.8	53.3	66.6	95.2	80.0
Delta King 9410	86.7	73.0	55.8	66.4	99.1	81.0
Delta King 9577	94.1	83.3	65.8	76.6	100.6	88.0
Delta King GR9108	78.0	89.9	59.7	79.8	94.3	83.5
Dixie 900	90.0	77.9	64.9	72.9	93.7	83.4
Dixie 9512	85.9	74.4	56.3	67.5	95.5	80.3
Dixie Bell DB1170	89.7	69.1	56.6	64.3	89.2	78.2
Dixie Bell DB2125	89.3	73.0	54.4	65.8	99.7	81.6
Dixie Bell DB2150	88.0	71.2	65.5	69.0	93.3	81.0
GA-951079-2E31 (Exp.)	69.4	90.6	53.5	76.3	92.6	78.9
GA-951216-2E26 (Exp.)	80.9	95.2	61.5	82.2	107.2	88.7
GA-96229-3A41 (Exp.)	87.3	98.9	67.9	87.0	105.0	92.0
HBK 3266	84.6	75.8	80.3	77.5	73.3	78.3
LA95135D54-2-3-C (Exp.)	81.9	90.0	73.4	83.6	90.8	85.1
LA97113UC-124-3-B (Exp.)	63.3	89.5	54.9	76.2	92.5	77.1
Pioneer variety 26R15	93.5	77.1	89.2	81.7	97.8	89.4
Pioneer variety 26R22	96.6	97.4	98.4	97.8	111.0	101.1
Progeny 110	94.8	67.9	50.7	61.3	91.1	78.7
Progeny 133	96.7	70.1	54.3	64.0	97.2	82.2
Progeny 145	89.0	73.6	62.2	69.2	92.2	81.0
Progeny 166	93.9	77.0	66.4	72.9	94.3	84.6
Progeny 185	83.1	80.0	64.3	74.0	89.7	80.8
Terral LA841	80.7	89.9	77.2	85.0	102.2	88.5
Terral TV8466	88.8	85.6	69.9	79.5	96.1	86.7
Terral TV8558	89.6	90.3	54.4	76.5	95.3	85.3
USG 3209	81.3	90.0	55.8	76.8	89.1	81.4
USG 3350	96.0	77.1	68.8	73.9	100.0	87.2
USG 3592	83.5	80.8	68.7	76.2	87.8	81.4
Vigoro Dominion (was VA00W-526)	82.6	92.8	71.0	84.4	88.9	85.1
Vigoro McIntosh	71.9	88.7	53.5	75.2	86.3	77.3
Overall Mean	85.8	81.7	64.9	75.3	94.6	83.5
LSD (.10)	11.5	6.9	14.7	6.8	8.6	5.0
Error degrees of freedom	264	264	131	395	264	923
CV (%)	16.3	10.2	21.5	14.0	11.0	13.9
R^2 (%)	47	80	65	78	60	73

Table 9. 3-Year summary of wheat variety trials in Mississippi.

Brand/Variety	Brooksville	North avg.	Newton	Raymond	South avg.	Cleveland	Delta avg.		Overall avg.
	bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*		*bu/A*
AgriPro Coker Beretta	92.1	92.1	83.8	74.6	79.8	90.2	90.2		85.9
AgriPro Coker Natchez	87.7	87.7	89.8	68.7	80.7	89.6	89.6		84.9
AgriPro Coker Panola	88.9	88.9	91.2	68.5	81.4	93.1	93.1		86.5
AGS 2000	81.3	81.3	79.5	66.0	74.1	73.4	73.4		75.8
AR Pat	79.3	79.3	82.4	80.5	81.6	87.7	87.7		82.6
Armor 3035	79.9	79.9	71.4	63.4	68.0	84.6	84.6		75.6
Armor 3330	88.9	88.9	72.9	58.9	66.9	90.0	90.0		78.9
Delta Grow 4500	89.2	89.2	68.5	58.0	64.0	88.9	88.9		77.4
Delta King 7710	83.3	83.3	82.6	70.7	77.5	91.3	91.3		82.7
Delta King 7830	84.3	84.0	71.3	60.0	66.5	89.9	89.9		77.4
Delta King 9410	84.0	84.0	72.3	59.7	66.9	93.8	93.8		78.6
Delta King 9577	94.0	94.0	86.8	67.7	78.6	97.3	97.3		87.7
Delta King GR9108	76.2	76.2	90.2	55.5	76.3	90.4	90.4		80.2
Dixie 900	91.4	91.4	78.6	67.9	74.8	93.1	93.1		84.1
Dixie 9512	91.0	91.0	77.1	60.4	69.9	92.1	92.1		81.5
HBK 3266	90.4	90.4	81.7	71.9	77.5	72.2	72.2		79.5
Pioneer variety 26R15	94.1	94.1	85.3	80.6	83.3	93.0	93.0		88.8
Progeny 110	90.3	90.3	67.2	60.9	64.5	89.2	89.2		78.0
Progeny 133	89.4	89.4	69.3	65.8	67.8	91.9	91.9		80.0
Progeny 145	88.7	88.7	73.1	63.9	69.1	88.7	88.7		79.6
Progeny 166	90.0	90.0	74.9	66.9	71.5	91.9	91.9		81.9
Terral TV8466	88.4	88.4	84.9	66.8	77.1	88.3	88.3		83.1
Terral LA841	82.9	82.9	88.4	62.4	77.3	98.8	98.8		84.5
USG 3209	86.7	86.7	92.0	54.5	75.9	85.7	85.7		81.4
USG 3350	89.2	89.2	72.8	67.5	70.5	96.3	96.3		82.4
USG 3592	85.7	85.7	86.2	61.1	75.5	79.5	79.5		79.3
Vigoro McIntosh	76.2	76.2	92.5	52.9	75.5	83.6	83.6		77.9
Overall Mean	86.8	86.8	80.2	65.2	73.8	89.1	89.1		81.3
LSD (.10)	8.5	8.5	5.5	9.0	4.9	6.6	6.6		3.7
Error degrees of freedom	233	233	234	155	389	234	234		856
CV (%)	14.5	14.5	10.1	17.7	13.0	11.0	11.0		13.0
R^2 (%)	50	50	78	62	77	66	66		73

Table 10. Wheat varietal reactions to disease in Mississippi.[1, 2]

Brand/Variety	Leaf rust[2]
AgriPro Coker Beretta	R
AgriPro Coker Natchez	R
AgriPro Coker Panola	R
AgriPro Coker 9553 (was APW 742)	R
AgriPro Coker D01-7759 (Exp.)	R
AGS 2000	R
AGS 2060 (Exp.)	R
AR Pat	R
Armor 2010	MS
Armor 3035	MR
Armor 3330	MR
Armor 260Z (was AXR 5099)	MR
Armor 3015 (was AXR 5667)	R
Armor AXR 5110 (Exp.)	MR
Delta Grow 1600	R
Delta Grow 4100	MR
Delta Grow 4500	MS
Delta Grow 5200	MR
Delta King 7710	R
Delta King 7830	MR
Delta King 9410	MR
Delta King 9577	R
Delta King GR9108	R
Dixie 500	MR
Dixie 900	MR
Dixie 9512	MR
Dixie DX989 (Exp.)	R
Dixie Bell DB1170	MR
Dixie Bell DB2125	R
Dixie Bell DB2150	MR
Dixie Bell DB3440	MR
FL91226	MR
Fleming	R
GA-951079-2E31 (Exp.)	R
GA-951216-2E26 (Exp.)	R
GA-96229-3A41 (Exp.)	R
GA-951395-3E25 (Exp.)	R
GA-951395-3A31 (Exp.)	R
GA-96229-3E39 (Exp.)	R
HBK 3266	R
LA95135D54-2-3-C (Exp.)	R
LA97113UC-124-3-B (Exp.)	R
LA98094BUB-58-5-B (Exp.)	R
Pioneer variety 26R15	R
Pioneer variety 26R22	R
Pioneer variety XW04C (Exp.)	R
Progeny 110	MS
Progeny 133	MR
Progeny 145	MS
Progeny 166	MR
Progeny 185	MR
Progeny 196 (Exp.)	R
Terral LA841	R
Terral TV8466	R
Terral TV8558	R
Terral TVX83H504 (Exp.)	MR
Terral TVX8331 (Exp.)	R
Terral TVX8660 (Exp.)	R
Terral TVX8332 (Exp.)	MR
USG 3209	R
USG 3244	MR
USG 3350	MR
USG 3592	R
Vigoro Dominion (was VA00W-526)	MR
Vigoro McIntosh	R

[1]Prepared by Dr. David Ingram, Associate Extension/Research Plant Pathologist, Central Mississippi Research and Extension Center, Raymond, Mississippi.
[2]Values were subjected to analysis of variance and were compared to a set of standard values for R=resistant (<1%); MR=moderately resistant (1-5%); MS=moderately susceptible (5-10%); S=susceptible (10-25%); VS=very susceptible (>25%); and - = no disease symptoms observed. Values reflect varietal disease reaction only and are not intended to be used as the sole criterion for determination of economic losses.

Table 11. Average number of wheat seeds per pound.

Brand/Variety	2005-06 average	2-year average	Brand/Variety	2005-06 average	2-year average
	seeds/lb	*seeds/lb*		*seeds/lb*	*seeds/lb*
AgriPro Coker Beretta	13,822	13,101	GA-951079-2E31 (Exp.)	12,195	12,225
AgriPro Coker Natchez	13,107	12,129	GA-951216-2E26 (Exp.)	12,719	12,704
AgriPro Coker Panola	14,756	14,206	GA-96229-3A41 (Exp.)	14,481	13,936
AgriPro Coker 9553 (was APW 742)	11,226	12,521	GA-951395-3E25 (Exp.)	11,842	—
AgriPro Coker D01-7759 (Exp.)	14,061	—	GA-951395-3A31 (Exp.)	11,779	—
AGS 2000	9,677	9,971	GA-96229-3E39 (Exp.)	12,944	—
AGS 2060 (Exp.)	10,423	—	HBK 3266	13,720	12,991
AR Pat	13,263	14,507	LA95135D54-2-3-C (Exp.)	11,069	11,468
Armor 2010	11,411	11,571	LA97113UC-124-3-B (Exp.)	10,551	10,501
Armor 3035	12,548	14,338	LA98094BUB-58-5-B (Exp.)	12,092	—
Armor 3330	12,588	12,304	Pioneer variety 26R15	12,029	12,507
Armor 260Z (was AXR 5099)	13,337	15,558	Pioneer variety 26R22 (was XW03X)	10,694	10,873
Armor 3015 (was AXR 5667)	14,171	13,874	Pioneer variety XW04C (Exp.)	9,791	—
Armor AXR 5110 (Exp.)	13,061	—	Progeny 110	12,562	13,381
Delta Grow 1600	18,091	—	Progeny 133	12,653	13,062
Delta Grow 4100	15,374	15,263	Progeny 145	13,329	13,561
Delta Grow 4500	13,552	13,231	Progeny 166	13,372	13,591
Delta Grow 5200	14,361	13,731	Progeny 185	14,821	14,827
Delta King 7710	15,705	14,658	Progeny 196 (Exp.)	14,029	—
Delta King 7830	12,357	12,571	Terral LA841	11,879	12,175
Delta King 9410	14,314	13,278	Terral TV8466	12,387	12,359
Delta King 9577	16,428	17,008	Terral TV8558 (was TVX83W479)	15,416	16,574
Delta King GR9108	12,965	11,990	Terral TVX83H504 (Exp.)	13,784	—
Dixie 500	12,073	—	Terral TVX8331 (Exp.)	12,912	—
Dixie 900	12,750	12,366	Terral TVX8660 (Exp.)	15,664	—
Dixie 9512	12,726	12,937	Terral TVX8332 (Exp.)	13,708	—
Dixie DX989 (Exp.)	18,074	—	USG 3209	11,587	11,956
Dixie Bell DB1170	13,502	12,752	USG 3244	13,618	—
Dixie Bell DB2125	12,721	12,947	USG 3350	12,514	13,877
Dixie Bell DB2150	14,056	13,214	USG 3592	11,765	12,441
Dixie Bell DB3440	13,577	—	Vigoro Dominion (was VA00W-526)	12,145	14,271
FL91226	10,429	—	Vigoro McIntosh	12,176	13,251
Fleming	12,139	—			

Table 12. Average number of oat seeds per pound.

Brand/Variety	2005-06 average	2-year average	Brand/Variety	2005-06 average	2-year average
	seeds/lb	*seeds/lb*		*seeds/lb*	*seeds/lb*
AR York	17,428	16,969	LA97006GBS-22-B-S2 (Exp.)	14,350	14,858
FL 0047-P7 (Exp.)	16,360	—	LA Terral Trophy	12,285	12,644
FL 99123-P9 (Exp.)	15,112	—	LA9825SBSB-59-C (Exp.)	15,635	14,914
FL 99201-D29-E1 (Exp.)	13,375	—	LA99017SBSB-46 (Exp.)	15,104	—
FL 99212-D6 (Exp.)	14,598	—	Plot Spike 9339	16,822	—
LA FL9912 (Exp.)	15,413	—	Terral Secretariat LA495	15,710	15,934
LA966BSB-270-S2-C (Exp.)	15,118	14,452			

Table 13. Oat yields at MAFES Black Belt Branch, Brooksville (Brooksville silt clay soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Date headed	Plant height	Lodging score[2]
	bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*	
LA966BSB-270-S2-C	70.9	89.1	—	32	04/21	30	1
Secretariat LA495	66.9	91.4	96.5	33	04/12	37	1
FL0047-P7	59.2	—	—	32	04/17	37	1
FL99201-D29-E	55.3	—	—	30	04/12	40	1
LA Terral Trophy	53.6	81.7	89.8	33	04/17	37	1
FL99212-D6	53.2	—	—	33	04/14	36	1
LA97006GBS-22-B-S2	46.7	84.6	81.8	33	04/14	39	1
Plot Spike LA9339	45.3	—	—	32	04/17	40	1
FL99123-P9	45.0	—	—	32	04/17	37	1
AR York	34.1	82.7	91.2	34	04/21	30	1
LA99017SBSB-46	24.7	—	—	32	04/21	42	1
LA9825SBSB-59-C	23.9	66.0	—	30	04/14	39	1
LAFL9912	17.3	—	—	35	04/21	45	3
Overall mean	45.9	82.5	89.8				
LSD (.10)	17.6	17.3	12.0				
Error degrees of freedom	36	30	27				
CV (%)	32.2	24.8	19.2				
R^2 (%)	76	88	89				

[1]Planted Oct. 20, 2005 Harvested June 7, 2006 Soil fertility: pH=6.4; P=M; K=M
Fertilizer added: Preplant — 13-13-13 @ 300 lb/A; Topdress — N @ 90 lb/A
Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 14. Oat yields at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Date headed	Plant height	Lodging score[2]
	bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*	
Secretariat LA495	112.1	119.7	115.8	34	04/10	44	4
LA Terral Trophy	110.4	120.3	112.0	37	04/07	44	4
FL99212-D6	104.6	—	—	34	04/07	32	1
FL99201-D29-E	103.9	—	—	35	04/05	44	4
LA966BSB-270-S2-C	100.3	113.8	—	35	04/07	38	5
FL99123-P9	94.3	—	—	37	04/15	37	4
LA9825SBSB-59-C	88.6	103.7	—	36	04/10	48	1
LA97006GBS-22-B-S2	83.5	105.5	86.9	35	04/10	42	5
Plot Spike LA9339	82.5	—	—	36	04/12	46	3
LA99017SBSB-46	76.1	—	—	36	04/12	54	5
FL0047-P7	76.0	—	—	34	04/12	38	4
AR York	74.2	104.4	111.9	35	04/12	30	1
LAFL9912	47.9	—	—	41	04/07	54	5
Overall mean	88.8	111.2	106.7				
LSD (.10)	17.4	11.5	11.1				
Error degrees of freedom	36	30	27				
CV (%)	16.4	12.2	15.0				
R^2 (%)	70	79	84				

[1]Planted Nov. 3, 2005 Harvested May 19, 2006 Soil fertility: pH=6.7; P=H; K=H
Fertilizer added: Topdress — 34-0-0 @ 235 lb/A (2/15/06)
Herbicide: None Previous crop: Oats
[2]See "Procedures" for a description of lodging scores.

Table 15. Oat yields at MAFES Delta Branch, Stoneville (Sharkey clay soil).[1]

Brand/Variety	2005-06 yield	2-Year avg. yield[2]	3-Year avg. yield[2]	Test weight	Date headed[3]	Plant height	Lodging score[3]
	bu/A	*bu/A*	*bu/A*	*lb/bu*		*in*	
LA966BSB-270-S2-C	136.7	—	—	34	04/15	39	1
FL0047-P7	134.2	—	—	33	04/19	36	2
FL99201-D29-E	131.0	—	—	32	04/12	40	1
LA97006GBS-22-B-S2	123.8	—	—	34	04/14	37	3
LA Terral Trophy	123.4	—	—	33	04/07	38	1
Secretariat LA495	119.5	—	—	32	04/11	37	1
FL99212-D6	116.7	—	—	33	04/12	35	1
LA99017SBSB-46	113.1	—	—	34	04/14	38	1
AR York	107.2	—	—	36	04/17	29	2
Plot Spike LA9339	106.9	—	—	33	04/17	39	1
FL99123-P9	106.1	—	—	35	04/07	34	2
LA9825SBSB-59-C	87.9	—	—	30	04/13	37	1
LAFL9912	71.7	—	—	36	04/09	40	1
Overall mean	113.7	—	—				
LSD (.10)	15.3	—	—				
Error degrees of freedom	36	—	—				
CV (%)	11.3	—	—				
R^2 (%)	74	—	—				

[1]Planted Oct. 19, 2005 Harvested June 6, 2005 Soil fertility: pH=7.5; P=H; K=H
Fertilizer added: Topdress — 46-0-0- @ 200 lb/A
Previous crop: Soybeans
[2]No 2- or 3-year yields.
[3]See "Procedures" for a description of lodging scores.

Table 16. Yield summary of oat variety trials in Mississippi.

Brand/Variety	Brooksville	Newton	Stoneville	Overall avg.
	bu/A	*bu/A*	*bu/A*	*bu/A*
AR York	34.1	74.2	107.2	71.9
FL 0047-P7 (Exp.)	**59.2**	76.0	**134.2**	89.8
FL 99123-P9 (Exp.)	45.0	94.3	106.1	81.8
FL 99201-D29-E1 (Exp.)	**55.3**	**103.9**	**131.0**	**96.8**
FL 99212-D6 (Exp.)	53.2	**104.6**	116.7	91.5
LA FL9912 (Exp.)	17.3	47.9	71.7	45.6
LA966BSB-270-S2-C (Exp.)	**70.9**	**100.3**	**136.7**	**102.7**
LA97006GBS-22-B-S2 (Exp.)	46.7	83.5	**123.8**	84.7
LA Terral Trophy	**53.6**	**110.4**	**123.4**	**95.8**
LA9825SBSB-59-C (Exp.)	23.9	88.6	87.9	66.8
LA99017SBSB-46 (Exp.)	24.7	76.1	113.1	71.3
Plot Spike LA9339	45.3	82.5	106.9	78.2
Terral Secretariat LA495	**66.9**	**112.1**	119.5	**99.5**
Overall Mean	45.9	88.8	113.7	82.8
LSD (.10)	17.6	17.4	15.3	9.5
Error degrees of freedom	36	36	36	108
CV (%)	32.2	16.4	11.3	17.0
R^2 (%)	76	70	74	89

Table 17. 2-Year yield summary of oat variety trials in Mississippi.			
Brand/Variety	**Brooksville**	**Newton**	**Overall avg.**
	bu/A	*bu/A*	*bu/A*
AR York	82.1	104.4	93.2
LA966BSB-270-S2-C (Exp.)	89.1	113.8	101.4
LA97006GBS-22-B-S2 (Exp.)	84.6	105.5	95.0
LA Terral Trophy	81.7	120.3	101.0
LA9825SBSB-59-C (Exp.)	66.0	103.7	84.8
Terral Secretariat	91.4	119.7	105.6
Overall Mean	82.5	111.2	96.8
LSD (.10)	17.3	11.5	10.2
Error degrees of freedom	30	30	60
CV (%)	24.8	12.2	17.9
R^2 (%)	88	79	88

Table 18. 3-Year yield summary of oat variety trials in Mississippi.			
Brand/Variety	**Brooksville**	**Newton**	**Overall avg.**
	bu/A	*bu/A*	*bu/A*
AR York	91.2	111.9	101.6
LA97006GBS-22-B-S2 (Exp.)	81.8	86.9	84.4
LA Terral Trophy	89.8	112.0	100.9
Terral Secretariat LA495	96.5	115.8	106.2
Overall Mean	89.8	106.7	98.2
LSD (.10)	12.0	11.1	8.0
Error degrees of freedom	27	27	54
CV (%)	19.2	15.0	16.9
R^2 (%)	89	84	88

Commercial Wheat Brands/Varieties Entered

AgriPro Coker/Syngenta Seeds 778 CR 680 Bay, AR 72411	AgriPro Coker Beretta AgriPro Coker Natchez AgriPro Coker Panola	AgriPro Coker 9553 (was APW 742) AgriPro Coker D01-7759 (Exp.)
AgSouth Genetics P.O. Box 72246 Albany, GA 31708	AGS 2000 AGS 2060 (Exp.)	
B&S Seed Company, Inc. 1283 Hwy. 444 Duncan, MS 38740	Dixie Bell DB1170 Dixie Bell DB2125	Dixie Bell DB2150 Dixie Bell DB3440
Cache River Valley Seed P.O. Box 10 Cash, AR 72421	Dixie 500 Dixie 900	Dixie 9512 Dixie DX989 (Exp.)
Cullum Seed P.O. Box 9 Waldenburg, AR 72475	Armor 2010 Armor 3035 Armor 3330	Armor 260Z (was AXR 5099) Armor 3015 (was AXR 5667) Armor AXR 5110 (Exp.)
Delta Grow Seed P.O. Box 219 England, AR 72046	Delta Grow 1600 Delta Grow 4100	Delta Grow 4500 Delta Grow 5200
Delta King Seed Company P.O. Box 970 McCrory, AR 72101	DK 7710 DK 7830 DK 9410	DK 9577 DK GR9108
Hornbeck Seed Company P.O. Box 472 DeWitt, AR 72042	HBK 3266	
Pioneer Hi-Bred Intl. 7501 Memorial Pkwy. Ste 205 Huntsville, AL 35802	Pioneer variety 26R15 Pioneer variety 26R22 (was XW03X) Pioneer variety XW04C (Exp.)	
Plantation Seed P.O. Box 398 Newton, GA 39870	Fleming	
Progeny Ag Products 1529 Hwy. 193 Wynne, AR 72396	Progeny 110 Progeny 133 Progeny 145	Progeny 166 Progeny 185 Progeny 196 (Exp.)
Royster-Clark, Inc. 717 Robinson Road SE Washington, C.H., OH 43160	Vigoro Dominion (was VA00W-526) Vigoro McIntosh	
Terral Seed, Inc. P.O. Box 826 Lake Providence, LA 71254	Terral LA841 Terral TV8466 Terral TV8558 (was TVX83W479) Terral TVX83H504 (Exp.)	Terral TVX8331 (Exp.) Terral TVX8660 (Exp.) Terral TVX8332 (Exp.)
UniSouth Genetics, Inc. 2640-C Nolensville Road Nashville, TN 37211	USG 3209 USG 3244	USG 3350 USG 3592

Public Wheat Varieties Entered

University of Arkansas 115 Plant Science Bldg. Fayetteville, AR 72701	AR Pat	
University of Florida 155 Research Blvd. Quincy, FL 32351	FL91226	
University of Georgia UGA-CAES-Griffin Campus 1109 Experiment St. Griffin, GA 30223	GA-951079-2E31(Exp.) GA-951216-2E26 (Exp.) GA-96229-3A41 (Exp.)	GA-951395-3E25 (Exp.) GA-951395-3A31 (Exp.) GA-96229-3E39 (Exp.)
Louisiana State University LSU Dept. of Agronomy 221 M.B. Sturgis Hall Baton Rouge, LA 70803	LA95135D54-2-3-C (Exp.) LA97113UC-124-3-B (Exp.) LA98094BUB-58-5-B (Exp.)	

Public and Commercial Oat Brands/Varieties Entered

University of Arkansas 115 Plant Science Bldg. Fayetteville, AR 72701	AR York (was ARO 258-7)	
University of Florida 155 Research Blvd. Quincy, FL 32351	FL 0047-P7 (Exp.) FL 99123-P9 (Exp.) FL 99201-D29-E1 (Exp.)	FL 99212-D6 (Exp.) LA FL9912 (Exp.)
Louisiana State University LSU Dept. of Agronomy 221 M.B. Sturgis Hall Baton Rouge, LA 70803	LA966BSB-270-S2-C (Exp.) LA97006GBS-22-B-S2 (Exp.) LA Terral Trophy (was LA98010SBS-58)	LA9825SBSB-59-C (Exp.) LA99017SBSB-46 (Exp.)
Ragan & Massey, Inc. 100 Ponchatoula Pkwy. Ponchatoula, LA 70454	Plot Spike 9339	
Terral Seed, Inc. P.O. Box 826 Lake Providence, LA 71254	Terral Secretariat LA495	

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