

Mississippi Wheat and Oat Variety Trials, 2004

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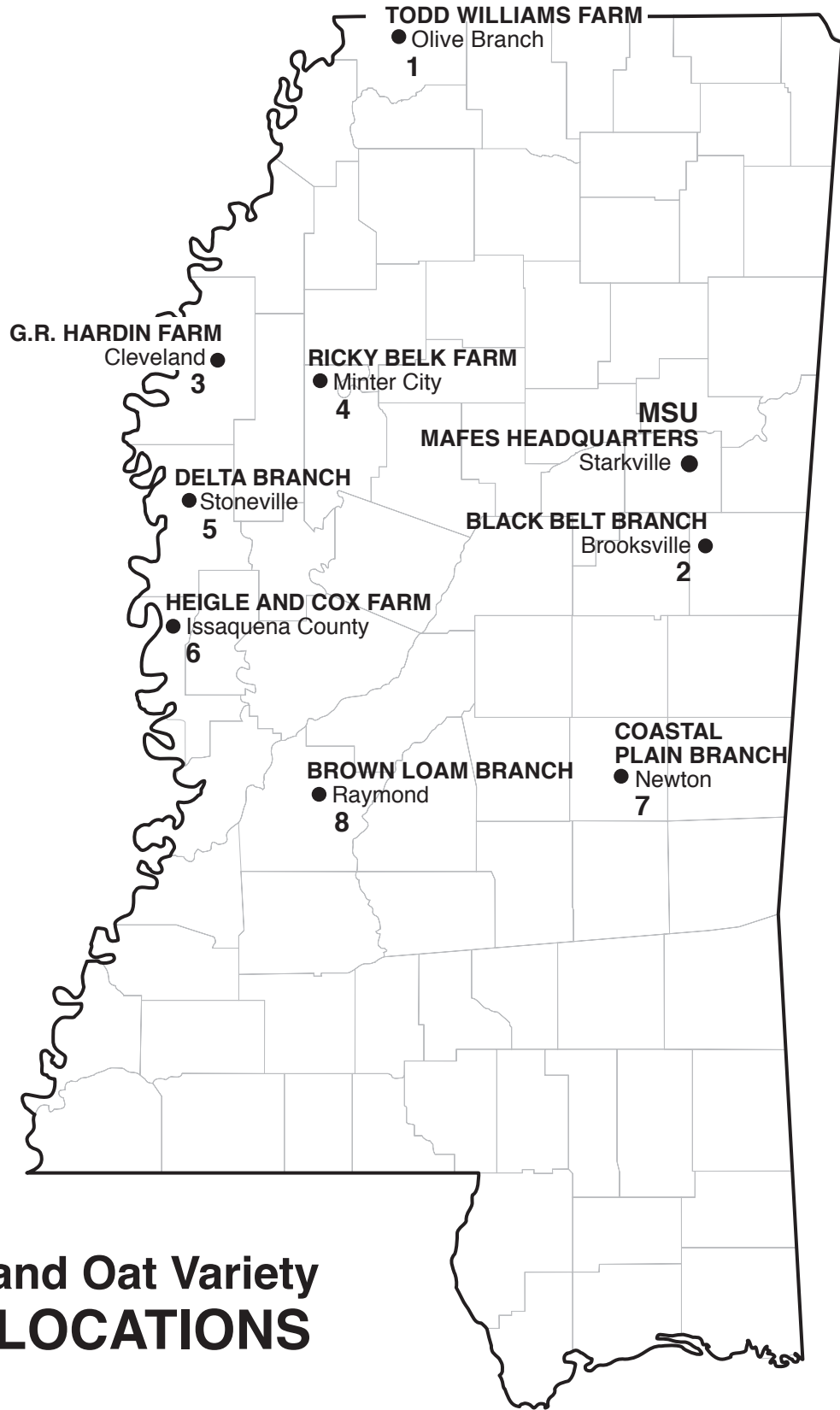
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Recognition is given to Jessie L. Selvie and Jerry W. Nail, research technicians for the Variety Testing Program, for their assistance in packaging, planting, harvesting, and recording plot data; and Robert Goss, student worker in the Department of Experimental Statistics, for statistical analyses and computing assistance. This document was prepared by Jimmie Cooper, administrative secretary for MAFES Research Support Units. It was published by the Office of Agricultural Communications a unit of the Division of Agriculture, Forestry, and Veterinary Medicine at Mississippi State University.



Wheat and Oat Variety TEST LOCATIONS



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INTRODUCTION

Small grains are grown throughout Mississippi. Wheat is the primary crop, followed by oats. Wheat and oat variety trials were conducted at eight locations in Mississippi in 2003-2004. Wheat yields in the range of 40 to 60 bushels per acre were common, and yields in the 60- to 80-bushel range were produced under good management and favorable weather conditions. Oat yields from 50 to 80 bushels per acre were 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 20-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 1-5 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 2 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 25-30 plants per square foot.

Cold Requirements. Winter varieties of small grains require a certain amount of cold weather (less than 40 degrees 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. 05
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 12.

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 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 30-40 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 MCES 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 for. 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, Hernando.

Conditions for planting were good and wheat was planted into moist soil. Growing conditions were good through boot stage. Wet weather was experienced during pollination until harvest. Disease pressure was not significant. Harvest was completed during favorable weather.

Location 2 - Black Belt Branch, Brooksville. Wheat

& oats were planted into good soil moisture. Plants emerged to a good stand. Overall weather conditions for the growing season consisted of average rainfall and no extreme periods of cold temperatures. These favorable conditions produced good yields. Although harvest was slightly delayed by rainfall yields were not affected.

Location 3 - G. R. Harden Farm, Cleveland. Wheat

plots were planted on time and quickly emerged to a good stand. Weather conditions during the growing season contained mild temperatures with a seasonal low of 21 degrees. The spring was wet. In some plots, disease pressure was noted and in-field ratings were taken. No fungicides were applied. Harvest was completed on time.

Location 4 - Ricky Belk Farm, Minter City. The

wheat plots were planted into a good minimum-till seedbed. Wet weather reduced the plant population in some plots. Grazing by geese, followed by deer grazing affected the plots. After heading, rust developed in some of the varieties. Rain delayed harvest by one week.

Location 5 - Delta Branch, Stoneville. The wheat and

oat variety trials were planted into a seedbed prepared by double disking, field cultivating and cultipacking prior to planting. The growing season was favorable for good wheat development. Periods of rainfall throughout February and early March delayed the topdress application of nitrogen. Harvest was completed under favorable conditions.

Location 6 - Heigle & Cox Farm, Issaquena

County. Weather was average through the season. There were no extremely cold temperatures during the growing season. There were periods of heavy rain in February, April and mid-to-late-May. Insect and disease pressure were light in this test through the season.

Location 7 - Coastal Plain Branch, Newton. Weather

conditions for wheat and oat production were near optimum levels this year. Adequate moisture at planting promoted seedling germination and growth. Adequate moisture late in the season promoted head development but did not promote diseases. Dry conditions prior to harvest allowed for fast dry down and harvest was complete quickly.

Location 8 - Brown Loam Branch, Raymond. The

growing season had near normal weather for 2004. Temperatures were moderate and rainfall amounts from October through April were near the average. There was only a slight delay in harvest due to rainfall. Disease and insect pressure were not significant.

Table 1. 2003-04 wheat yields at Todd Williams Farm, Olive Branch (Collins silt loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield ²	3-Year avg. yield ²	Test weight	Seed weight	Date headed ³	Plant height	Lodging score ⁴
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Dixie 9512	90.5	—	—	55	32.5	—	47	1
Genesis R063	86.4	—	—	55	32.2	—	44	1
LA9560CA22-1	84.1	—	—	59	32.8	—	41	1
Genesis R043	83.4	—	—	54	28.4	—	44	1
Dixie 959	82.2	—	—	53	29.1	—	47	1
Dixie 9812	81.8	—	—	54	30.9	—	46	1
HBK 3266	81.6	—	—	54	30.0	—	40	1
DK XTJ241	81.2	—	—	57	29.7	—	43	1
Genesis R047	81.1	—	—	54	33.0	—	40	1
Genesis R033	80.6	—	—	55	27.7	—	41	1
Progeny EK Exp 160	80.5	—	—	50	30.0	—	47	1
Delta Grow 4200	80.4	—	—	55	27.8	—	42	1
Genesis R023	80.4	—	—	55	27.4	—	41	1
TVX82H01	80.0	—	—	56	29.7	—	45	1
Progeny 166	79.8	—	—	53	30.1	—	42	1
USG 3350	79.2	—	—	53	29.9	—	44	1
SS 560	79.2	—	—	50	25.3	—	37	1
Progeny 110	79.0	—	—	53	32.1	—	45	1
Delta King 7900	78.7	—	—	53	28.0	—	50	1
SS 520	78.6	—	—	55	34.7	—	42	1

Continued.

Table 1 (continued). 2003-04 wheat yields at Todd Williams Farm, Olive Branch (Collins silt loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield ²	3-Year avg. yield ²	Test weight	Seed weight	Date headed ³	Plant height	Lodging score ⁴
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Dixie 922	78.3	—	—	52	28.5	—	48	1
Dixie 900	77.4	—	—	55	29.2	—	48	1
TVX81H04	76.5	—	—	55	26.6	—	41	1
Genesis M86	76.2	—	—	54	26.3	—	41	1
Progeny 145	75.9	—	—	56	31.3	—	44	1
AgriPro Beretta	75.8	—	—	50	24.9	—	37	1
AGS 2485	75.6	—	—	57	30.2	—	45	1
Delta King 9410	75.3	—	—	52	27.7	—	45	1
Progeny 133	74.4	—	—	53	31.6	—	44	1
USG 3430	74.4	—	—	52	26.2	—	45	1
HBK 3030	74.1	—	—	53	28.2	—	38	1
Delta Grow 4500	73.3	—	—	54	27.6	—	41	1
UGA931233-E17	72.7	—	—	55	27.6	—	43	2
Armor AXR 5888	72.6	—	—	50	28.1	—	41	1
Terral TV8565	72.3	—	—	55	28.9	—	37	1
Progeny EK Exp 150	72.3	—	—	51	31.7	—	44	1
Pioneer variety 26R38	71.0	—	—	56	35.1	—	43	1
DK XTJ247	70.6	—	—	55	27.7	—	45	1
AgriPro Natchez	70.3	—	—	50	29.2	—	40	2
HBK 3106	70.0	—	—	55	30.8	—	41	1
AGS 2000	69.6	—	—	56	33.4	—	40	1
Pioneer 26R15	69.5	—	—	50	27.3	—	38	1
Terral TV8450	69.4	—	—	54	30.1	—	43	1
LA95181BUR40-1	68.6	—	—	52	32.0	—	42	1
AgriPro Savage	68.4	—	—	53	23.0	—	36	1
SS 535	68.0	—	—	54	28.0	—	39	1
Delta Grow 4888	66.4	—	—	51	25.5	—	45	1
NK Coker 9152	66.3	—	—	55	29.4	—	43	1
Progeny 156	66.2	—	—	52	28.4	—	44	1
Delta King 9216	65.8	—	—	51	27.9	—	46	1
Armor AXR 5109	65.6	—	—	55	27.6	—	40	1
NK Coker 9375	65.2	—	—	48	26.5	—	43	1
AR Sabbe	65.0	—	—	52	29.3	—	41	1
AgriPro Panola	64.3	—	—	53	24.8	—	41	1
Vigoro Tribute	64.1	—	—	58	30.3	—	35	1
DK XTJ251	64.0	—	—	54	29.6	—	40	1
Terral LA422	63.0	—	—	54	28.3	—	36	1
USG 3592	62.6	—	—	54	27.6	—	43	1
AR910-9-1	62.5	—	—	54	31.0	—	43	1
Genesis R024	62.5	—	—	53	28.4	—	39	1
DK XTJ253	62.0	—	—	51	22.9	—	39	1
LA925C104-2	61.7	—	—	57	27.4	—	36	1
TV8502	60.6	—	—	55	28.6	—	39	1
USG 3209	60.1	—	—	52	30.1	—	37	1
TVX82P201	59.6	—	—	55	26.7	—	35	1
Pioneer variety 26R12	59.6	—	—	55	31.5	—	39	1
LA925C104-1-3-B-4	59.3	—	—	57	26.6	—	38	1
DK XTJ261	58.9	—	—	55	29.1	—	36	1
NK Coker 9663	57.6	—	—	54	27.0	—	40	1
Delta King 7777	57.5	—	—	51	21.3	—	46	1
Armor 3035	57.4	—	—	50	24.7	—	41	1
Pioneer variety 26R58	56.9	—	—	51	28.4	—	32	1
Terral LA841	53.6	—	—	56	27.5	—	39	1
Terral TV8466	52.2	—	—	52	24.5	—	37	1
Delta King 1551	50.2	—	—	50	21.7	—	38	1
VA McCormick	49.2	—	—	55	23.5	—	29	1
AR839	44.2	—	—	50	18.4	—	35	1
USG 3709	43.2	—	—	50	30.6	—	47	1
Armor AXR 5110	42.9	—	—	51	22.1	—	39	1
Pioneer variety 26R61	41.8	—	—	52	37.6	—	41	1
AR Pat	39.0	—	—	51	20.1	—	32	1
DK XTJ239	31.8	—	—	51	19.9	—	36	1
Overall Mean	68.1	—	—					
LSD (.10)	14.7	—	—					
Error degrees of freedom	243	—	—					
CV (%)	18.5	—	—					
R ² (%)	56	—	—					

¹Planted Oct. 29, 2003 Harvested June 9, 2004 Soil fertility: pH=6.3; P=H ; K=H Fertilizer added: Topdress - 32% N @ 80 lb/A
 Herbicide: None Previous Crop: Corn

²No 2-or 3-year averages.

³No heading dates taken.

⁴See "Procedures" for a description of lodging scores.

Table 2. 2003-04 wheat yields at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield ²	Test weight	Seed weight	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
HBK 3266	102.0	—	—	57	34.2	04/07	37	1
AGS 2000	101.3	73.7	—	56	36.7	04/12	37	1
VA McCormick	101.3	70.6	—	56	32.7	04/05	32	1
Dixie 9512	101.3	73.4	—	58	34.9	04/06	42	2
Pioneer variety 26R58	100.6	70.1	—	56	37.2	04/05	34	1
AGS 2485	100.4	68.3	—	57	33.4	04/05	36	1
Genesis R063	100.2	—	—	57	31.9	04/09	42	1
Genesis R043	100.0	73.5	—	57	32.4	04/12	41	1
Pioneer variety 26R38	99.3	74.7	—	57	45.0	04/12	37	1
AgriPro Panola	98.4	—	—	56	31.6	04/02	37	1
USG 3209	97.5	70.7	—	58	40.7	04/09	32	1
HBK 3106	95.8	73.3	—	58	36.5	04/05	39	1
Dixie 959	95.7	—	—	59	36.3	04/09	42	1
Pioneer 26R15	95.5	—	—	58	35.6	04/13	31	1
AgriPro Beretta	95.2	—	—	56	34.9	04/12	32	1
DK XTJ251	95.2	—	—	57	37.4	04/05	39	1
Genesis R023	94.3	70.2	—	57	33.7	04/12	40	2
Dixie 900	94.1	71.6	—	58	37.7	04/06	43	1
Pioneer variety 26R12	93.9	63.0	—	59	39.6	04/06	32	1
DK XTJ253	93.8	—	—	55	31.9	04/09	37	1
Dixie 922	93.8	66.4	—	57	34.3	04/05	41	2
LA95181BUR40-1	93.6	—	—	55	33.1	04/08	40	1
Genesis R024	92.7	67.5	—	56	36.8	04/05	38	1
Dixie 9812	90.8	—	—	55	34.0	04/05	40	1
Delta Grow 4500	90.7	70.0	—	56	31.8	04/09	41	2
Delta Grow 4200	90.5	68.0	—	56	30.6	04/07	41	1
SS 560	90.3	67.7	—	58	32.4	04/06	33	1
USG 3592	90.1	—	—	58	32.4	04/12	43	2
TVX82P201	89.9	—	—	58	35.1	04/05	40	1
DK XTJ239	88.6	—	—	58	31.5	04/05	40	1
Progeny 145	88.1	65.2	—	55	30.3	04/05	41	1
Terral LA422	88.0	63.8	—	56	29.1	04/12	40	3
Genesis R047	87.5	—	—	55	33.8	04/12	36	4
Terral TV8466	87.4	64.3	—	57	34.3	04/05	38	1
Terral LA841	87.3	59.3	—	55	29.5	04/09	36	1
SS 535	87.2	64.1	—	58	32.5	04/06	34	1
LA9560CA22-1	86.4	—	—	60	35.6	04/12	39	1
Pioneer variety 26R61	86.1	61.7	—	59	46.9	04/06	34	1
USG 3430	85.7	64.2	—	58	33.9	04/12	37	1
LA925C104-1-3-B-4	85.7	—	—	57	31.7	04/05	36	2
AR839	85.6	—	—	57	30.1	04/14	34	1
LA925C104-2	85.3	—	—	57	29.1	04/12	34	2
Delta King 1551	85.2	59.6	—	57	27.9	04/07	35	2
Vigoro Tribute	85.2	62.9	—	59	34.2	04/09	30	2
UGA931233-E17	85.0	—	—	56	34.7	04/12	39	1
AR Pat	85.0	57.6	—	58	31.6	04/09	39	1
NK Coker 9663	84.3	62.6	—	58	34.9	04/05	40	1
Genesis M86	84.3	65.9	—	56	32.8	04/05	42	1
Terral TV8565	83.7	62.9	—	56	31.3	04/09	41	2
Armor AXR 5888	83.3	—	—	55	30.7	04/07	40	1
Progeny EK Exp 150	83.3	—	—	55	31.7	04/07	39	1
Progeny 166	82.4	63.6	—	55	32.2	04/06	40	1
TVX82H01	82.2	65.9	—	57	30.9	04/09	38	1
Armor AXR 5109	82.2	—	—	57	29.5	04/07	40	1
AgriPro Savage	81.8	62.5	—	58	29.7	04/07	33	2
USG 3709	81.8	61.5	—	55	37.8	04/06	41	2
Delta King 9216	81.8	60.7	—	55	32.9	04/06	38	2
Delta Grow 4888	81.7	68.2	—	56	31.7	04/09	40	1
Armor AXR 5110	81.6	—	—	58	33.3	04/14	36	1
Progeny 110	81.4	63.5	—	55	30.7	04/09	40	1
AgriPro Natchez	81.0	63.4	—	56	36.4	04/07	39	1
TV8502	80.9	62.3	—	57	29.7	04/05	43	1
TVX81H04	80.8	64.9	—	56	28.3	04/05	43	1
Armor 3035	80.8	63.0	—	56	32.1	04/07	40	1
NK Coker 9152	80.6	60.1	—	56	34.9	04/05	40	1
Terral TV8450	79.8	62.9	—	57	31.3	04/12	42	1
AR Sabbe	79.0	58.9	—	55	33.6	04/12	37	1
Progeny EK Exp 160	79.0	—	—	55	30.5	04/06	38	1
SS 520	78.8	60.5	—	54	35.6	04/12	37	1
Delta King 9410	78.8	61.3	—	56	33.4	04/07	40	1
HBK 3030	78.7	61.0	—	59	31.5	04/05	38	1
DK XTJ241	78.5	—	—	57	34.5	04/07	42	2
Genesis R033	77.6	59.6	—	58	34.7	04/12	41	1

Continued.

Table 2 (continued). 2003-04 wheat yields at MAFES Black Belt Branch, Brooksville (Brooksville silty clay soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield ²	Test weight	Seed weight	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
USG 3350	75.8	58.8	—	58	36.3	04/09	37	1
DK XTJ247	75.3	—	—	57	30.6	04/07	40	1
Progeny 133	75.0	—	—	55	29.6	04/12	40	1
Delta King 7900	73.3	59.0	—	56	29.8	04/12	40	2
NK Coker 9375	72.8	56.7	—	53	31.6	04/05	39	2
DK XTJ261	72.4	—	—	56	35.1	04/09	34	1
Progeny 156	71.9	59.6	—	54	30.0	04/06	40	1
AR910-9-1	71.2	—	—	54	34.4	04/09	40	1
Delta King 7777	70.0	52.3	—	57	29.1	04/05	37	2
Overall Mean	86.6	61.4	—					
LSD (.10)	12.5	8.0	—					
Error degrees of freedom	241	252	—					
CV (%)	12.3	14.6	—					
R ² (%)	51	92	—					

¹Planted Oct. 24, 2003 Harvested June 10, 2004 Soil fertility: pH=6.4; P=M ; K=M
 Fertilizer added: Preplant - 13-13-13 @ 300 lb/A (10-15-03); Topdress - 34-0-0 @ 265 lb/A (3-18-04)
 Herbicide: None Previous Crop: Soybeans

²No 3-year average.

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

Table 3. 2003-04 wheat yields at G. R. Harden Farm, Cleveland (Forestdale silt loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Dixie 959	97.2	—	—	58	30.4	04/11	46	2
Genesis R033	96.5	86.8	—	59	31.4	04/11	47	2
LA95181BUR40-1	95.9	—	—	55	32.6	04/06	44	3
Terral LA841	92.0	79.6	73.7	56	27.5	04/07	48	2
Dixie 900	91.8	87.0	82.5	58	31.1	04/10	44	2
DK XTJ253	90.7	—	—	59	25.3	04/14	40	2
Genesis R063	90.2	—	—	56	29.8	04/07	50	4
Delta King 7900	89.2	81.5	79.7	57	28.4	04/09	47	2
Genesis R043	89.1	83.6	—	57	30.8	04/07	49	3
USG 3350	88.9	81.1	—	59	30.4	04/11	48	2
Pioneer variety 26R61	88.8	73.4	70.0	60	38.3	04/06	45	1
Dixie 922	87.9	80.2	—	56	27.8	04/10	45	4
Dixie 9812	87.5	—	—	57	30.4	04/07	42	3
Progeny 166	87.2	80.4	79.7	57	27.4	04/13	42	2
Armor AXR 5110	86.2	—	—	59	28.2	04/13	41	1
DK XTJ239	86.1	—	—	59	27.3	04/13	43	1
Genesis R024	85.6	75.7	71.6	55	29.5	04/14	44	4
Progeny 110	85.5	80.7	—	56	30	04/08	47	3
Dixie 9512	85.4	82.8	81.4	57	27.3	04/07	47	3
Delta Grow 4200	85.2	79.3	77.7	58	30.7	04/12	46	2
NK Coker 9152	85.2	80.8	75.0	58	32.8	04/11	43	2
Genesis R023	85.0	80.3	80.4	58	30.5	04/08	45	3
LA9560CA22-1	84.9	—	—	60	30	04/07	42	2
USG 3430	84.6	79.0	—	57	28.6	04/07	46	3
TV8502	84.5	82.5	—	58	30.1	04/13	45	3
AR Pat	84.5	77.3	71.4	58	28.8	04/17	44	1
NK Coker 9375	84.5	73.4	—	57	31.4	04/15	44	1
Genesis M86	84.2	77.7	75.7	57	30.3	04/11	44	2
Armor AXR 5888	84.1	—	—	59	31.2	04/12	41	1
TVX82H01	83.9	79.7	—	57	27.3	04/11	45	3
Pioneer 26R15	83.4	—	—	55	25.9	04/10	40	2
Delta King 9410	83.1	77.4	74.7	57	30.5	04/12	47	3
Terral TV8450	82.6	78.7	75.0	55	29.5	04/14	40	2
AR910-9-1	82.6	—	—	57	30.3	04/07	44	2
Delta Grow 4888	82.3	76.1	70.8	57	29.1	04/09	42	2
Delta Grow 4500	82.2	76.2	—	56	29	04/09	45	2
Terral TV8565	81.7	76.5	76.1	56	29.1	04/09	45	2
Progeny 145	81.7	78.3	76.4	56	29.1	04/09	44	2
Progeny 133	81.3	—	—	55	28.1	04/09	45	3
Pioneer variety 26R12	81.1	75.2	74.8	59	30.1	04/09	43	2
Progeny EK Exp 150	80.8	—	—	56	28.2	04/13	46	3
Genesis R047	80.6	—	—	55	30.7	04/07	40	4
DK XTJ241	79.4	—	—	57	27.7	04/09	46	3
Progeny EK Exp 160	79.2	—	—	55	28.5	04/13	42	3

Continued.

Table 3 (continued). 2003-04 wheat yields at G. R. Harden Farm, Cleveland (Forestdale silt loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
USG 3209	79.0	72.9	72.5	55	30.3	04/05	38	4
AgriPro Beretta	78.8	—	—	59	28.1	04/13	40	2
AR839	78.6	—	—	58	25.6	04/13	44	1
AgriPro Panola	78.2	—	—	58	27.6	04/09	41	3
UGA931233-E17	78.2	—	—	59	30	04/09	46	3
Pioneer variety 26R58	77.2	72.8	—	55	27.2	04/09	40	1
TVX81H04	77.0	75.2	—	56	28.4	04/07	45	3
AgriPro Natchez	76.7	76.5	72.7	58	35.2	04/15	45	1
NK Coker 9663	76.3	69.3	67.0	57	27.4	04/08	44	4
AgriPro Savage	75.7	71.9	70.3	60	26.6	04/16	41	3
Armor 3035	75.2	71.2	—	57	30.5	04/13	43	1
Progeny 156	74.7	73.0	72.0	53	26.9	04/15	42	3
Delta King 9216	73.8	73.0	69.8	53	23.7	04/13	45	4
Armor AXR 5109	73.6	—	—	58	27.3	04/14	44	2
DK XTJ247	73.4	—	—	58	28.3	04/15	46	4
Terral TV8466	72.9	68.9	67.1	56	30.7	04/07	39	3
HBK 3266	70.0	—	—	57	26.8	04/07	40	3
Delta King 1551	69.5	66.6	65.2	56	26.9	04/15	41	3
HBK 3030	69.0	67.2	—	55	25.4	04/08	40	3
VA McCormick	68.8	66.5	68.1	58	25.2	04/14	37	4
AGS 2000	65.5	66.1	68.9	51	23.9	04/06	39	3
HBK 3106	63.8	66.7	—	50	22.5	04/06	45	3
AR Sabbe	63.2	64.8	65.0	56	28.1	04/14	43	1
USG 3592	62.8	—	—	56	22.4	04/11	43	4
Delta King 7777	61.9	63.5	66.9	58	27.3	04/13	44	2
SS 535	61.9	61.7	63.2	56	21	04/11	39	3
Vigoro Tribute	61.5	61.3	62.8	53	21.6	04/13	35	4
DK XTJ251	55.2	—	—	52	22.8	04/08	39	4
DK XTJ261	55.0	—	—	58	26.3	04/12	40	4
USG 3709	51.5	57.0	62.1	52	23.7	04/10	44	4
TVX82P201	50.4	—	—	51	21.6	04/12	40	4
LA925C104-1-3-B-4	49.1	—	—	51	19.5	04/11	38	4
Pioneer variety 26R38	47.7	61.0	61.0	50	26	04/06	44	3
SS 560	47.5	56.1	—	54	19.8	04/11	40	4
Terral LA422	46.5	54.8	57.1	45	18.8	04/12	42	4
AGS 2485	41.0	47.9	—	45	19.3	04/06	38	3
SS 520	40.3	51.9	53.0	51	20.6	04/07	39	4
LA925C104-2	39.9	—	—	50	18.1	04/11	41	4
Overall Mean	76.0	72.8	70.9					
LSD (.10)	9.4	5.4	5.0					
Error degrees of freedom	243	312	315					
CV (%)	10.6	8.9	10.4					
R ² (%)	80	80	81					
¹ Planted Oct. 17, 2003 Harvested June 7, 2004 Soil fertility: pH=7.1; P=H; K=H								
Fertilizer added: At Planting - DAP @ 100 lb/A; Topdress - 41-0-0 @ 150 lb/A (2/20/04) & (3/4/04)								
Herbicide: Harmony Extra @ 0.5 oz/A + NIS @ 0.5% (3/9/04) Previous Crop: Corn								
² See "Procedures" for a description of lodging scores.								

Table 4. 2003-04 wheat yields at Ricky Belk Farm, Minter City (Forestdale silt loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Terral LA841	87.9	85.7	81.1	56	34.8	04/12	37	1
AGS 2485	82.7	82.9	—	60	35.6	04/19	40	1
Genesis R024	82.5	86.4	76.7	56	32.7	04/19	37	1
Terral TV8466	80.9	79.1	75.7	56	35.6	04/19	37	1
Delta Grow 4200	79.4	75.9	74.0	58	34.9	04/19	41	1
DK XTJ253	79.2	—	—	55	28.2	04/19	35	1
Pioneer variety 26R12	77.8	79.3	75.1	58	35.6	04/19	34	1
TVX81H04	77.2	79.1	—	57	34.4	04/19	41	1
Progeny EK Exp 160	77.0	—	—	55	32.0	04/19	36	1
Progeny 110	76.7	77.8	—	56	32.6	04/19	40	1
TV8502	76.5	81.1	—	57	34.7	04/19	39	1
LA925C104-2	75.7	—	—	60	31.5	04/19	32	1
NK Coker 9663	75.5	75.2	—	57	34.6	04/19	41	1
Progeny EK Exp 150	75.4	—	—	58	35.0	04/19	40	1
Progeny 133	74.4	—	—	54	34.1	04/19	39	1
Genesis R023	74.1	76.1	74.2	55	31.0	04/19	38	1
USG 3430	73.7	81.9	—	56	31.9	04/15	40	1
Continued.								

Table 4 (continued). 2003-04 wheat yields at Ricky Belk Farm, Minter City (Forestdale silt loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Delta King 1551	71.3	76.6	71.7	55	28.4	04/19	34	1
Genesis R033	71.0	75.4	—	54	30.8	04/19	38	1
DK XTJ241	71.0	—	—	55	33.6	04/19	42	1
HBK 3106	70.7	79.5	—	57	38.5	04/12	36	1
Terral TV8450	70.6	71.5	71.2	58	35.3	04/19	40	1
AR Pat	70.4	81.2	75.1	55	29.8	04/23	36	1
Armor AXR 5888	69.6	—	—	55	29.2	04/19	36	1
AGS 2000	69.4	81.8	80.6	57	39.6	04/15	39	1
UGA931233-E17	69.0	—	—	57	35.3	04/12	36	1
Genesis R063	68.9	—	—	56	32.2	04/19	40	1
Terral LA422	68.8	74.5	69.5	55	35.2	04/19	35	1
Dixie 9812	68.4	—	—	58	35.9	04/12	39	1
Genesis M86	67.8	74.4	73.2	55	33.1	04/19	41	1
Progeny 156	67.6	71.3	68.9	56	32.6	04/19	36	1
Pioneer variety 26R38	67.5	73.3	69.9	57	40.7	04/15	37	1
NK Coker 9375	67.3	76.1	—	55	32.1	04/19	40	1
Delta Grow 4888	67.1	69.1	71.0	57	32.2	04/19	39	1
Dixie 959	67.0	—	—	54	30.8	04/19	34	1
Dixie 922	67.0	71.9	—	54	31.3	04/19	38	1
Armor AXR 5109	66.8	—	—	56	32.7	04/19	40	1
AR839	66.8	—	—	56	28.8	04/19	36	1
Terral TV8565	66.6	72.3	70.7	55	32.8	04/19	42	1
TVX82H01	66.2	74.6	—	56	34.8	04/19	38	1
LA9560CA22-1	65.9	—	—	57	31.1	04/12	34	1
SS 560	65.7	73.5	—	56	29.7	04/15	34	1
TVX82P201	65.5	—	—	55	30.2	04/12	33	1
AgriPro Savage	65.3	78.6	70.3	58	27.6	04/19	32	1
Progeny 145	65.3	77.6	76.7	56	33.1	04/15	40	1
NK Coker 9152	65.3	79.7	75.8	58	34.7	04/19	38	1
SS 535	65.2	73.4	67.1	54	33.1	04/19	34	1
Delta Grow 4500	65.1	71.8	—	56	32.9	04/12	40	1
DK XTJ251	65.0	—	—	55	32.4	04/19	31	1
USG 3592	64.5	—	—	54	28.0	04/19	34	1
Armor 3035	64.4	69.5	—	54	30.0	04/19	38	1
HBK 3266	64.0	—	—	56	34.5	04/15	29	1
Progeny 166	64.0	65.0	69.1	57	32.7	04/19	37	1
Armor AXR 5110	63.2	—	—	56	26.1	04/19	34	1
Delta King 9216	63.0	68.3	67.4	55	31.0	04/19	36	1
Delta King 7900	62.8	68.9	67.9	55	30.2	04/19	39	1
AgriPro Natchez	62.1	71.3	72.8	57	30.9	04/19	36	1
USG 3350	61.0	63.6	—	57	30.6	04/19	37	1
LA925C104-1-3-B-4	60.8	—	—	58	32.5	04/19	33	1
VA McCormick	60.8	69.8	70.8	57	26.9	04/19	31	1
Pioneer 26R15	60.6	—	—	56	30.4	04/19	30	1
USG 3709	60.5	66.9	65.0	55	36.6	04/19	36	1
Delta King 7777	60.2	68.4	66.2	55	24.7	04/19	35	1
Genesis R047	60.2	—	—	55	32.4	04/12	31	1
AR Sabbe	59.8	69.4	68.6	52	31.5	04/19	35	1
LA95181BUR40-1	59.8	—	—	60	36.6	04/15	34	1
Vigoro Tribute	59.8	74.7	71.7	58	26.3	04/19	34	1
Genesis R043	59.0	75.0	—	56	30.2	04/19	39	1
SS 520	57.9	65.4	63.3	57	29.8	04/12	34	1
Pioneer variety 26R61	57.7	68.9	65.6	61	43.9	04/12	35	1
DK XTJ239	57.6	—	—	56	27.3	04/19	37	1
DK XTJ247	56.6	—	—	55	30.7	04/19	32	1
USG 3209	56.3	71.0	69.3	54	33.9	04/15	—	—
AR910-9-1	55.5	—	—	56	34.6	04/19	36	1
DK XTJ261	54.9	—	—	60	32.7	04/19	33	1
AgriPro Beretta	54.9	—	—	54	29.3	04/23	30	1
Dixie 9512	54.4	69.1	71.2	55	29.9	04/19	39	1
Delta King 9410	53.5	67.9	66.7	55	30.6	04/19	38	1
AgriPro Panola	53.0	—	—	56	30.1	04/19	32	1
Pioneer variety 26R58	52.7	73.6	—	57	35.3	04/19	29	1
HBK 3030	52.4	62.7	—	54	29.1	04/15	—	—
Dixie 900	49.8	66.8	69.8	54	28.6	04/23	34	1
Overall Mean	66.3	75.5	72.3					
LSD (.10)	14.8	8.1	6.8					
Error degrees of freedom	158	255	269					
CV (%)	15.5	12.1	13.3					
R ² (%)	48	68	63					

¹Planted Nov. 5, 2003 Harvested June 8, 2004 Soil fertility: pH=5.5; P=H+; K=M
Fertilizer added: 18-46-0 @ 100 lb/A (11-6-03); Topdress - 46-0-0 @ 100 lb/A (2-21-04) & (3-12-04)
Herbicide: 2,4-D Lo-Vol @ 1.5 pt/A (2-21-04) Previous Crop: Soybeans

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

Table 5. 2003-04 wheat yields at MAFES Delta Branch, Stoneville (Tunica silty clay soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield ²	3-Year avg. yield ²	Test weight	Seed weight	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Terral LA841	104.2	—	—	59	36.2	04/06	37	1
Delta Grow 4200	101.2	—	—	61	36.6	04/14	41	1
Genesis R047	100.1	—	—	59	37.7	04/06	32	1
HBK 3266	96.8	—	—	60	36.4	04/06	37	1
DK XTJ241	96.1	—	—	60	36.1	04/14	41	1
Armor 3035	94.9	—	—	60	36.7	04/14	38	1
NK Coker 9152	93.2	—	—	60	39.6	04/14	35	1
Progeny 110	92.5	—	—	59	36.2	04/14	38	1
AR839	92.0	—	—	60	32.6	04/14	34	1
LA925C104-1-3-B-4	91.8	—	—	61	30.9	04/08	29	1
HBK 3106	90.4	—	—	61	37.8	04/06	33	1
NK Coker 9375	89.9	—	—	59	37.8	04/14	34	1
Genesis R024	89.0	—	—	60	35.9	04/14	31	1
Pioneer 26R15	88.9	—	—	57	32.0	04/14	29	1
SS 560	88.1	—	—	58	33.7	04/14	32	1
Genesis R023	87.6	—	—	61	35.4	04/14	38	1
Armor AXR 5888	87.5	—	—	61	37.2	04/08	32	1
TVX81H04	87.4	—	—	60	33.9	04/08	45	1
LA925C104-2	87.3	—	—	60	31.8	04/14	31	1
Genesis R033	87.2	—	—	61	37.0	04/14	39	1
AR Pat	87.1	—	—	60	34.3	04/14	41	1
VA McCormick	86.9	—	—	62	29.9	04/14	31	1
USG 3709	86.4	—	—	59	39.4	04/14	28	1
Armor AXR 5110	85.9	—	—	60	32.1	04/14	30	1
Progeny 145	85.5	—	—	59	37.7	04/08	39	1
NK Coker 9663	85.3	—	—	60	36.5	04/06	35	1
Genesis R043	84.4	—	—	60	34.1	04/14	38	1
Genesis M86	84.4	—	—	60	34.3	04/14	38	1
SS 520	84.2	—	—	57	37.6	04/06	34	1
AGS 2485	83.8	—	—	61	37.2	04/06	32	1
Progeny EK Exp 150	83.5	—	—	61	35.1	04/14	39	1
Dixie 9812	83.4	—	—	59	37.5	04/08	36	1
Dixie 922	83.0	—	—	59	32.8	04/14	39	1
TVX82P201	82.6	—	—	59	36.5	04/06	37	1
SS 535	82.4	—	—	61	35.1	04/14	30	1
AGS 2000	82.2	—	—	62	41.4	04/07	36	1
AgriPro Panola	82.0	—	—	61	35.1	04/08	31	1
Progeny 133	81.7	—	—	60	36.3	04/14	40	1
DK XTJ253	81.7	—	—	60	32.3	04/14	25	1
USG 3430	81.6	—	—	59	32.1	04/08	30	1
Pioneer variety 26R58	81.6	—	—	58	34.4	04/08	21	1
Terral TV8450	81.1	—	—	60	36.8	04/14	36	1
AgriPro Beretta	81.1	—	—	60	34.3	04/14	33	1
LA9560CA22-1	80.8	—	—	61	35.2	04/06	33	1
USG 3592	80.7	—	—	60	34.8	04/08	35	1
UGA931233-E17	79.8	—	—	60	31.9	04/14	29	1
Dixie 9512	79.3	—	—	57	34.5	04/08	33	1
Pioneer variety 26R38	79.3	—	—	58	43.8	04/14	28	1
Terral TV8466	79.3	—	—	60	39.4	04/14	33	1
USG 3350	79.1	—	—	56	34.7	04/14	32	1
AR910-9-1	78.7	—	—	60	34.0	04/14	34	1
Progeny EK Exp 160	78.6	—	—	59	32.9	04/14	34	1
AgriPro Savage	77.4	—	—	61	31.2	04/14	33	1
TVX82H01	75.9	—	—	60	36.0	04/06	42	1
Terral LA422	75.9	—	—	59	31.4	04/06	34	1
Dixie 959	75.7	—	—	59	34.8	04/14	34	1
Delta King 9410	75.4	—	—	58	34.1	04/14	30	1
TV8502	75.2	—	—	62	36.3	04/14	43	1
Armor AXR 5109	75.2	—	—	60	31.6	04/14	32	1
Delta Grow 4888	74.3	—	—	61	32.8	04/14	40	1
LA95181BUR40-1	74.3	—	—	59	35.9	04/06	33	1
Progeny 166	74.0	—	—	59	34.0	04/14	35	1
AgriPro Natchez	72.6	—	—	58	36.1	04/14	32	1
Pioneer variety 26R61	72.6	—	—	59	43.4	04/06	35	1
Pioneer variety 26R12	72.1	—	—	60	40.0	04/14	31	1
USG 3209	71.7	—	—	60	40.2	04/06	28	1
DK XTJ247	70.5	—	—	59	30.8	04/14	34	1
Vigoro Tribute	70.2	—	—	63	34.5	04/14	31	1
Terral TV8565	69.6	—	—	60	36.2	04/14	43	1
Genesis R063	68.2	—	—	60	34.6	04/14	36	1
DK XTJ239	67.9	—	—	58	29.1	04/14	25	1
AR Sabbe	65.9	—	—	57	35.1	04/14	34	2
Progeny 156	65.7	—	—	59	34.8	04/14	32	1
Delta King 9216	65.1	—	—	57	33.1	04/14	27	1

Continued.

Table 5 (continued). 2003-04 wheat yields at MAFES Delta Branch, Stoneville (Tunica silty clay soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield ²	3-Year avg. yield ²	Test weight	Seed weight	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
DK XTJ251	63.8	—	—	58	36.9	04/14	27	2
Delta Grow 4500	62.9	—	—	60	34.2	04/14	40	1
Delta King 1551	59.0	—	—	55	27.7	04/14	24	1
Delta King 7900	56.3	—	—	57	30.4	04/14	30	1
Delta King 7777	55.5	—	—	57	27.6	04/14	33	1
HBK 3030	55.3	—	—	60	31.9	04/14	28	1
Dixie 900	52.3	—	—	58	33.9	04/14	32	1
DK XTJ261	49.6	—	—	58	36.1	04/14	27	1
Overall Mean	79.6	—	—					
LSD (.10)	26.7	—	—					
Error degrees of freedom	81	—	—					
CV (%)	20.1	—	—					
R ² (%)	51	—	—					
¹ Planted Oct. 23, 2003		Harvested June 9, 2004		Soil fertility: pH=5.9; P=M; K=H				
Fertilizer added: Topdress - 34-0-0 @ 300 lb/A (3-19-04)								
Herbicide: None Previous Crop: Soybeans								
² No 2- or 3-year averages.								
³ See "Procedures" for a description of lodging scores.								

Table 6. 2003-04 wheat yields at Heigle & Cox Farm, Issaquena County (Sharkey clay soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
AgriPro Beretta	80.1	—	—	59	31.0	04/10	34	1
Progeny 145	79.4	74.0	71.5	57	30.8	04/16	37	1
LA95181BUR40-1	78.2	—	—	59	35.9	04/09	33	2
Genesis R033	76.7	73.9	—	59	32.1	04/16	34	1
Terral TV8565	76.6	73.9	71.3	58	32.0	04/15	36	1
Genesis R063	76.4	—	—	57	34.1	04/07	36	2
AgriPro Natchez	76.1	76.5	69.4	58	33.8	04/16	33	1
AGS 2000	75.6	74.4	71.8	60	36.0	04/09	32	1
Genesis R047	75.5	—	—	59	32.9	04/09	36	1
Genesis R023	75.3	75.4	72.8	59	32.5	04/15	37	1
Delta King 7777	75.0	66.5	67.7	57	30.4	04/16	36	1
HBK 3106	74.7	76.4	—	57	31.7	04/12	30	1
Genesis R043	74.5	71.6	—	58	32.0	04/16	36	1
Dixie 959	74.1	—	—	57	33.3	04/14	37	1
NK Coker 9663	73.7	75.2	—	57	34.3	04/12	34	1
TVX82P201	73.5	—	—	58	35.3	04/12	36	1
DK XTJ247	73.5	—	—	59	34.5	04/15	36	1
Genesis M86	73.5	70.4	69.6	59	35.5	04/07	34	2
Progeny 133	73.3	—	—	57	31.6	04/15	36	1
Pioneer variety 26R58	73.0	71.6	—	59	40.0	04/13	30	1
Dixie 922	72.7	67.5	—	57	35.7	04/15	34	1
Terral TV8466	72.6	66.3	63.3	57	36.0	04/06	31	1
Terral LA841	72.6	75.0	71.8	59	33.5	04/10	34	1
AgriPro Panola	72.5	—	—	59	32.7	04/08	33	2
Armor AXR 5110	72.5	—	—	59	30.7	04/13	37	1
TVX82H01	72.4	68.7	—	58	32.6	04/15	36	1
Dixie 900	72.3	70.5	70.5	58	34.1	04/16	36	1
DK XTJ253	72.2	—	—	58	27.7	04/15	29	1
HBK 3030	71.8	66.9	—	58	33.4	04/12	29	1
Pioneer variety 26R12	71.8	71.6	70.4	59	34.7	04/16	31	1
Pioneer variety 26R61	71.7	74.7	68.9	60	38.9	04/15	30	1
UGA931233-E17	71.7	—	—	58	34.8	04/10	32	1
SS 535	71.5	67.6	63.2	59	31.1	04/09	32	1
Delta King 7900	71.4	72.9	68.7	58	30.9	04/17	38	1
Dixie 9512	71.4	68.5	67.7	59	32.3	04/13	38	1
Dixie 9812	71.2	—	—	59	31.4	04/15	37	1
USG 3350	71.1	70.0	—	57	30.4	04/19	30	1
Pioneer variety 26R38	71.1	67.8	66.1	58	35.2	04/09	32	1
Delta King 1551	71.1	73.4	73.0	57	25.6	04/16	36	1
DK XTJ241	70.9	—	—	58	32.1	04/16	37	1
Vigoro Tribute	70.8	71.2	66.7	59	35.5	04/11	31	1
Progeny 166	70.7	70.5	70.9	56	29.8	04/18	31	1
NK Coker 9375	70.5	67.3	—	58	37.3	04/10	36	1
Progeny 156	70.4	69.5	67.0	57	32.3	04/16	31	1
HBK 3266	70.2	—	—	59	29.9	04/10	33	1
Continued.								

Table 6 (continued). 2003-04 wheat yields at Heigle & Cox Farm, Issaquena County (Sharkey clay soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Delta King 9410	70.0	70.7	69.9	57	33.7	04/15	34	1
AR Pat	69.6	68.3	68.0	58	30.6	04/15	31	1
Terral LA422	69.6	62.5	61.8	59	33.2	04/14	35	1
Terral TV8450	69.1	69.9	69.0	59	35.9	04/15	35	1
Delta Grow 4500	69.1	69.2	—	60	39.4	04/10	31	1
Progeny 110	68.6	70.0	—	58	35.6	04/16	33	1
AR910-9-1	68.5	—	—	59	32.6	04/11	36	1
Delta Grow 4200	68.4	67.5	67.8	59	—	04/17	35	1
Delta Grow 4888	68.4	64.3	63.8	58	32.4	04/17	33	1
Progeny EK Exp 160	68.3	—	—	59	31.0	04/18	34	1
USG 3209	68.3	68.8	66.8	59	34.3	04/18	28	1
LA925C104-1-3-B-4	68.2	—	—	59	31.9	04/15	30	2
SS 520	68.1	58.9	55.0	58	33.8	04/10	33	1
VA McCormick	68.0	71.9	68.4	59	31.0	04/19	35	1
SS 560	67.9	61.9	—	57	32.9	04/06	31	1
Genesis R024	67.8	66.8	62.6	59	34.4	04/15	37	1
LA925C104-2	67.8	—	—	59	35.1	04/12	33	2
DK XTJ239	67.4	—	—	57	29.8	04/15	34	1
AR Sabbe	67.4	60.1	59.1	58	36.5	04/10	36	2
TV8502	67.3	71.7	—	58	33.1	04/16	38	1
Pioneer 26R15	67.3	—	—	58	38.1	04/10	31	1
LA9560CA22-1	67.3	—	—	58	30.6	04/15	30	1
USG 3592	67.0	—	—	58	29.4	04/16	34	1
Armor 3035	66.7	66.0	—	58	34.1	04/10	36	2
AR839	66.2	—	—	57	33.8	04/15	33	1
Armor AXR 5888	66.2	—	—	59	32.4	04/12	36	1
TVX81H04	66.1	69.0	—	58	33.7	04/15	33	1
DK XTJ261	66.0	—	—	60	31.4	04/17	34	1
Armor AXR 5109	66.0	—	—	61	32.7	04/16	35	1
AgriPro Savage	65.8	70.0	69.3	59	29.0	04/14	35	1
Progeny EK Exp 150	65.7	—	—	58	29.1	04/18	39	1
Delta King 9216	65.1	66.1	65.7	58	32.2	04/15	35	1
USG 3709	65.1	63.4	64.0	57	31.9	04/18	34	1
AGS 2485	63.3	65.2	—	59	32.7	04/17	30	1
NK Coker 9152	63.0	73.0	70.4	59	32.6	04/12	36	1
USG 3430	60.5	65.3	—	58	32.6	04/18	34	1
Overall Mean	70.5	69.5	67.6					
LSD (.10)	9.2	5.7	4.3					
Error degrees of freedom	238	308	302					
CV (%)	11.1	9.8	9.4					
R ² (%)	25	51	61					
¹ Planted Nov. 13, 2003		Harvested June 16, 2004		Soil fertility: pH=6.0; P=M+; K=M+		Fertilizer added: N @ 100 lb/A (2-25-04)		
Herbicide: None		Previous Crop: Corn						
² See "Procedures" for a description of lodging scores.								

Table 7. 2003-04 wheat yields at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Genesis R047	102.9	—	—	60	37.9	03/29	35	1
Pioneer 26R15	101.7	—	—	61	35.0	04/05	33	1
UGA931233-E17	100.2	—	—	61	33.5	03/31	37	4
LA95181BUR40-1	99.0	—	—	62	38.3	03/29	41	1
Genesis R024	98.7	86.7	75.4	61	37.9	04/07	32	1
SS 560	98.3	88.2	—	60	33.7	04/05	33	1
USG 3592	96.9	—	—	63	33.0	04/05	38	4
USG 3209	96.0	86.1	77.7	61	40.8	04/02	30	2
AGS 2485	93.9	83.1	—	62	37.0	04/02	35	1
DK XTJ253	93.7	—	—	59	31.4	04/05	34	2
HBK 3266	93.5	—	—	62	35.9	03/29	36	2
AGS 2000	92.1	81.4	70.7	61	41.0	04/02	33	2
AgriPro Panola	91.3	—	—	59	32.2	04/02	35	3
Pioneer variety 26R12	91.0	79.1	73.1	62	35.5	04/05	34	1
Vigoro Tribute	90.9	84.8	73.0	64	34.8	04/07	33	1
AgriPro Beretta	90.8	—	—	61	34.0	04/07	33	1
AR910-9-1	90.8	—	—	61	37.1	04/02	38	2
Armor AXR 5109	90.5	—	—	62	33.0	04/07	38	1
LA925C104-1-3-B-4	90.2	—	—	61	32.8	04/05	31	2
Continued.								

Table 7 (continued). 2003-04 wheat yields at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
NK Coker 9152	89.8	84.0	73.6	60	34.0	03/29	38	2
VA McCormick	89.4	83.1	74.2	62	31.8	04/05	32	1
LA925C104-2	89.3	—	—	62	34.0	04/05	31	2
AgriPro Natchez	88.8	81.5	72.9	59	35.8	04/05	38	2
HBK 3106	88.8	81.6	—	61	38.6	03/29	35	1
Terral LA422	88.7	81.0	68.5	60	33.4	04/05	34	1
LA9560CA22-1	88.7	—	—	64	36.6	03/29	40	1
Genesis R063	87.6	—	—	60	34.0	04/05	36	1
AgriPro Savage	87.5	82.9	73.9	62	29.7	04/05	33	1
SS 520	86.1	78.2	70.0	59	37.0	03/31	36	1
Terral LA841	85.8	77.3	65.4	60	33.8	03/29	33	1
AR839	85.3	—	—	60	29.8	04/05	33	1
AR Sabbe	85.1	74.8	67.0	60	36.0	04/07	41	1
DK XTJ251	84.5	—	—	60	37.4	04/07	35	1
DK XTJ261	84.5	—	—	61	36.0	04/07	35	1
Pioneer variety 26R58	84.4	80.2	—	57	34.7	04/02	35	1
TVX82P201	84.3	—	—	59	34.0	04/02	34	1
HBK 3030	84.3	78.9	—	61	33.2	04/09	34	1
Delta King 1551	84.0	80.7	74.3	60	32.4	04/05	34	1
Delta King 7777	83.6	74.9	67.8	60	29.1	04/07	39	1
Terral TV8466	83.4	78.2	71.1	59	36.0	04/07	33	1
Dixie 9812	82.4	—	—	59	33.1	04/02	36	1
Dixie 9512	82.4	79.1	71.1	61	36.0	04/02	38	1
Pioneer variety 26R38	82.3	76.7	65.6	62	42.7	04/02	36	1
Armor AXR 5110	81.6	—	—	61	29.9	04/05	36	1
AR Pat	81.0	76.0	69.9	61	31.0	04/09	39	1
DK XTJ239	80.5	—	—	60	32.0	04/05	38	1
Genesis R023	80.3	76.9	69.6	60	33.3	04/07	37	1
DK XTJ247	80.1	—	—	62	31.8	04/07	38	1
TVX82H01	80.1	77.5	—	59	33.1	04/05	34	1
Dixie 900	79.8	78.8	70.6	60	33.9	04/07	40	1
Delta King 9216	79.6	74.7	65.7	60	36.7	04/07	40	2
Genesis R043	79.2	78.0	—	61	35.2	04/07	38	1
NK Coker 9663	78.2	72.5	64.4	62	36.1	03/29	36	3
USG 3709	78.2	73.4	62.6	59	34.2	04/05	36	1
Dixie 922	77.5	74.6	—	60	31.6	04/07	38	1
NK Coker 9375	77.1	72.4	—	59	33.9	04/05	37	2
Pioneer variety 26R61	76.6	74.1	65.4	62	43.4	04/02	36	1
SS 535	75.9	75.4	68.3	62	34.3	04/07	35	1
Delta Grow 4200	75.5	75.3	69.7	60	34.0	04/09	36	1
Genesis M86	75.4	74.0	69.4	60	34.2	04/09	37	1
Terral TV8565	74.9	73.9	66.1	60	32.8	04/09	39	1
Delta King 7900	74.5	75.3	68.0	60	32.8	04/07	39	1
Armor AXR 5888	73.7	—	—	60	29.7	04/05	36	1
Genesis R033	73.6	75.7	—	61	35.6	04/09	40	1
Terral TV8450	73.5	74.2	67.9	59	32.0	04/07	38	1
Dixie 959	73.3	—	—	61	34.0	04/07	40	1
Progeny EK Exp 160	73.3	—	—	60	33.6	04/09	35	1
TV8502	73.2	73.6	—	60	34.0	04/09	37	1
Progeny 145	72.1	70.3	65.2	59	33.0	04/07	34	1
Progeny 156	71.7	71.3	63.2	60	35.4	04/09	37	1
Delta King 9410	70.7	71.1	66.1	60	32.7	04/07	38	1
Progeny 166	70.5	72.0	67.1	60	34.4	04/07	36	1
USG 3430	69.6	71.1	—	60	31.7	04/05	37	1
Delta Grow 4500	68.4	70.0	—	59	33.5	04/07	35	1
Progeny 133	67.8	—	—	59	31.3	04/07	37	1
TVX81H04	66.9	69.8	—	60	33.0	04/07	36	1
Armor 3035	66.7	68.3	—	60	30.5	04/07	38	1
Progeny 110	65.7	69.6	—	61	33.6	07/07	38	1
DK XTJ241	64.4	—	—	60	33.5	04/07	34	1
USG 3350	64.2	69.3	—	59	32.2	04/07	37	1
Delta Grow 4888	63.5	66.4	61.7	59	31.8	04/07	36	1
Progeny EK Exp 150	62.4	—	—	59	32.5	04/09	36	1
Overall Mean	82.1	76.6	69.1					
LSD (.10)	9.3	5.3	4.1					
Error degrees of freedom	243	312	315					
CV (%)	9.7	8.4	8.7					
R ² (%)	69	68	87					

¹Planted Nov. 11, 2003 Harvested May 27, 2004 Soil fertility: pH=6.5; P=H ; K=H
Fertilizer added: Topdress - 13-13-13 @ 250 lb/A (12/2/03); 34-0-0 @ 295 lb/A (2/18/04)
Herbicide: None Previous Crop: Wheat
²See "Procedures" for a description of lodging scores.

Table 8. 2003-04 wheat yields at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield ²	3-Year avg. yield ²	Test weight	Seed weight	Date headed ³	Plant height	Lodging score ⁴
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Dixie 959	88.5	—	—	56	37.1	—	42	2
Progeny 133	80.3	—	—	56	32.7	—	38	2
DK XTJ251	78.8	—	—	56	38.2	—	33	1
Dixie 922	78.8	—	—	56	35.0	—	44	2
Genesis M86	78.3	—	—	55	34.3	—	38	1
Genesis R024	77.3	—	—	57	41.3	—	34	1
Genesis R043	77.1	—	—	56	32.4	—	39	1
Progeny EK Exp 150	77.0	—	—	56	34.4	—	36	2
Progeny EK Exp 160	76.7	—	—	55	32.1	—	39	3
Dixie 900	75.6	—	—	57	37.0	—	40	2
AgriPro Beretta	75.4	—	—	56	32.4	—	38	1
AR Pat	75.3	—	—	57	35.9	—	37	1
USG 3709	74.7	—	—	56	40.9	—	39	1
Genesis R023	74.7	—	—	57	32.8	—	35	1
Genesis R033	74.3	—	—	56	36.3	—	38	1
Progeny 110	73.7	—	—	57	35.9	—	39	1
TVX81H04	72.5	—	—	56	33.8	—	37	2
Delta Grow 4200	70.5	—	—	56	36.9	—	40	1
AgriPro Panola	70.3	—	—	55	36.1	—	33	1
DK XTJ253	70.1	—	—	57	34.8	—	36	1
Progeny 156	70.0	—	—	54	31.0	—	34	2
TV8502	70.0	—	—	56	34.5	—	38	2
Pioneer 26R15	70.0	—	—	55	29.9	—	30	1
Delta King 9216	69.7	—	—	56	36.3	—	37	2
LA925C104-1-3-B-4	69.2	—	—	58	34.8	—	31	2
Pioneer variety 26R58	68.8	—	—	55	33.1	—	25	1
Terral TV8450	68.8	—	—	56	33.0	—	35	1
Terral TV8565	68.5	—	—	56	33.7	—	35	1
Delta King 1551	68.4	—	—	56	31.8	—	32	1
DK XTJ241	68.3	—	—	56	36.0	—	38	2
Progeny 166	67.6	—	—	55	34.8	—	37	2
AgriPro Savage	67.3	—	—	57	31.5	—	32	1
AR839	67.1	—	—	56	33.3	—	35	1
DK XTJ247	66.7	—	—	58	34.0	—	36	1
USG 3430	66.3	—	—	56	34.9	—	42	1
Armor 3035	66.3	—	—	56	36.0	—	38	2
Delta King 7900	66.3	—	—	57	33.9	—	37	1
Armor AXR 5888	66.3	—	—	56	34.5	—	39	1
Pioneer variety 26R12	66.2	—	—	58	36.4	—	31	1
Progeny 145	66.0	—	—	56	34.5	—	39	1
USG 3350	66.0	—	—	56	34.4	—	39	1
TVX82P201	65.8	—	—	57	37.5	—	36	2
Dixie 9512	65.5	—	—	56	37.3	—	44	1
LA925C104-2	65.1	—	—	57	35.1	—	35	2
SS 535	64.8	—	—	58	32.7	—	36	2
AGS 2485	64.8	—	—	57	36.0	—	36	1
AGS 2000	64.7	—	—	58	43.9	—	35	1
Delta Grow 4888	64.7	—	—	56	33.1	—	37	2
Dixie 9812	64.6	—	—	57	34.3	—	32	1
Delta King 9410	64.5	—	—	57	35.8	—	38	1
LA9560CA22-1	63.4	—	—	58	38.3	—	37	1
Delta Grow 4500	63.2	—	—	56	33.4	—	39	2
Terral TV8466	63.0	—	—	57	39.1	—	30	2
Genesis R063	62.9	—	—	57	35.6	—	41	1
AR Sabbe	62.6	—	—	55	38.2	—	34	1
AgriPro Natchez	62.3	—	—	57	35.9	—	37	1
TVX82H01	61.9	—	—	57	36.3	—	35	2
DK XTJ239	61.5	—	—	57	34.9	—	36	1
HBK 3266	61.4	—	—	58	37.5	—	34	1
Armor AXR 5109	61.3	—	—	57	32.7	—	37	1
NK Coker 9375	61.2	—	—	54	40.6	—	35	1
Armor AXR 5110	60.8	—	—	56	31.5	—	31	1
Delta King 7777	59.9	—	—	56	31.4	—	39	1
Pioneer variety 26R38	59.3	—	—	57	44.8	—	35	1
HBK 3030	57.5	—	—	55	30.5	—	35	2
Pioneer variety 26R61	57.4	—	—	59	45.2	—	30	1
Vigoro Tribute	57.3	—	—	60	36.8	—	33	1
VA McCormick	55.7	—	—	60	33.8	—	33	1
HBK 3106	55.5	—	—	58	44.0	—	37	1
LA95181BUR40-1	54.7	—	—	58	41.2	—	34	1
DK XTJ261	53.9	—	—	55	34.2	—	28	1
USG 3209	52.8	—	—	57	43.3	—	29	1
UGA931233-E17	52.1	—	—	57	34.0	—	34	1

Continued.

Table 8 (continued). 2003-04 wheat yields at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield ²	3-Year avg. yield ²	Test weight	Seed weight	Date headed ³	Plant height	Lodging score ⁴
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
USG 3592	51.7	—	—	57	38.0	—	36	2
Terral LA422	51.5	—	—	58	37.3	—	29	2
AR910-9-1	51.4	—	—	59	44.2	—	37	1
NK Coker 9663	47.4	—	—	57	38.0	—	36	2
Genesis R047	47.2	—	—	58	40.6	—	34	1
NK Coker 9152	46.0	—	—	56	39.9	—	38	1
Terral LA841	43.9	—	—	56	36.6	—	29	1
SS 560	43.8	—	—	57	35.7	—	28	1
SS 520	35.3	—	—	58	42.5	—	32	1
Overall Mean	64.7	—	—					
LSD (.10)	9.8	—	—					
Error degrees of freedom	243	—	—					
CV (%)	13.0	—	—					
R ² (%)	69	—	—					

¹Planted Nov. 11, 2003 Harvested June 10, 2004
 Fertilizer added: Topdress - 34-0-0 @ 265 lb/A (3-26-04)

Soil fertility: pH=6.5; P=H; K=M
 Herbicide: None

Previous Crop: Fallow

²No 2- or 3-year averages.

³Heading dates not taken.

⁴See "Procedures" for a description of lodging scores.

Table 9. Yield summary of 2003-04 wheat variety trials in Mississippi.

Brand/Variety	Brookville	Hernando	North Avg.	Newton	Raymond	South Avg.	Cleveland	Issaquena	Minter City	Stoneville	Delta Avg.	Overall Avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriPro Beretta	95.2	75.8	86.1	90.8	75.4	83.1	78.8	80.1	54.9	81.1	73.4	79.0
AgriPro Natchez	81.0	70.3	77.2	88.8	62.3	75.6	76.7	76.1	62.1	72.6	71.7	74.1
AgriPro Savage	81.8	68.4	76.2	87.5	67.3	77.4	75.7	65.8	65.3	77.4	70.8	73.8
AgriPro Panola	98.4	64.3	83.4	91.3	70.3	80.8	78.2	72.5	53.0	82.0	71.3	76.7
AGS 2000	101.3	69.6	88.6	92.1	64.7	78.4	65.5	75.6	69.4	82.2	73.0	78.3
AGS 2485	100.4	75.6	90.6	93.9	64.8	79.3	41.0	63.3	82.7	83.8	67.5	76.2
AR Pat	85.0	39.0	61.8	81.0	75.3	78.1	84.5	69.6	70.4	87.1	77.9	73.9
AR Sabbe	79.0	65.0	73.3	85.1	62.6	73.8	63.2	67.4	59.8	65.9	64.1	68.8
AR 839	85.6	44.2	66.3	85.3	67.1	76.3	78.6	66.2	66.8	92.0	75.7	73.5
AR 910-9-1 (Exp.)	71.2	62.5	66.2	90.8	51.4	71.1	82.6	68.5	55.5	78.7	71.2	69.9
Armor 3035	80.8	57.4	71.2	66.7	66.3	66.5	75.2	66.7	64.4	94.9	75.2	72.0
Armor AXR 5888 (Exp.)	83.3	72.6	79.0	73.7	66.3	70.0	84.1	66.2	69.6	87.5	76.5	75.5
Armor AXR 5110 (Exp.)	81.6	42.9	62.4	81.6	60.8	71.2	86.2	72.5	63.2	85.9	76.9	71.9
Armor AXR 5109 (Exp.)	82.2	65.6	75.8	90.5	61.3	75.9	73.6	66.0	66.8	75.2	70.6	73.2
Delta Grow 4200	90.5	80.4	86.0	75.5	70.5	73.0	85.2	68.4	79.4	101.2	83.3	81.4
Delta Grow 4500	90.7	73.3	84.6	68.4	63.2	65.8	82.2	69.1	65.1	62.9	69.7	72.4
Delta Grow 4888	81.7	66.4	77.5	63.8	64.7	64.1	82.3	68.4	67.1	74.3	72.8	71.8
Delta King 1551	85.2	50.2	67.3	84.0	68.4	76.2	69.5	71.1	71.3	59.0	67.5	69.7
Delta King 7777	70.0	57.5	62.8	83.6	59.9	71.8	61.9	75.0	60.2	55.5	63.0	65.2
Delta King 7900	73.3	78.7	76.6	74.5	66.3	70.4	89.2	71.4	62.8	56.3	69.8	71.6
Delta King 9216	81.8	65.8	75.1	79.6	69.7	74.7	73.8	65.1	63.0	65.1	66.4	70.7
Delta King 9410	78.8	75.3	76.8	70.7	64.5	67.6	83.1	70.0	53.5	75.4	70.5	71.3
Delta King XTJ241 (Exp.)	78.5	81.2	81.9	64.4	68.3	66.3	79.4	70.9	71.0	96.1	79.2	76.6
Delta King XTJ239 (Exp.)	88.6	31.8	61.5	80.5	61.5	71.0	86.1	67.4	57.6	67.9	69.8	68.0
Delta King XTJ247 (Exp.)	75.3	70.6	71.2	80.1	66.7	73.4	73.4	73.5	56.6	70.5	67.7	70.0
Delta King XTJ251 (Exp.)	95.2	64.0	81.6	84.5	78.8	81.7	55.2	—	65.0	63.8	—	—
Delta King XTJ253 (Exp.)	93.8	62.0	78.8	93.7	70.1	81.9	90.7	72.2	79.2	81.7	80.9	80.6
Delta King XTJ261 (Exp.)	72.4	58.9	67.7	84.5	53.9	69.2	55.0	66.0	54.9	49.6	56.6	62.5
Dixie 900	94.1	77.4	88.0	79.8	75.6	77.7	91.8	72.3	49.8	52.3	66.8	74.8
Dixie 922	93.8	78.3	85.1	77.5	78.8	78.1	87.9	72.7	67.0	83.0	77.3	79.5
Dixie 959	95.7	82.2	90.5	73.3	88.5	80.9	97.2	74.1	67.0	75.7	78.8	82.3
Dixie 9512	101.3	90.5	97.8	82.4	65.5	73.9	85.4	71.4	54.4	79.3	72.9	79.4
Dixie 9812	90.8	81.8	87.4	82.4	64.6	73.5	87.5	71.2	68.4	83.4	77.5	79.0
Genesis M86	84.3	76.2	81.9	75.4	78.3	76.9	84.2	73.5	67.8	84.4	77.4	78.4
Genesis R023	94.3	80.4	89.6	80.3	74.7	77.5	85.0	75.3	74.1	87.6	80.4	81.9
Genesis R024	92.7	62.5	80.5	98.7	77.3	88.0	85.6	67.8	82.5	89.0	81.1	82.7
Genesis R033	77.6	80.6	77.3	73.6	74.3	74.0	96.5	76.7	71.0	87.2	82.9	79.3
Genesis R043	100.0	83.4	93.4	79.2	77.1	78.1	89.1	74.5	59.0	84.4	77.0	81.4
Genesis R047 (Exp.)	87.5	81.1	85.8	102.9	47.2	75.1	80.6	75.5	60.2	100.1	79.0	79.7
Genesis R063 (Exp.)	100.2	86.4	98.0	87.6	62.9	75.3	90.2	76.4	68.9	68.2	75.6	81.1
HBK 3030	78.7	74.1	78.4	84.3	57.5	70.9	69.0	71.8	52.4	55.3	62.1	68.4
HBK 3106	95.8	70.0	84.3	88.8	55.5	72.1	63.8	74.7	70.7	90.4	74.9	76.6
HBK 3266	102.0	81.6	90.5	93.5	61.4	77.5	70.0	70.2	64.0	96.8	75.3	79.6
LA925C104-1-3-B4 (Exp.)	85.7	59.3	71.3	90.2	69.2	79.7	49.1	68.2	60.8	91.8	67.5	71.5

Continued.

Table 9 (continued). Yield summary of 2003-04 wheat variety trials in Mississippi.

Brand/Variety	Brooksville	Hernando	North Avg.	Newton	Raymond	South Avg.	Cleveland	Issaquena	Minter City	Stoneville	Delta Avg.	Overall Avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
LA9560CA22-1 (Exp.)	86.4	84.1	87.4	88.7	63.4	76.1	84.9	67.3	65.9	80.8	74.7	78.2
LA925C104-2 (Exp.)	85.3	61.7	73.0	89.3	65.1	77.2	39.9	67.8	75.7	87.3	67.5	71.3
LA9518IBUR40-1 (Exp.)	93.6	68.6	82.8	99.0	54.7	76.8	95.9	78.2	59.8	74.3	76.9	78.3
NK Coker 9152	80.6	66.3	73.4	89.8	46.0	67.9	85.2	63.0	65.3	93.2	76.5	73.6
NK Coker 9663	84.3	57.6	71.2	78.2	47.4	62.8	76.3	73.7	75.5	85.3	77.9	72.5
NK Coker 9375	72.8	65.2	69.9	77.1	61.2	69.2	84.5	70.5	67.3	89.9	77.9	73.7
Pioneer variety 26R12	93.9	59.6	76.7	91.0	66.2	78.6	81.1	71.8	77.8	72.1	75.7	76.7
Pioneer variety 26R15	95.5	69.5	84.8	101.7	70.0	85.8	83.4	67.3	60.6	88.9	75.1	80.2
Pioneer variety 26R38	99.3	71.0	88.5	82.3	59.3	70.8	47.7	71.1	67.5	79.3	66.4	73.0
Pioneer variety 26R58	100.6	56.9	78.2	84.4	68.8	76.6	77.2	73.0	52.7	81.6	71.1	74.3
Pioneer variety 26R61	86.1	41.8	66.6	76.6	57.4	67.0	88.8	71.7	57.7	72.6	72.6	69.7
Progeny 110	81.4	79.0	81.4	65.7	73.7	69.7	85.5	68.6	76.7	92.5	80.5	78.1
Progeny 133	75.0	74.4	76.6	67.8	80.3	74.1	81.3	73.3	74.4	81.7	77.5	76.4
Progeny 145	88.1	75.9	82.7	72.1	66.0	69.1	81.7	79.4	65.3	85.5	77.7	76.7
Progeny 156	71.9	66.2	70.2	71.7	70.0	70.9	74.7	70.4	67.6	65.7	69.4	70.0
Progeny 166	82.4	79.8	85.0	70.5	67.6	69.0	87.2	70.7	64.0	74.0	73.7	75.3
Progeny EK Exp. 150	83.3	72.3	78.5	62.4	77.0	69.7	80.8	65.7	75.4	83.5	76.3	75.2
Progeny EK Exp. 160	79.0	80.5	83.3	73.3	76.7	75.0	79.2	68.3	77.0	78.6	75.7	77.4
SS 520	78.8	78.6	81.9	86.1	35.3	60.7	40.3	68.1	57.9	84.2	62.5	66.9
SS 535	87.2	68.0	79.3	75.9	64.8	70.4	61.9	71.5	65.2	82.4	70.1	72.5
SS 560	90.3	79.2	85.8	98.3	43.8	71.0	47.5	67.9	65.7	88.1	67.3	72.9
Terral LA422	88.0	63.0	76.1	88.7	51.5	70.2	46.5	69.6	68.8	75.9	65.1	69.1
Terral LA841	87.3	53.6	70.8	85.8	43.9	64.9	92.0	72.6	87.9	104.2	89.4	78.6
Terral TV8450	79.8	69.4	75.5	73.5	68.8	71.2	82.6	69.1	70.6	81.1	75.7	74.5
Terral TV8502	80.9	60.6	71.8	73.2	70.0	71.6	84.5	67.3	76.5	75.2	75.8	73.7
Terral TV8565	83.7	72.3	78.1	74.9	68.5	71.7	81.7	76.6	66.6	69.6	73.5	74.2
Terral TV8466	87.4	52.2	69.1	83.4	63.0	73.2	72.9	72.6	80.9	79.3	76.3	73.7
Terral TVX81H04 (Exp.)	80.8	76.5	80.7	66.9	72.5	69.7	77.0	66.1	77.2	87.4	76.8	76.0
Terral TVX82H01 (Exp.)	82.2	80.0	82.1	80.1	61.9	71.0	83.9	72.4	66.2	75.9	74.5	75.5
Terral TVX82P201 (Exp.)	89.9	59.6	78.6	84.3	65.8	75.1	50.4	73.5	65.5	82.6	68.0	72.4
UGA 931233-E17	85.0	72.7	77.5	100.2	52.1	76.2	78.2	71.7	69.0	79.8	74.6	75.7
USG 3209	97.5	60.1	79.6	96.0	52.8	74.4	79.0	68.3	56.3	71.7	69.1	73.1
USG 3350	75.8	79.2	78.6	64.2	66.0	65.1	88.9	71.1	61.0	79.1	74.7	73.3
USG 3430	85.7	74.4	80.0	69.6	66.3	68.0	84.6	60.5	73.7	81.6	75.0	74.5
USG 3709	81.8	43.2	63.8	78.2	74.7	76.5	51.5	65.1	60.5	86.4	65.7	67.9
USG 3592	90.1	62.6	77.7	96.9	51.7	74.3	62.8	67.0	64.5	80.7	68.6	72.3
VA McCormick	101.3	49.2	75.5	89.4	55.7	72.6	68.8	68.0	60.8	86.9	71.1	72.6
Vigoro Tribute	85.2	64.1	79.2	90.9	57.3	74.1	61.5	70.8	59.8	70.2	65.6	71.1
Overall Mean	86.6	68.1	77.0	82.1	64.7	73.4	76.0	70.5	66.3	79.6	72.8	74.0
LSD (.10)	12.5	14.7	10.6	9.3	9.8	6.7	9.4	9.2	14.8	26.7	6.3	4.4
Error degrees of freedom	241	243	403	243	243	486	243	238	158	81	713	1591
CV (%)	12.3	18.5	15.6	9.7	13.0	11.1	10.6	11.1	15.5	20.1	13.3	13.4
R ² (%)	51	56	69	69	69	79	80	25	48	51	66	71

Table 10. 2-Year summary of 2002-03 and 2003-04 yields for wheat variety trials in Mississippi.

Brand/Variety	Brooksville	Newton	Issaquena	Cleveland	Minter City	Delta avg.	Overall avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriPro Natchez	63.4	81.5	76.5	76.5	71.3	74.8	73.8
AgriPro Savage	62.5	82.9	70.0	71.9	78.6	73.4	73.1
AGS 2000	73.7	81.4	74.4	66.1	81.8	74.1	75.5
AGS 2485	68.3	83.1	65.2	47.9	82.9	65.3	69.5
AR Pat	57.6	76.0	68.3	77.3	81.2	75.6	72.1
AR Sabbe	58.9	74.8	60.1	64.8	69.4	64.8	65.6
Armor 3035	63.0	68.3	66.0	71.2	69.5	68.9	67.6
Delta Grow 4200	68.0	75.3	67.5	79.3	75.9	74.2	73.2
Delta Grow 4500	70.0	70.0	69.2	76.2	71.8	72.4	71.3
Delta Grow 4888	68.2	66.4	64.3	76.1	69.1	69.8	68.8
Delta King DK 1551	59.6	80.7	73.4	66.6	76.6	72.2	71.4
Delta King DK 7777	52.3	74.9	66.5	63.5	68.4	66.1	65.1
Delta King DK	59.0	75.3	72.9	81.5	68.9	74.4	71.5
Delta King DK 9216	60.7	74.7	66.1	73.0	68.3	69.2	68.6
Delta King DK 9410	61.3	71.1	70.7	77.4	67.9	72.0	70.0
Dixie 900	71.6	78.8	70.5	87.0	66.8	74.8	74.9
Dixie 922	66.4	74.6	67.5	80.2	71.9	73.2	72.1
Dixie 9512	73.4	79.1	68.5	82.8	69.1	73.5	74.6
Genesis M86	65.9	74.0	70.4	77.7	74.4	74.2	72.5
Genesis R023	70.2	76.9	75.4	80.3	76.1	77.3	75.8
Genesis R024	67.5	86.7	66.8	75.7	86.4	76.3	76.6
Genesis R033	59.6	75.7	73.9	86.8	75.4	78.7	74.3
Genesis R043	73.5	78.0	71.6	83.6	75.0	76.7	76.3
HBK 3030	61.0	78.9	66.9	67.2	62.7	65.6	67.3
HBK 3106	73.3	81.6	76.4	66.7	79.5	74.2	75.5
NK Coker 9152	60.1	84.0	73.0	80.8	79.7	77.8	75.5
NK Coker 9375	56.7	72.4	67.3	73.4	76.1	72.2	69.2
NK Coker 9663	62.6	72.5	75.2	69.3	75.2	73.2	71.0
Pioneer 26R12	63.0	79.1	71.6	75.2	79.3	75.4	73.6
Pioneer 26R38	74.4	76.7	67.8	61.0	73.3	67.4	70.7
Pioneer 26R58	70.1	80.2	71.6	72.8	73.6	72.6	73.7
Pioneer 26R61	61.7	74.1	74.7	73.4	68.9	72.3	70.5
Progeny 110	63.5	69.6	70.0	80.7	77.8	76.1	72.3
Progeny 145	65.2	70.3	74.0	78.3	77.6	76.6	73.1
Progeny 156	59.6	71.3	69.5	73.0	71.3	71.3	68.9
Progeny 166	63.6	72.0	70.5	80.4	65.0	72.0	70.3
SS 520	60.5	78.2	58.9	51.9	65.4	58.7	63.0
SS 535	64.1	75.4	67.6	61.7	73.4	67.6	68.5
SS 560	67.7	88.2	61.9	56.1	73.5	63.7	69.4
Terral LA422	63.8	81.0	62.5	54.8	74.5	63.9	67.3
Terral LA841	59.3	77.3	75.0	79.6	85.7	80.1	75.4
Terral TV8450	62.9	74.2	69.9	78.7	71.5	73.4	71.4
Terral TV8466	64.3	78.2	66.3	68.9	79.1	71.5	71.4
Terral TV8502	62.3	73.6	71.7	82.5	81.1	78.4	74.3
Terral TV8565	62.9	73.9	73.9	76.5	72.3	74.3	71.9
Terral TVX81H04	64.9	69.8	69.0	75.2	79.1	74.4	71.6
Terral TVX82H01	65.9	77.5	68.7	79.7	74.6	74.3	73.3
USG 3209	70.7	86.1	68.8	72.9	71.0	70.9	73.9
USG 3350	58.8	69.3	70.0	81.1	63.6	71.6	68.5
USG 3430	64.2	71.1	65.3	79.0	81.9	75.4	72.3
USG 3709	61.5	73.4	63.4	57.0	66.9	62.4	64.4
VA McCormick	70.6	83.1	71.9	66.5	69.8	69.4	72.4
Vigoro Tribute	62.9	84.8	71.2	61.3	74.7	69.1	71.0
Overall Mean	61.4	76.6	69.5	72.8	75.5	72.5	71.3
LSD (.10)	8.0	5.3	5.7	5.4	8.1	3.6	2.9
Error degrees of freedom	252	312	308	312	255	875	1439
CV (%)	14.6	8.4	9.8	8.9	12.1	10.3	10.6
R ² (%)	92	68	51	80	68	71	84

Table 11. 3-Year summary of 2001-02, 2002-03, and 2003-04 yields for wheat variety trials in Mississippi.

Brand/Variety	Newton	Issaquena	Cleveland	Minter City	Delta avg.	Overall avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriPro Natchez	72.9	69.4	72.7	72.8	71.6	71.9
AgriPro Savage	73.9	69.3	70.3	70.3	70.0	71.0
AGS 2000	70.7	71.8	68.9	80.6	73.8	73.0
AR Pat	69.9	68.0	71.4	75.1	71.5	71.1
AR Sabbe	67.0	59.1	65.0	68.6	64.2	64.9
Delta Grow 4200	69.7	67.8	77.7	74.0	73.1	72.3
Delta Grow 4888	61.7	63.8	70.8	71.0	68.5	66.8
Delta King DK 1551	74.3	73.0	65.2	71.7	70.0	71.1
Delta King DK 7777	67.8	67.7	66.9	66.2	66.9	67.1
Delta King DK 7900	68.0	68.7	79.7	67.9	72.1	71.0
Delta King DK 9216	65.7	65.7	69.8	67.4	67.7	67.2
Delta King DK 9410	66.1	69.9	74.7	66.7	70.4	69.4
Dixie 900	70.6	70.5	82.5	69.8	74.2	73.3
Dixie 9512	71.1	67.7	81.4	71.2	73.4	72.9
Genesis M86	69.4	69.6	75.7	73.2	72.9	72.0
Genesis R023	69.6	72.8	80.4	74.2	75.8	74.2
Genesis R024	75.4	62.6	71.6	76.7	70.3	71.6
NK Coker 9152	73.6	70.4	75.0	75.8	73.7	73.7
NK Coker 9663	64.4	—	67.0	—	—	—
Pioneer 26R12	73.1	70.4	74.8	75.1	73.4	73.3
Pioneer 26R38	65.6	66.1	61.0	69.9	65.6	65.6
Pioneer 26R61	65.4	68.9	70.0	65.6	68.2	67.5
Progeny 145	65.2	71.5	76.4	76.7	74.9	72.5
Progeny 156	63.2	67.0	72.0	68.9	69.3	67.7
Progeny 166	67.1	70.9	79.7	69.1	73.2	71.7
SS 520	70.0	55.0	53.0	63.3	57.1	60.3
SS 535	68.3	63.2	63.2	67.1	64.5	65.4
Terral LA422	68.5	61.8	57.1	69.5	62.8	64.2
Terral LA841	65.4	71.8	73.7	81.1	75.5	73.0
Terral TV8450	67.9	69.0	75.0	71.2	71.7	70.8
Terral TV8466	71.1	63.3	67.1	75.7	68.7	69.3
Terral TV8565	66.1	71.3	76.1	70.7	72.7	71.0
USG 3209	77.7	66.8	72.5	69.3	69.5	71.6
USG 3709	62.6	64.0	62.1	65.0	63.7	63.4
VA McCormick	74.2	68.4	68.1	70.8	69.1	70.4
Vigoro Tribute	73.0	66.7	62.8	71.7	67.1	68.6
Overall Mean	69.1	67.6	70.9	72.3	70.2	70.0
LSD (.10)	4.1	4.3	5.0	6.8	3.1	2.5
Error degrees of freedom	315	302	315	269	877	1183
CV (%)	8.7	9.4	10.4	13.3	11.2	10.6
R ² (%)	87	61	81	63	72	77

Table 12. Wheat varietal reactions to disease in Mississippi.¹

Brand/Variety	Leaf rust ²	Stripe rust ²	Brand/Variety	Leaf rust ²	Stripe rust ²
AgriPro Beretta	R	MS	HBK 3106	R	VS
AgriPro Natchez	—	MR	HBK 3266	—	VS
AgriPro Savage	R	MR	LA925C104-1-3-B4 (Exp.)	—	VS
AgriPro Panola	MR	R	LA9560CA22-1 (Exp.)	R	MS
AGS 2000	R	VS	LA925C104-2 (Exp.)	—	VS
AGS 2485	—	VS	LA9518IBUR40-1 (Exp.)	MR	MR
AR Pat	MR	MR	NK Coker 9152	R	MR
AR Sabbe	MS	MR	NK Coker 9663	MR	S
AR 839	MR	MR	NK Coker 9375	MR	R
AR 910-9-1 (Exp.)	R	MR	Pioneer variety 26R12	R	S
Armor 3035	MR	R	Pioneer variety 26R15	—	MS
Armor AXR 5888 (Exp.)	MR	R	Pioneer variety 26R38	R	VS
Armor AXR 5110 (Exp.)	MR	MR	Pioneer variety 26R58	R	S
Armor AXR 5109 (Exp.)	MR	—	Pioneer variety 26R61	R	—
Delta Grow 4200	MR	R	Progeny 110	MR	R
Delta Grow 4500	MR	MR	Progeny 133	MR	R
Delta Grow 4888	MR	MR	Progeny 145	MR	R
Delta King 1551W	MR	MR	Progeny 156	MR	S
Delta King 7777	MR	MR	Progeny 166	MR	—
Delta King 7900	MR	R	Progeny EK Exp. 150	MR	R
Delta King 9216	R	S	Progeny EK Exp. 160	MR	—
Delta King 9410	MR	MR	SS 520	—	VS
Delta King XTJ241 (Exp.)	MR	R	SS 535	R	VS
Delta King XTJ239 (Exp.)	MR	MR	SS 560	R	VS
Delta King XTJ247 (Exp.)	MR	MR	Terral LA422	—	VS
Delta King XTJ251 (Exp.)	MR	VS	Terral LA841	—	—
Delta King XTJ253 (Exp.)	MR	MS	Terral TV8450	MR	R
Delta King XTJ261 (Exp.)	—	S	Terral TV8502	MR	R
Dixie 900	MR	R	Terral TV8565	MR	R
Dixie 922	MR	MR	Terral TV8466	MR	R
Dixie 959	MR	R	Terral TVX81H04 (Exp.)	MR	R
Dixie 9512	MR	MS	Terral TVX82H01 (Exp.)	MR	R
Dixie 9812	MR	MR	Terral TVX82P201 (Exp.)	—	VS
Genesis M86	MR	R	UGA 931233-E17	R	R
Genesis R023	MR	R	USG 3209	MR	MS
Genesis R024	MR	MR	USG 3350	MR	R
Genesis R033	MR	MR	USG 3430	MR	R
Genesis R043	MR	MR	USG 3709	MR	VS
Genesis R047 (Exp.)	MR	MR	USG 3592	—	VS
Genesis R063 (Exp.)	MR	MR	VA McCormick	MR	MR
HBK 3030	MR	MS	Vigoro Tribute	MR	S

¹Prepared by Dr. David Ingram, Associate Extension/Research Plant Pathologist, Central Mississippi Research & Extension Center, Raymond, MS.

²Diseases rated visually using James' Manual of Assessment Keys for Plant Diseases. Each replicated plot was visually rated for percentage of flag leaf area affected. Values were subjected to analysis of variance and means separated by LSD (P=0.05). The values were compared to a set of arbitrary 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 is not intended to be used as the sole criterion for determination of economic losses. It is recommended that several years data be compared as disease incidence and severity vary from location to location and year to year.

Table 13. Average number of wheat seeds per pound for varieties entered in 2004 variety trials.

Brand/Variety	2003-04 average	2-year average	Brand/Variety	2003-04 average	2-year average
	<i>seeds/lb</i>	<i>seeds/lb</i>		<i>seeds/lb</i>	<i>seeds/lb</i>
AgriPro Beretta	12,070	—	HBK 3106 (was X3106)	11,478	11,483
AgriPro Natchez	12,015	12,464	HBK 3266	13,693	—
AgriPro Savage	17,111	15,530	LA925C104-1-3-B4 (Exp.)	15,507	—
AgriPro Panola	12,617	—	LA9560CA22-1 (Exp.)	11,018	—
AGS 2000	11,004	11,442	LA925C104-2 (Exp.)	12,138	—
AGS 2485	13,243	14,017	LA9518IBUR40-1 (Exp.)	11,947	—
AR Pat	12,877	12,856	NK Coker 9152	12,588	13,044
AR Sabbe	13,664	13,338	NK Coker 9663	11,582	12,025
AR 839	15,431	—	NK Coker 9375	11,223	11,199
AR 910-9-1 (Exp.)	12,444	—	Pioneer variety 26R12	17,225	17,057
Armor 3035	13,389	13,255	Pioneer variety 26R15	13,153	—
Armor AXR 5888 (Exp.)	12,845	—	Pioneer variety 26R38	12,491	11,524
Armor AXR 5110 (Exp.)	16,281	—	Pioneer variety 26R58	13,887	13,776
Armor AXR 5109 (Exp.)	12,476	—	Pioneer variety 26R61	10,497	10,409
Delta Grow 4200	13,872	15,032	Progeny 110	13,842	13,626
Delta Grow 4500	14,658	14,184	Progeny 133	15,051	—
Delta Grow 4888	13,680	13,985	Progeny 145	13,718	13,514
Delta King 1551W	14,762	14,325	Progeny 156	14,553	14,582
Delta King 7777	13,477	14,262	Progeny 166	13,627	13,929
Delta King 7900	13,939	13,839	Progeny EK Exp. 150	12,678	—
Delta King 9216	13,284	13,521	Progeny EK Exp. 160	13,335	—
Delta King 9410	13,738	13,682	SS 520	13,541	12,525
Delta King XTJ241 (Exp.)	13,412	—	SS 535	16,118	13,921
Delta King XTJ239 (Exp.)	16,215	—	SS 560	13,541	13,478
Delta King XTJ247 (Exp.)	11,984	—	Terral LA422	16,831	16,292
Delta King XTJ251 (Exp.)	12,605	—	Terral LA841	12,784	13,849
Delta King XTJ253 (Exp.)	14,575	—	Terral TV8450	14,717	15,087
Delta King XTJ261 (Exp.)	13,778	—	Terral TV8502	13,496	13,463
Dixie 900	13,634	13,733	Terral TV8565	12,201	14,385
Dixie 922	14,334	14,871	Terral TV8466	13,224	12,352
Dixie 959	13,435	—	Terral TVX81H04 (Exp.)	12,523	12,908
Dixie 9512	14,366	13,904	Terral TVX82H01 (Exp.)	12,546	12,660
Dixie 9812	12,678	—	Terral TVX82P201 (Exp.)	13,613	—
Genesis M86	15,391	14,834	UGA 931233-E17	13,707	—
Genesis R023	12,651	13,243	USG 3209	11,395	12,403
Genesis R024	12,779	12,230	USG 3350	14,741	14,031
Genesis R033	13,236	13,475	USG 3430	11,921	12,585
Genesis R043	12,224	12,237	USG 3709	11,422	11,484
Genesis R047 (Exp.)	12,613	—	USG 3592	18,237	—
Genesis R063 (Exp.)	11,979	—	VA McCormick	15,338	14,922
HBK 3030	14,125	14,703	Vigoro Tribute	12,947	12,606

Table 14. Average number of oat seeds per pound for varieties entered in 2004 variety trials.

Brand/Variety	2003-04 average	2-year average	Brand/Variety	2003-04 average	2-year average
	<i>seeds/lb</i>	<i>seeds/lb</i>		<i>seeds/lb</i>	<i>seeds/lb</i>
ARO 213-3 (Exp.)	17,787	—	LA98002SBS-26-B-S1 (Exp.)	12,808	—
ARO 258-7 (Exp.)	16,581	—	LA97006GBS-22-B-S2	15,313	16,336
Horizon 321	15,735	16,046	LA98000SBS-49-B-S1	15,489	16,426
Horizon 314	12,358	13,095	Plot Spike LA 9339	19,811	18,439
Horizon 474	16,410	16,261	Terral Secretariat LA495	17,090	18,981
LA98010SBS-58 (Exp.)	13,115	—			

Table 15. 2003-04 oat yields at MAFES Black Belt Branch, Brooksville (Brooksville silt clay soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield ²	Test weight	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>		<i>in</i>	
Plot Spike LA 9339	83.0	76.0	—	33	04/12	40	4
ARO258-7	82.2	—	—	36	04/16	29	4
Secretariat LA495	80.1	89.1	—	34	04/17	34	5
LA98010SBS-58	79.4	—	—	32	04/16	41	2
ARO213-3	73.2	—	—	31	04/15	30	3
Horizon 321	70.8	67.9	—	35	04/16	38	3
Horizon 314	59.4	42.7	—	29	04/12	35	3
LA97006GBS-22-B-S2	57.1	71.4	—	33	04/15	33	4
LA98002SBS-26-B-S1	55.4	—	—	34	04/09	38	4
LA98009SBS-49-B-S1	44.9	63.7	—	34	04/16	30	2
Horizon 474	37.2	54.9	—	35	04/15	34	2
Overall mean	65.7	66.5	—				
LSD (.10)	16.5	11.2	—				
Error degrees of freedom	30	36	—				
CV (%)	20.9	20.0	—				
R ² (%)	67	79	—				
¹ Planted Oct. 24, 2003		Harvested June 10, 2004		Soil fertility: pH=6.4 ; P=M; K=M			
Fertilizer added: 34-0-0 @ 175 lb/A		Previous Crop: Soybeans					
² No 3-year average.							
³ See "Procedures" for a description of lodging scores.							

Table 16. 2003-04 oat yields at MAFES Delta Branch, Stoneville (Tunica silty clay soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield ²	3-Year avg. yield ²	Test weight	Date headed	Plant height	Lodging score ³
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>		<i>in</i>	
ARO213-3	104.7	—	—	31	04/20	33	1
ARO258-7	98.1	—	—	34	04/14	31	2
Horizon 321	92.9	—	—	35	04/20	33	2
Secretariat LA495	92.1	—	—	31	04/14	36	1
LA98010SBS-58	89.2	—	—	34	04/20	34	2
LA98002SBS-26-B-S1	88.5	—	—	35	04/16	30	1
Plot Spike LA 9339	81.4	—	—	32	04/16	35	1
LA97006GBS-22-B-S2	81.0	—	—	36	04/20	35	1
Horizon 474	80.3	—	—	36	04/20	36	2
LA98009SBS-49-B-S1	79.7	—	—	36	04/14	33	1
Horizon 314	77.4	—	—	30	04/14	39	2
Overall mean	87.8	—	—				
LSD (.10)	16.8	—	—				
Error degrees of freedom	30	—	—				
CV (%)	15.9	—	—				
R ² (%)	43	—	—				
¹ Planted Oct. 23, 2003		Harvested June 9, 2004		Soil fertility: pH=5.9; P=M; K=H			
Fertilizer added: Topdress - 34-0-0 @ 300 lb/A (3-19-04)		Previous Crop: Soybeans					
² No 2- or 3-year averages.							
³ See "Procedures" for a description of lodging scores.							

Table 17. 2003-04 oat yields at MAFES Coastal Plain Branch, Newton (Prentiss very fine sandy loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Date headed	Plant height	Lodging score ²
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>		<i>in</i>	
ARO258-7	127.0	—	—	38	04/15	36	1
Secretariat LA495	108.0	107.2	96.4	34	04/14	42	1
ARO213-3	103.6	—	—	33	04/16	38	1
LA98010SBS-58	95.4	—	—	34	04/09	43	1
Plot Spike LA 9339	95.0	91.9	—	35	04/16	46	2
Horizon 314	87.5	84.4	77.3	34	04/15	44	2
LA98002SBS-26-B-S1	87.3	—	—	35	04/14	44	1
Horizon 321	87.2	94.8	—	36	04/13	41	1
Horizon 474	77.8	84.2	76.6	36	04/07	45	3
LA98009SBS-49-B-S1	73.9	81.6	—	32	04/14	40	1
LA97006GBS-22-B-S2	49.9	81.6	—	31	04/12	40	2
Overall mean	90.2	89.4	83.4				
LSD (.10)	16.5	12.2	10.4				
Error degrees of freedom	30	36	18				
CV (%)	15.2	16.1	17.6				
R ² (%)	82	73	78				
¹ Planted Nov. 11, 2003		Harvested May 27, 2004		Soil fertility: pH=6.5; P=H; K=M		Previous Crop: Oats	
Fertilizer added: Topdress - 34-0-0 @ 235 lb/A (2/18/04)				Herbicide: None			
² See "Procedures" for a description of lodging scores.							

Table 18. 2003-04 oat yields at MAFES Brown Loam Branch, Raymond (Loring silt loam soil).¹

Brand/Variety	2003-04 yield	2-Year avg. yield ²	3-Year avg. yield ²	Test weight	Date headed ³	Plant height	Lodging score ⁴
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>		<i>in</i>	
Plot Spike LA 9339	112.6	—	—	31	—	40	3
LA98002SBS-26-B-S1	112.3	—	—	32	—	39	3
Secretariat LA495	107.5	—	—	32	—	36	1
ARO213-3	105.0	—	—	28	—	32	1
LA97006GBS-22-B-S2	104.5	—	—	33	—	36	2
LA98009SBS-49-B-S1	98.3	—	—	32	—	35	1
Horizon 474	94.4	—	—	32	—	35	3
Horizon 321	93.1	—	—	32	—	30	3
LA98010SBS-58	87.8	—	—	31	—	36	3
Horizon 314	80.4	—	—	26	—	33	3
ARO258-7	77.4	—	—	33	—	31	3
Overall mean	97.6	—	—				
LSD (.10)	13.5	—	—				
Error degrees of freedom	30	—	—				
CV (%)	11.5	—	—				
R ² (%)	61	—	—				
¹ Planted Nov. 11, 2003		Harvested June 10, 2004		Soil fertility: pH=6.5; P=H; K=M		Previous Crop: Fallow	
Fertilizer added: 34-0-0 @ 175 lb/A (3-26-04)							
² No 2- or 3-year averages.							
³ No heading dates taken.							
⁴ See "Procedures" for a description of lodging scores.							

Table 19. Yield summary of 2003-04 oat variety trials in Mississippi.

Brand/Variety	Brooksville	Newton	Raymond	Hill avg.	Stoneville	Overall avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
ARO213-3 (Exp.)	73.2	103.6	105.0	104.3	104.7	96.6
ARO258-7 (Exp.)	82.2	127.0	77.4	102.2	98.1	96.2
Horizon 321	70.8	87.2	93.1	90.2	92.9	86.0
Horizon 314	59.4	87.5	80.4	84.0	77.4	76.2
Horizon 474	37.2	77.8	94.4	86.1	80.3	72.4
LA98010SBS-58 (Exp.)	79.4	95.4	87.8	91.6	89.2	88.0
LA98002SBS-26-B-S1 (Exp.)	55.4	87.3	112.3	99.8	88.5	85.9
LA97006GBS-22-B-S2	57.1	49.9	104.5	77.2	81.0	73.1
LA98009SBS-49-B-S1	44.9	73.9	98.3	86.1	79.7	74.2
Plot Spike LA 9339	83.0	95.0	112.6	103.8	81.4	93.0
Terral Secretariat LA495	80.1	108.0	107.5	107.8	92.1	96.9
Overall Mean	65.7	90.2	97.6	93.9	87.8	85.3
LSD (.10)	16.5	16.5	13.5	10.5	16.8	7.7
Error degrees of freedom	30	30	30	30	30	120
CV (%)	20.9	15.2	11.5	13.4	15.9	15.5
R ² (%)	67	82	61	78	43	77

Table 20. 2-Year yield summary of 2002-03 and 2003-04 oat variety trials in Mississippi.

Brand/Variety	Brooksville	Newton	Overall avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
Horizon 321	67.9	94.8	81.4
Horizon 314	42.7	84.4	63.5
Horizon 474	54.9	84.2	69.5
LA97006GBS-22-B-S2	71.4	81.6	76.5
LA98009SBS-49-B-S1	63.7	81.6	72.6
Plot Spike LA 9339	76.0	91.9	84.0
Terral Secretariat LA495	89.1	107.2	93.1
Overall Mean	66.5	89.4	77.9
LSD (.10)	11.2	12.2	8.2
Error degrees of freedom	36	36	72
CV (%)	20.0	16.1	17.8
R ² (%)	79	73	81

COMMERCIAL WHEAT BRANDS/VARIETIES ENTERED

AgriPro Seeds, Inc. P.O. Box 2365 Jonesboro, AR 72402	AgriPro Beretta AgriPro Natchez	AgriPro Savage AgriPro Panola
AgSouth Genetics, LLC P.O. Box 72246 Albany, GA 31708	AGS 2000 AGS 2485	
Armor Seed Company P.O. Box 178 Fisher, AR 72429	Armor 3035 Armor AXR 5888 (Exp.)	Armor AXR 5110 (Exp.) Armor AXR 5109 (Exp.)
Cache River Valley Seed P.O. Box 10 Cash, AR 72421	Dixie 900 Dixie 922 Dixie 959	Dixie 9512 Dixie 9812
Delta Grow Seed P.O. Box 219 England, AR 72046	Delta Grow 4200 Delta Grow 4500 Delta Grow 4888	
Delta King Seed Co. P.O. Box 970 McCrary, AR 72101	Delta King 1551W Delta King 7777 Delta King 7900 Delta King 9216 Delta King 9410 Delta King XTJ241 (Exp.)	Delta King XTJ239 (Exp.) Delta King XTJ247 (Exp.) Delta King XTJ251 (Exp.) Delta King XTJ253 (Exp.) Delta King XTJ261 (Exp.)
Genesis Brand Seed P.O. Box 21085 Lansing, MI 48909	Genesis M86 Genesis R023 Genesis R024 Genesis R033	Genesis R043 Genesis R047 (Exp.) Genesis R063 (Exp.)
Hornbeck Seed Co., Inc. P.O. Box 472 DeWitt, AR 72042	HBK 3030 HBK 3106 (was X3106) HBK 3266	
Pioneer Hi-Bred Intl. 6767 Old Madison Pike Suite 110 Huntsville, AL 35806	Pioneer variety 26R12 Pioneer variety 26R15 Pioneer variety 26R38	Pioneer variety 26R58 Pioneer variety 26R61
Progeny Ag Products/ Erwin Keith Inc. 1529 Hwy. 193 Wynne, AR 72396	Progeny 110 (was EK Exp. 110) Progeny 133 Progeny 145 Progeny 156	Progeny 166 Progeny EK Exp. 150 (Exp.) Progeny EK Exp. 160 (Exp.)
Royster-Clark Inc. 717 Robinson Rd. SE Washington C H, OH 43160	Vigoro Tribute	
Southern States Coop P.O. Box 26234 Richmond, VA 23260	SS 520 SS 535 SS 560	
Syngenta Seeds P.O. Box 729 Bay, AR 72411	NK Coker 9152 NK Coker 9663 NK Coker 9375 (was NK B960457)	
Terral Seed Co., Inc. P.O. Box 826 Lake Providence, LA 71254	Terral LA422 Terral TV8450 Terral TV8502 (was TVX82H02) TerralTV8565 Terral TV8466	Terral LA841 Terral TVX81H04 (Exp.) Terral TVX82H01 (Exp.) Terral TVX82P201 (Exp.)
UniSouth Genetics, Inc. 2640 C Nolensville Rd. Nashville, TN 37211	USG 3209 USG 3350 USG 3430	USG 3709 USG 3592

PUBLIC WHEAT VARIETIES ENTERED

University of Arkansas 115 Plant Science Bldg. Fayetteville, AR 72701	AR Pat AR Sabbe AR 839 AR 910-9-1 (Exp.)
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University of Georgia Georgia Station Griffin, GA 30223	UGA 931233-E17 (Exp.)
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Louisiana State University Agronomy Dept Baton Rouge, LA 70803	LA925C104-1-3-B-4 (Exp.) LA9560CA22-1 (Exp.) LA925C104-2 (Exp.) LA9518IBUR40-1 (Exp.)
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VCIA & EVAREC P.O. Box 338 Warsaw, VA 22572	VA McCormick
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PUBLIC AND COMMERCIAL OAT BRANDS/VARIETIES ENTERED

University of Arkansas 115 Plant Science Bldg. Fayetteville, AR 72701	ARO289-9 (Exp.) ARO258-7 (Exp.)
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North Florida Res & Ed Center University of Florida-NFREC 155 Research Rd. Quincy, FL 32351	Horizon 321
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Louisiana State University Agronomy Dept. Baton Rouge, LA 70803	LA98010SBS-58 (Exp.) LA98002SBS-26-B-S1 (Exp.) LA97006GBS-22-B-S2 (was LA976GBI-22-B-I2) LA98009SBS-49-B-S1 (was LA989IBI-49-B-I1)
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Plantation Seed Conditioners, Inc. P.O. Box 398 Newton, GA 39870	Horizon 314 Horizon 474
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Ragan & Massey Inc. 100 Ponchatoula Parkway Ponchatoula, LA 70454	Plot Spike LA 9339
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Terral Seed, Inc. P.O. Box 826 Lake Providence, LA 71254	Terral Secretariat LA495
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