

# Mississippi Wheat and Oat Variety Trials, 2003

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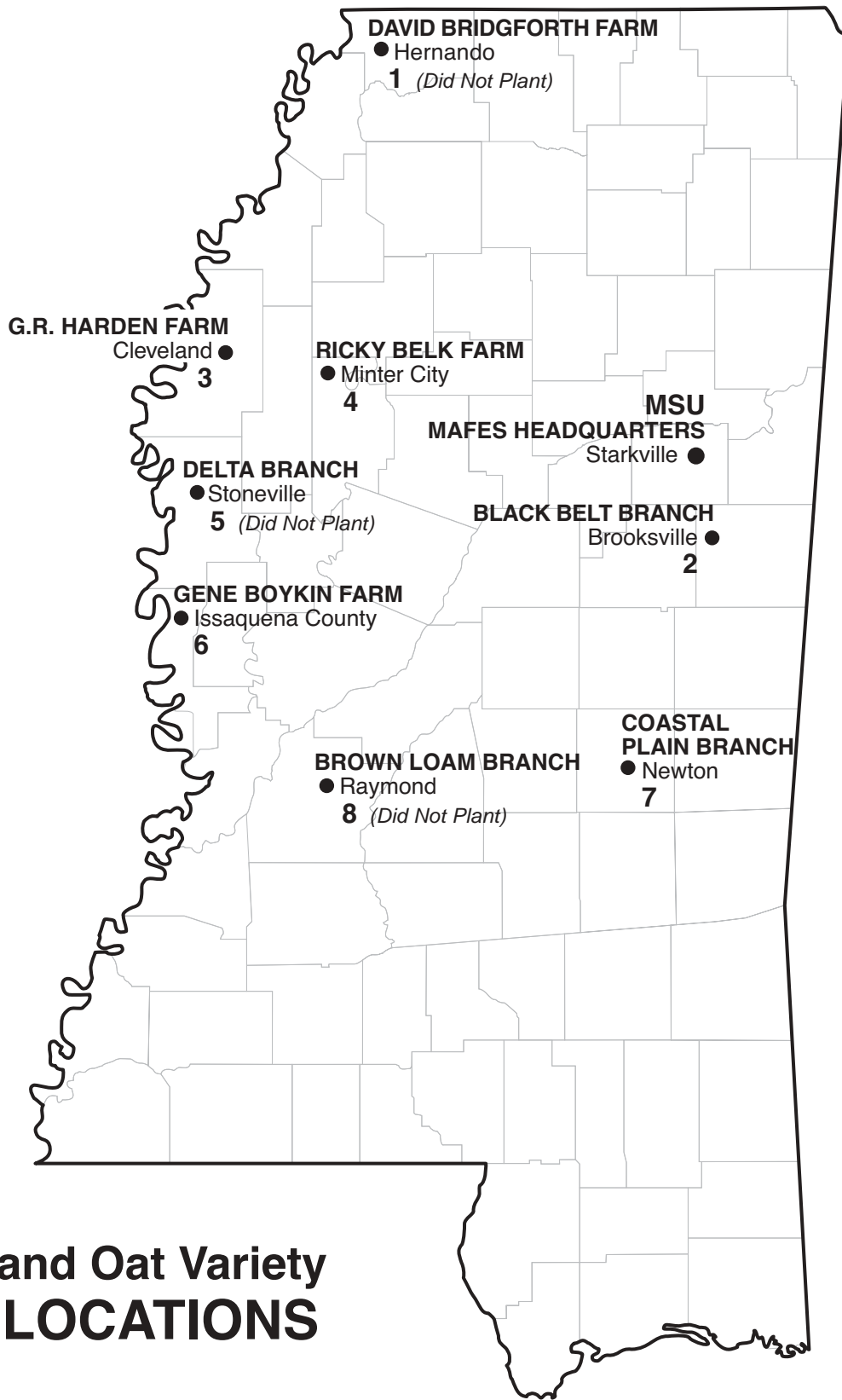
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# Wheat and Oat Variety TEST LOCATIONS



# Mississippi Wheat and Oat Variety Trials, 2003

## 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 2002-2003. Wheat yields in the range of 30 to 50 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 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 seedbeds (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 with drilled rates since surface establishment is extremely dependent upon ambient environmental conditions. Thus, aerial seeding is usually only recommended for late-planted small grains since evaporation rates are much lower late in the fall and little time remains to seed using normal planting methods.

**Seeding Rates.** Normal seeding rates for planting with a drill vary from 80 to 100 pounds of seed per acre, depending upon the variety and planting date. The low rate should be used when planting at the normal date and the higher rates when planting late or when planting conditions are poor. If seed is broadcast and covered with a disk or field cultivator, 100 to 120 pounds of seed per acre should be planted. When seeding aerially, about 150 pounds

per acre should be applied. Seeding rates are similar for oats. This should result in final plant stands of approximately 25-30 plants per square foot.

**Cold Requirements.** Winter varieties of small grains require a certain amount of cold weather (less than 40°F) before the plants will form seed heads. This process is called vernalization. Most of the wheat varieties planted in Mississippi require low temperatures to reproduce; oats do not. In some years, there is not enough cold weather in south Mississippi for some northern-adapted wheat varieties, resulting in little or no seed-head production. Normally, these varieties have late heading dates at south Mississippi locations. Check adaptation of unfamiliar varieties with an MSU Extension Service agent or seed company representative.

**Planting Dates.** Planting before recommended planting dates often results in establishment difficulty, increased stress and pest problems (freeze injury, aphids, Hessian fly, and disease). Late planting may not expose wheat plants to cool temperatures long enough for proper development. Recommended planting dates vary according to the region:

North Mississippi	Oct. 1 to Nov. 05
Central Mississippi	Oct. 15 to Nov. 25
South Mississippi	Nov. 1 to Dec. 10

**Disease and Disease Resistance.** Several diseases may attack wheat and oat plants in Mississippi. Leaf rust, stem rust, and several head diseases are very common. Planting disease-resistant varieties is the most practical and economical control; however, chemical control may be required to control severe outbreaks. For more specific information, refer to Extension Plant Disease Dispatch M-123.

**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 Extension Service 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 2 – Black Belt Branch, Brooksville.** Planting was delayed by rainfall until early December. After emerging to a good stand, the plots were subjected to a very wet winter. These conditions hampered tillering and had an adverse effect on yields. Harvest was completed on time, but yields were below the historic average.

**Location 3 – G.R. Harden Farm, Cleveland.** Wheat planting was late due to heavy rainfall in the fall, but wheat emerged to a good stand. Although the winter and spring were wet, wheat was harvested in a timely manner. No fungicide treatments were made for controlling diseases.

**Location 4 – Ricky Belk Farm, Minter City.** The wheat variety trials were planted into good soil moisture with additional rain falling soon after planting. Although the plot area had good surface drainage, it appears that the rain and winter weather reduced the

stand in some individual plots. No significant disease or insect pressures were observed.

**Location 6 – Gene Boykin Farm, Issaquena County.** After planting on Nov. 14, the 2003 wheat-growing season was fairly normal for this area. Temperatures were moderate throughout the season. Rainfall for the period was 25 to 30 inches, which was slightly above average for the period. There were no late freezing temperatures during or after head emergence.

**Location 7 – Coastal Plain Branch, Newton.** Weather conditions were good this season despite a wet fall that delayed planting somewhat. A heavy rain followed planting, but a stand was achieved. Normal weather conditions followed until harvest. Harvest was made in a very timely manner in May. Disease was insignificant, and birds were controlled with scare tactics this year.

**Table 1. 2002-03 wheat yields at location 2, MAFES Black Belt Branch Station, Brooksville (Brooksville silty clay soil).<sup>1</sup>**

Brand/Variety	2002-03 yield	2-year avg. yield <sup>2</sup>	3-year avg. yield <sup>2</sup>	Test weight	Seed weight	Date headed <sup>3</sup>	Plant height	Lodging score <sup>4</sup>
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Pioneer variety 26R24	48.4	—	—	53	32.2	—	31	1
HBK X3106	48.0	—	—	54	38.4	—	33	1
Delta Grow 4888	47.7	—	—	54	31.4	—	33	1
TVX82H01	47.5	—	—	53	31.6	—	34	1
Genesis R033	45.1	—	—	53	30.6	—	35	1
Progeny 156	44.9	—	—	53	28.3	—	33	1
Dixie 900	44.5	—	—	53	30.6	—	35	1
TVX81H04	44.4	—	—	54	32.6	—	33	1
Genesis M86	44.3	—	—	53	32.8	—	35	1
Delta Grow 4200	44.3	—	—	55	30.4	—	35	1
Delta King 9410	44.2	—	—	54	30.4	—	35	1
Terral TV8450	44.1	—	—	55	32.8	—	34	1
Delta Grow 4500	44.0	—	—	54	31.6	—	32	1
Genesis R043	43.6	—	—	52	32.0	—	34	1
Delta King 7900	43.5	—	—	54	33.6	—	32	1
Pioneer variety 26R38	43.3	—	—	54	36.2	—	32	1
Progeny EK Exp 110	43.1	—	—	53	30.0	—	34	1
SS 560	43.0	—	—	54	29.0	—	29	1
USG 3430	42.8	—	—	54	31.6	—	29	1
Terral TV8466	42.7	—	—	54	32.0	—	32	1
AgriPro Natchez	42.7	—	—	51	32.2	—	35	1
Dixie 922	42.5	—	—	53	29.8	—	32	1
USG 3209	42.2	—	—	56	36.4	—	27	1
NK Coker 9663	41.9	—	—	51	30.6	—	35	1
Terral TV8565	41.9	—	—	55	32.0	—	30	1
Dixie 9512	41.7	—	—	52	29.6	—	31	1
TVX82H02	41.6	—	—	53	30.4	—	32	1
Genesis R023	41.6	—	—	53	30.2	—	33	1

Continued.

**Table 1 (continued). 2002-03 wheat yields at location 2,  
MAFES Black Belt Branch Station, Brooksville (Brooksville silty clay soil).<sup>1</sup>**

<b>Brand/Variety</b>	<b>2002-03 yield</b>	<b>2-year avg. yield<sup>2</sup></b>	<b>3-year avg. yield<sup>2</sup></b>	<b>Test weight</b>	<b>Seed weight</b>	<b>Date headed<sup>3</sup></b>	<b>Plant height</b>	<b>Lodging score<sup>4</sup></b>
	<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	41.3	—	—	53	31.4	—	34	1
Progeny 145	40.9	—	—	52	32.4	—	32	1
AgriPro Savage	40.9	—	—	55	28.0	—	30	1
Progeny EK Exp 138	40.9	—	—	53	31.8	—	30	1
Armor 3035	40.8	—	—	53	32.2	—	34	1
HBK 3030	40.8	—	—	54	27.2	—	30	1
Pioneer variety 26R58	40.8	—	—	53	33.0	—	27	1
Armor X5333	40.1	—	—	53	32.8	—	32	1
Terral TV 8555	40.0	—	—	54	28.2	—	27	1
AgriPro Shelby	39.9	—	—	56	33.4	—	32	1
AGS 2000	39.7	—	—	51	34.0	—	33	1
NK Coker 9152	39.7	—	—	54	30.4	—	33	1
VA McCormick	39.4	—	—	54	29.2	—	29	1
SS 535	39.2	—	—	55	33.6	—	26	1
NK B960457	38.8	—	—	51	35.0	—	32	1
Progeny EK Exp 180	38.8	—	—	57	27.1	—	34	1
USG 3709	38.6	—	—	51	34.2	—	33	1
Terral LA422	38.3	—	—	56	32.2	—	30	1
SS 524	38.3	—	—	53	29.0	—	32	1
GA 931241E16	38.0	—	—	55	33.4	—	34	1
DK XTJ098	37.8	—	—	54	28.6	—	37	1
Genesis Venture	37.1	—	—	53	27.2	—	32	1
Progeny 166	37.0	—	—	53	30.4	—	34	1
Delta King 9216	37.0	—	—	52	29.2	—	31	1
Delta King 9027	36.8	—	—	55	29.0	—	32	1
Genesis 9939	36.8	—	—	52	30.4	—	35	1
Dixie 933	36.5	—	—	57	31.0	—	33	1
Delta King 7777	36.4	—	—	52	30.2	—	31	1
AR Sabbe	36.3	—	—	50	29.2	—	26	1
Genesis R024	36.3	—	—	53	33.4	—	32	1
SS 520	35.9	—	—	54	32.8	—	30	1
Armor X5222	35.9	—	—	56	34.0	—	28	1
Delta King 9121	35.0	—	—	55	29.0	—	26	1
Delta King 1551	34.6	—	—	53	26.8	—	33	1
NC96-13156	34.4	—	—	56	33.0	—	30	1
Armor 4045	34.2	—	—	52	31.0	—	32	1
Pioneer variety 26R12	33.7	—	—	55	32.0	—	27	1
LA90185G3-1-3-4-2	32.8	—	—	55	33.4	—	31	1
Pioneer variety 26R61	31.8	—	—	55	38.2	—	32	1
Vigoro Tribute	31.4	—	—	56	29.4	—	28	1
AGS 2485	31.1	—	—	54	31.6	—	31	1
AR Pat	30.6	—	—	54	31.4	—	28	1
Terral LA841	30.5	—	—	54	33.1	—	26	1
SS 522	29.6	—	—	57	31.0	—	27	1
Overall Mean	39.7	—	—					
LSD (.10)	7.1	—	—					
Error degrees of freedom	205	—	—					
CV (%)	15.0	—	—					
R <sup>2</sup> (%)	59	—	—					

<sup>1</sup>Planted Dec. 2, 2002

Harvested June 10, 2003

Soil fertility: pH=6.9; P=H; K=M

Fertilizer added: Preplant — 13-13-13 @ 250 lb/A (Nov. 29, 2002); Topdress — 34-0-0 @ 300 lb/A (March 4, 2003)

Herbicide: Hoelon @ 2.66 pt/A on Feb. 4, 2003

Previous crop: Soybeans

<sup>2</sup>No 2- or 3-year averages.

<sup>3</sup>No heading dates taken.

<sup>4</sup>See "Procedures" for a description of lodging scores.

**Table 2. 2002-03 wheat yields at location 3,  
G.R. Harden Farm, Cleveland (Forestdale silt loam soil).<sup>1</sup>**

<b>Brand/Variety</b>	<b>2002-03 yield</b>	<b>2-year avg. yield</b>	<b>3-year avg. yield<sup>2</sup></b>	<b>Test weight</b>	<b>Seed weight</b>	<b>Date headed</b>	<b>Plant height</b>	<b>Lodging score<sup>3</sup></b>
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Dixie 900	82.2	77.8	—	57	30.5	04/21	38	1
TVX82H02	80.4	—	—	58	29.4	04/20	38	1
Dixie 9512	80.2	79.4	—	57	29.5	04/21	38	1
Genesis R043	78.1	—	—	57	31.0	04/21	37	1
Genesis R033	77.1	—	—	59	29.1	04/22	38	1
Progeny EK Exp 138	76.6	—	—	57	29.9	04/20	41	1
NK Coker 9152	76.5	69.9	—	58	32.8	04/20	38	1
AgriPro Natchez	76.3	70.7	—	57	30.9	04/20	38	1
Progeny EK Exp 110	75.8	—	—	56	28.9	04/20	36	1
Genesis R023	75.5	78.1	—	58	28.4	04/21	36	1
TVX82H01	75.4	—	—	57	30.4	04/19	37	1
Progeny EK Exp 180	75.1	—	—	60	24.1	04/20	35	1
Terral TV8450	74.8	71.1	—	57	31.2	04/21	37	1
Progeny 145	74.8	73.8	—	57	29.7	04/20	36	1
Armor X5222	74.8	—	—	58	30.4	04/22	38	1
Pioneer variety 26R38	74.2	67.6	—	57	32.6	04/20	34	1
Delta King 7900	73.8	74.9	—	57	27.9	04/22	38	1
Genesis 9939	73.8	69.1	—	57	29.2	04/23	40	1
Progeny 166	73.6	76.0	—	57	30.3	04/21	37	1
Delta Grow 4200	73.5	73.9	—	56	28.0	04/21	35	2
USG 3430	73.5	—	—	55	28.8	04/20	38	1
TVX81H04	73.4	—	—	57	29.0	04/19	35	1
USG 3350	73.2	—	—	57	29.5	04/22	38	1
DK XTJ098	72.5	—	—	57	27.1	04/23	38	1
Dixie 922	72.5	—	—	58	28.8	04/21	39	1
Delta King 9216	72.3	67.9	—	55	30.3	04/22	37	1
Delta King 9410	71.6	70.5	—	57	29.1	04/26	39	1
Terral TV8565	71.3	73.3	—	58	31.2	04/22	37	1
Progeny 156	71.3	70.6	—	56	30.4	04/22	36	1
Genesis M86	71.2	74.5	—	57	26.0	04/22	37	1
Armor 4045	71.1	—	—	57	27.5	04/22	38	1
Delta Grow 4500	70.2	—	—	55	27.4	04/20	36	1
AR Pat	69.9	64.9	—	58	28.0	04/23	35	1
Delta Grow 4888	69.8	65.0	—	57	28.9	04/21	37	1
HBK X3106	69.6	—	—	57	34.3	04/20	36	1
Pioneer variety 26R12	69.4	71.7	—	61	30.8	04/21	32	1
Pioneer variety 26R58	68.4	—	—	56	28.1	04/20	33	1
AgriPro Savage	68.0	67.6	—	58	24.1	04/19	33	1
GA 931241E16	67.3	—	—	57	28.0	04/20	35	2
Armor 3035	67.2	—	—	57	28.1	04/23	38	1
Terral LA841	67.1	64.5	—	58	32.8	04/20	32	1
Armor X5333	66.7	—	—	57	29.3	04/23	36	1
USG 3209	66.7	69.2	—	57	33.5	04/17	29	1
AGS 2000	66.6	70.6	—	58	35.9	04/21	36	1
AR Sabbe	66.4	65.9	—	61	28.4	04/22	35	2
Dixie 933	66.3	—	—	59	28.9	04/24	38	1
Genesis R024	65.7	64.5	—	58	29.0	04/24	35	1
HBK 3030	65.3	—	—	56	30.4	04/21	32	2
Delta King 7777	65.2	69.3	—	57	24.8	04/23	37	1
Pioneer variety 26R24	65.1	—	—	56	26.7	04/19	33	1
Terral TV8466	65.0	64.3	—	56	31.5	04/22	39	1
SS 560	64.7	—	—	56	23.4	04/22	33	1
Genesis Venture	64.6	—	—	57	24.6	04/22	35	1
AgriPro Shelby	64.3	65.6	—	58	27.6	04/20	35	1
VA McCormick	64.2	67.8	—	56	24.9	04/22	31	1
SS 522	64.1	60.3	—	59	27.6	04/22	35	1
LA90185G3-1-3-4-2	64.1	65.4	—	56	28.1	04/22	35	1
Delta King 1551	63.7	63.1	—	57	24.4	04/22	36	1
SS 520	63.5	59.4	—	56	30.7	04/17	34	1
Terral TV 8555	63.2	57.1	—	57	28.7	04/22	31	1
Delta King 9121	63.1	61.7	—	58	24.7	04/23	37	1
Terral LA422	63.0	62.4	—	58	27.8	04/21	35	2
USG 3709	62.4	67.4	—	55	28.7	04/21	35	1
NK Coker 9663	62.3	62.3	—	58	31.3	04/21	38	1

Continued.



**Table 2 (continued). 2002-03 wheat yields at location 3,  
G.R. Harden Farm, Cleveland (Forestdale silt loam soil).<sup>1</sup>**

Brand/Variety	2002-03 yield	2-year avg. yield	3-year avg. yield <sup>2</sup>	Test weight	Seed weight	Date headed	Plant height	Lodging score <sup>3</sup>
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
NK B960457	62.2	—	—	55	31.9	04/21	39	1
Delta King 9027	62.2	64.4	—	57	23.1	04/23	35	1
SS 535	61.6	63.9	—	57	26.7	04/22	32	1
Vigoro Tribute	61.1	63.5	—	60	30.1	04/22	34	1
SS 524	60.6	58.6	—	54	24.1	04/17	30	1
Pioneer variety 26R61	57.9	60.6	—	62	37.9	04/20	32	1
AGS 2485	54.8	—	—	57	25.2	04/20	34	1
NC96-13156	52.6	—	—	60	29.7	04/21	31	1
Overall Mean	68.9	67.7	—					
LSD (.10)	5.3	6.2	—					
Error degrees of freedom	213	258	—					
CV (%)	6.6	11.2	—					
R <sup>2</sup> (%)	71	76	—					

<sup>1</sup>Planted Nov. 19, 2002

Harvested June 5, 2003

Soil fertility: pH=7.2; P=H; K=H

Fertilizer added: N @ 100 lb/A (41-0-0-4) on Jan. 27, March 4, March 12, and March 17, 2003

Herbicide: Harmony @ 6 oz/A + 0.25% surfactant on March 11, 2003

Previous crop: Corn

<sup>2</sup>No 3-year average.

<sup>3</sup>See "Procedures" for a description of lodging scores.

**Table 3. 2002-03 wheat yields at location 4  
Ricky Belk Farm, Minter City (Forestdale silt loam soil).<sup>1</sup>**

Brand/Variety	2002-03 yield	2-year avg. yield	3-year avg. yield <sup>2</sup>	Test weight	Seed weight	Date headed	Plant height	Lodging score <sup>3</sup>
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
AGS 2000	95.6	87.1	—	57	39.3	04/15	36	1
NK Coker 9152	95.3	82.0	—	57	35.9	04/18	40	1
AgriPro Savage	94.6	74.7	—	57	27.0	04/18	38	2
Pioneer variety 26R58	94.4	—	—	57	37.3	04/18	35	1
Progeny 145	92.7	84.2	—	56	31.2	04/21	43	1
AR Pat	92.1	77.4	—	57	28.5	04/21	42	1
Genesis R024	91.5	74.8	—	56	34.0	04/21	40	1
USG 3430	91.3	—	—	56	32.9	04/21	41	2
Genesis R043	90.9	—	—	56	30.8	04/18	41	2
GA 931241E16	89.7	—	—	59	30.9	04/18	37	4
Vigoro Tribute	89.6	77.6	—	58	32.8	04/21	37	2
HBK X3106	88.2	—	—	58	33.7	04/11	42	1
TVX82H02	86.9	—	—	56	29.9	04/21	39	1
NK B960457	86.1	—	—	57	32.4	04/21	39	2
Dixie 9512	85.2	80.5	—	56	31.0	04/21	42	2
Pioneer variety 26R24	85.0	—	—	56	27.7	04/15	39	4
AGS 2485	84.3	—	—	58	32.3	04/15	39	1
TVX82H01	84.2	—	—	57	17.3	04/18	40	2
Dixie 900	83.7	79.9	—	55	29.8	04/21	42	1
Terral LA841	83.3	77.7	—	57	32.5	04/15	35	1
Delta King 1551	83.3	72.9	—	56	26.8	04/21	35	1
USG 3209	83.0	73.9	—	56	35.1	04/15	33	2
SS 535	82.9	69.0	—	55	26.2	04/18	44	2
Delta King 9410	82.4	73.3	—	56	28.4	04/21	41	1
Genesis M86	82.3	76.8	—	55	26.5	04/21	44	2
TVX81H04	82.2	—	—	56	30.1	04/21	41	1
SS 522	82.0	70.4	—	56	27.2	04/21	37	1
AgriPro Natchez	81.8	79.1	—	56	33.6	04/21	42	2
Progeny EK Exp 110	81.5	—	—	55	25.7	04/18	42	2
SS 560	81.4	—	—	56	26.5	04/21	34	1
Armor 4045	81.3	—	—	55	26.8	04/21	41	2

Continued.

**Table 3 (continued). 2002-03 wheat yields at location 4  
Ricky Belk Farm, Minter City (Forestdale silt loam soil).<sup>1</sup>**

<b>Brand/Variety</b>	<b>2002-03 yield</b>	<b>2-year avg. yield</b>	<b>3-year avg. yield<sup>2</sup></b>	<b>Test weight</b>	<b>Seed weight</b>	<b>Date headed</b>	<b>Plant height</b>	<b>Lodging score<sup>3</sup></b>
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Pioneer variety 26R61	81.3	70.6	—	59	36.5	04/18	38	2
Genesis 9939	80.9	72.4	—	53	27.3	04/21	40	2
Pioneer variety 26R12	80.8	73.8	—	59	33.0	04/21	36	1
Terral LA422	80.7	70.1	—	57	30.6	04/18	39	2
DK XTJ098	79.9	—	—	59	28.9	04/21	39	1
AgriPro Shelby	79.9	73.5	—	57	32.0	04/21	38	1
Delta Grow 4500	79.8	—	—	55	26.0	04/21	41	3
Genesis R033	79.7	—	—	56	28.7	04/21	39	1
SS 524	79.7	75.5	—	53	25.1	04/15	35	1
Progeny EK Exp 138	79.5	—	—	56	31.1	04/21	38	1
Dixie 922	79.5	—	—	54	27.1	04/21	42	4
Genesis R023	79.4	75.2	—	55	29.1	04/21	40	2
Terral TV8565	79.3	73.8	—	56	26.7	04/24	39	1
Progeny EK Exp 180	79.1	—	—	58	23.8	04/24	38	1
Pioneer variety 26R38	79.0	71.1	—	56	37.0	04/18	41	2
AR Sabbe	78.9	73.0	—	57	32.2	04/21	38	1
VA McCormick	78.7	75.8	—	57	28.4	04/21	38	1
Terral TV8466	78.6	74.0	—	56	32.2	04/21	37	2
Genesis Venture	77.8	—	—	56	26.2	04/21	38	3
Delta King 7777	77.7	70.1	—	58	28.1	04/21	40	1
LA90185G3-1-3-4-2	77.3	71.3	—	56	34.6	04/21	39	1
NK Coker 9663	76.4	—	—	57	33.0	04/18	40	2
Delta King 7900	76.3	71.4	—	55	27.9	04/21	40	1
Progeny 156	76.2	70.5	—	54	27.6	04/21	40	2
Armor 3035	75.7	—	—	55	27.9	04/21	40	1
Dixie 933	74.9	—	—	59	28.2	04/21	43	2
Delta King 9216	74.7	70.6	—	53	24.4	04/21	42	2
USG 3709	74.6	68.2	—	55	30.2	04/21	40	1
SS 520	74.1	67.0	—	57	30.1	04/11	34	2
Delta Grow 4200	73.7	72.3	—	56	31.4	04/21	41	1
Terral TV8450	73.6	72.5	—	55	29.6	04/18	42	1
Armor X5333	72.9	—	—	56	29.2	04/21	42	1
HBK 3030	72.5	—	—	56	3.5	04/18	36	1
Delta Grow 4888	72.4	73.9	—	54	24.8	04/21	40	2
Delta King 9121	69.5	60.0	—	55	25.4	04/21	37	2
USG 3350	68.8	—	—	56	27.3	04/21	42	2
Progeny 166	68.7	73.4	—	57	27.6	04/21	39	2
Terral TV 8555	67.4	60.0	—	56	32.5	04/21	36	2
Delta King 9027	67.2	65.2	—	55	25.2	04/21	38	2
Armor X5222	66.9	—	—	56	28.5	04/21	39	1
NC96-13156	66.2	—	—	57	29.5	04/21	38	1
Overall Mean	80.5	73.4	—					
LSD (.10)	10.3	8.2	—					
Error degrees of freedom	213	252	—					
CV (%)	10.9	13.5	—					
R <sup>2</sup> (%)	52	60	—					

<sup>1</sup>Planted Nov. 2, 2003 Harvested June 5, 2003 Soil fertility: pH=6.7; P=H; K=H  
Fertilizer added: Topdress — 100 lb/A (18-46-0) (Nov. 16, 2002); N @ 100 lb/A (46-0-0) (March 3 and 12, 2003)  
Herbicide: 2, 4-D @ 1.5 pt/A on Feb. 18, 2003 Previous crop: Cotton  
<sup>2</sup>No 3-year average.  
<sup>3</sup>See "Procedures" for a description of lodging scores.

**Table 4. 2002-03 wheat yields at location 6,  
Gene Boykin Farm, Issaquena County (Tunica clay soil).<sup>1</sup>**

<b>Brand/Variety</b>	<b>2002-03 yield</b>	<b>2-year avg. yield</b>	<b>3-year avg. yield</b>	<b>Test weight</b>	<b>Seed weight</b>	<b>Date headed</b>	<b>Plant height</b>	<b>Lodging score<sup>2</sup></b>
	<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	84.5	74.2	67.5	—	—	04/19	35	1
HBK X3106	78.1	—	—	56	36.3	04/16	34	1
Pioneer variety 26R61	77.6	67.5	72.4	59	41.8	04/20	35	1
Terral LA841	77.4	71.4	71.6	55	32.5	04/18	29	1
AgriPro Natchez	76.8	66.0	59.1	55	32.0	04/22	34	1
NK Coker 9663	76.7	—	—	57	32.2	04/22	37	1
Dixie 933	76.6	—	—	58	28.8	04/22	38	1
TVX82H02	76.1	—	—	54	28.7	04/21	36	1
VA McCormick	75.7	68.6	—	54	25.0	04/22	30	1
Delta King 1551	75.6	74.0	73.9	55	27.7	04/21	30	1
Genesis R023	75.6	71.5	—	53	29.2	04/18	34	1
Delta King 7900	74.3	67.3	65.5	54	30.0	04/18	37	1
AgriPro Savage	73.8	71.1	—	56	27.2	04/19	30	1
AGS 2000	73.3	69.9	68.1	56	34.8	04/17	29	1
Pioneer variety 26R24	72.9	—	—	55	33.5	04/17	30	1
Armor X5222	72.5	—	—	53	29.3	04/21	32	1
GA 931241E16	72.0	—	—	57	32.0	04/19	34	1
TVX81H04	71.9	—	—	53	29.1	04/18	34	1
Vigoro Tribute	71.5	64.6	65.1	58	31.0	04/20	29	1
Pioneer variety 26R12	71.4	70.0	—	57	33.8	04/22	32	1
Delta King 9410	71.4	69.9	70.0	53	28.1	04/21	35	1
Progeny EK Exp 110	71.3	—	—	54	30.1	04/18	33	1
DK XTJ098	71.3	—	—	56	30.9	04/21	32	1
Terral TV8565	71.2	68.6	68.1	54	29.1	04/21	33	1
Genesis R033	71.2	—	—	55	28.8	04/20	33	1
Terral TV8450	70.6	68.9	67.2	53	26.8	04/19	36	1
Progeny 166	70.2	71.0	—	55	27.8	04/20	35	1
Pioneer variety 26R58	70.1	—	—	55	29.0	04/20	28	1
AgriPro Shelby	70.0	70.5	70.0	58	34.8	04/18	32	1
USG 3430	70.0	—	—	53	29.9	04/18	34	1
Delta Grow 4500	69.4	—	—	54	29.0	04/22	35	1
USG 3209	69.3	66.1	65.9	55	34.3	04/15	28	2
Dixie 900	68.8	70.0	69.6	53	30.2	04/21	34	1
USG 3350	68.7	—	—	54	28.5	04/21	35	1
Progeny 156	68.7	65.2	—	54	30.6	04/21	32	1
Genesis R043	68.6	—	—	53	29.7	04/20	35	1
Progeny 145	68.6	67.6	—	54	29.5	04/19	34	1
Armor 4045	68.1	—	—	54	30.5	04/20	30	1
Progeny EK Exp 180	67.8	—	—	56	26.2	04/26	29	1
SS 524	67.6	65.8	—	53	27.7	04/16	33	1
Delta Grow 4200	67.4	68.1	—	54	29.3	04/21	30	1
Genesis M86	67.3	67.7	67.2	54	29.6	04/20	35	1
AGS 2485	67.1	—	—	55	28.0	04/17	32	1
Delta King 9216	67.1	66.0	67.5	55	31.0	04/20	32	1
AR Pat	67.0	67.3	69.1	55	30.4	04/24	38	1
Genesis 9939	66.4	63.7	64.9	53	27.1	04/20	34	1
LA90185G3-1-3-4-2	66.2	64.6	—	56	34.8	04/19	33	1
Genesis R024	65.8	60.0	—	53	28.8	04/23	27	1
Progeny EK Exp 138	65.8	—	—	55	27.7	04/20	36	1
Dixie 9512	65.7	65.9	—	54	27.6	04/19	35	1
Armor 3035	65.3	—	—	53	29.4	04/21	35	1
TVX82H01	65.0	—	—	55	28.9	04/21	33	1
Pioneer variety 26R38	64.6	63.6	70.0	55	39.9	04/20	32	1
Armor X5333	64.3	—	—	52	26.7	04/21	33	1
Terral TV 8555	64.2	61.8	60.5	56	31.5	04/23	28	1
NK B960457	64.0	—	—	53	33.6	04/21	31	1
SS 535	63.8	59.0	62.0	55	30.4	04/23	28	1
Delta King 9121	63.7	59.4	60.6	—	—	04/22	31	1
Dixie 922	62.3	—	—	53	29.4	04/22	34	1
HBK 3030	62.0	—	—	54	29.4	04/18	30	1
USG 3709	61.7	63.5	65.3	52	33.1	04/21	35	1
Delta Grow 4888	61.2	62.2	—	54	31.0	04/21	36	1
Delta King 9027	60.2	60.2	63.4	55	23.5	04/23	36	1
Terral TV8466	60.1	58.7	—	53	31.1	04/23	27	1

Continued.

**Table 4 (continued). 2002-03 wheat yields at location 6,  
Gene Boykin Farm, Issaquena County (Tunica clay soil).<sup>1</sup>**

Brand/Variety	2002-03 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score <sup>2</sup>
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
SS 522	58.7	—	—	56	27.8	04/19	32	1
Delta King 7777	57.9	64.0	68.1	53	25.8	04/23	30	1
Terral LA422	55.3	57.9	60.2	57	28.7	04/20	32	3
SS 560	55.2	—	—	55	25.3	04/19	29	1
AR Sabbe	54.6	55.0	58.5	—	—	04/23	32	1
NC96-13156	50.4	—	—	57	30.3	04/22	27	1
Genesis Venture	50.1	—	—	55	27.7	04/21	30	1
SS 520	49.7	48.5	—	55	31.4	04/13	30	1
Overall Mean	67.7	65.6	66.3					
LSD (.10)	7.9	5.0	4.7					
Error degrees of freedom	210	243	205					
CV (%)	9.9	9.2	10.1					
R <sup>2</sup> (%)	63	64	63					

<sup>1</sup>Planted Nov. 14, 2002

Harvested June 9, 2003

Soil fertility: pH=6.2; P=M-H; K=M-H

Fertilizer added: Topdress — N @ 110 lb/A (46-0-0) on Feb. 24 and March 5, 2003

Herbicide: 2, 4-D @ 1 qt/A on Feb. 11, 2003

Previous crop: Cotton

<sup>2</sup>See "Procedures" for a description of lodging scores.

**Table 5. 2002-03 wheat yields at location 7,  
MAFES Coastal Plain Branch Station, Newton (Prentiss very fine sandy loam soil).<sup>1</sup>**

Brand/Variety	2002-03 yield	2-year avg. yield	3-year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score <sup>2</sup>
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Vigoro Tribute	78.7	64.1	63.5	59	32.1	04/14	30	1
AgriPro Savage	78.3	67.1	—	57	27.7	04/11	35	1
NK Coker 9152	78.3	65.5	67.3	56	33.9	04/11	36	1
SS 560	78.1	—	—	57	29.0	04/11	32	2
Genesis R033	77.8	—	—	56	31.5	04/16	36	1
Dixie 900	77.7	65.9	67.2	56	32.0	04/16	38	1
Delta King 1551	77.4	69.5	67.3	56	28.8	04/16	34	1
DK XTJ098	77.2	—	—	57	31.1	04/16	38	1
GA 931241E16	76.9	—	—	57	30.6	04/11	35	1
VA McCormick	76.8	66.6	—	58	29.1	04/16	32	1
Genesis R043	76.8	—	—	56	28.4	04/16	38	1
AgriPro Shelby	76.2	65.1	63.1	58	30.6	04/14	35	1
USG 3209	76.2	68.6	70.9	56	31.2	04/11	32	1
Delta King 7900	76.1	64.7	65.2	56	31.0	04/16	40	1
Pioneer variety 26R58	75.9	—	—	56	31.9	04/14	32	1
Dixie 9512	75.9	65.5	—	56	30.1	04/16	37	1
Armor X5222	75.5	—	—	56	29.4	04/16	40	1
Delta Grow 4200	75.2	66.8	—	55	29.7	04/16	37	1
TVX82H01	75.0	—	—	55	30.1	04/14	38	1
Terral TV8450	74.9	65.1	63.2	56	28.9	04/14	38	1
SS 535	74.9	64.5	67.0	57	29.4	04/16	32	1
Genesis R024	74.7	63.7	—	57	32.6	04/16	33	1
HBK X3106	74.5	—	—	57	34.7	04/11	39	1
USG 3350	74.5	—	—	56	31.2	04/16	37	1
Progeny EK Exp 138	74.4	—	—	56	31.5	04/14	37	1
LA90185G3-1-3-4-2	74.2	59.6	—	56	33.7	04/11	35	1
AgriPro Natchez	74.2	64.9	62.8	56	32.0	04/16	37	2
Genesis 9939	74.1	58.9	57.9	56	30.6	04/16	38	1
TVX82H02	74.0	—	—	57	29.1	04/16	37	1
Genesis R023	73.6	55.0	—	56	29.1	04/16	39	2
Progeny EK Exp 110	73.5	—	—	56	30.5	04/14	37	1
Progeny 166	73.5	65.3	—	55	29.5	04/16	38	1
HBK 3030	73.5	—	—	56	30.7	04/16	38	1
Terral LA422	73.2	58.3	61.6	56	29.1	04/11	34	1

Continued.

**Table 5 (continued). 2002-03 wheat yields at location 7,  
MAFES Coastal Plain Branch Station, Newton (Prentiss very fine sandy loam soil).<sup>1</sup>**

<b>Brand/Variety</b>	<b>2002-03 yield</b>	<b>2-year avg. yield</b>	<b>3-year avg. yield</b>	<b>Test weight</b>	<b>Seed weight</b>	<b>Date headed</b>	<b>Plant height</b>	<b>Lodging score<sup>2</sup></b>
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>	<i>g/1000</i>		<i>in</i>	
Terral TV8466	73.0	65.0	—	56	33.9	04/14	32	1
Genesis Venture	72.9	—	—	57	28.9	04/16	34	1
Terral TV8565	72.9	61.7	61.0	56	30.2	04/16	39	1
USG 3430	72.6	—	—	56	31.3	04/14	39	1
TVX81H04	72.6	—	—	56	30.7	04/14	38	1
Genesis M86	72.4	66.4	63.5	56	30.6	04/16	38	1
AGS 2485	72.4	—	—	57	28.4	04/11	37	1
SS 522	72.2	64.8	66.2	59	32.1	04/16	34	3
Dixie 922	71.8	—	—	57	30.0	04/16	39	1
Pioneer variety 26R61	71.7	59.8	62.9	58	39.9	04/11	36	1
Delta King 9410	71.5	63.9	63.0	56	27.6	04/16	39	2
Pioneer variety 26R38	71.0	57.2	62.8	57	36.8	04/11	39	1
AR Pat	71.0	64.3	67.7	57	30.8	04/18	38	1
Progeny 156	70.9	58.9	—	56	30.9	04/18	38	2
Delta Grow 4500	70.8	—	—	55	28.0	04/16	38	1
AGS 2000	70.7	59.9	63.3	56	35.3	04/11	36	3
Armor 4045	70.6	—	—	56	29.5	04/16	39	1
SS 520	70.3	62.0	—	57	35.6	04/11	32	1
Dixie 933	70.0	—	—	59	30.4	04/16	40	1
Armor 3035	69.8	—	—	56	28.7	04/16	38	1
Delta King 9216	69.8	58.8	61.1	56	30.5	04/16	37	2
Delta Grow 4888	69.2	60.7	—	55	30.5	04/16	40	2
Delta King 9027	68.9	56.6	54.7	56	25.1	04/18	38	1
Terral LA841	68.9	55.2	58.9	56	32.2	04/11	33	1
SS 524	68.5	57.0	—	54	23.7	04/11	33	1
Progeny 145	68.4	61.8	—	55	28.5	04/14	38	1
USG 3709	68.4	54.8	57.4	55	35.4	04/16	38	1
NK B960457	67.7	—	—	55	30.1	04/14	36	1
Progeny EK Exp 180	67.6	—	—	59	24.8	04/18	37	1
NC96-13156	67.2	—	—	58	35.3	04/16	35	2
Pioneer variety 26R12	67.2	64.1	—	58	33.3	04/16	35	1
NK Coker 9663	66.7	57.4	61.2	58	32.9	04/11	40	2
Delta King 7777	66.3	59.9	59.4	56	27.0	04/18	38	1
Terral TV 8555	65.6	58.4	60.5	56	29.4	04/18	33	1
Armor X5333	65.5	—	—	55	28.3	04/16	38	1
Pioneer variety 26R24	65.2	—	—	58	33.5	04/11	38	3
AR Sabbe	64.6	57.9	60.1	56	31.0	04/18	37	1
Delta King 9121	62.2	50.9	54.4	56	27.7	04/18	34	1
Overall Mean	72.1	61.9	62.6					
LSD (.10)	8.8	5.0	4.7					
Error degrees of freedom	213	258	252					
CV (%)	10.5	9.9	11.2					
R <sup>2</sup> (%)	35	83	76					

<sup>1</sup>Planted Nov. 25, 2003

Harvested May 29, 2003

Soil fertility: pH =6.7; P=H; K=M

Fertilizer added: Preplant — N @ 30 lb/A, P<sub>2</sub>O<sub>5</sub> @ 60 lb/A, K<sub>2</sub>O @ 60 lb/A (Dec. 17, 2002); Topdress — N @ 100 lb/A (Feb. 20, 2003)

Herbicide: Harmony Extra @ 0.5 oz/A on Feb. 27, 2003

Previous crop: Wheat

<sup>2</sup>See "Procedures" for a description of lodging scores.

Table 6. Yield summary of 2002-03 wheat variety trials in Mississippi.

Brand/Variety	Brooksville	North avg.	Newton	South avg.	Cleveland	Issaquena	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>	<i>bu/A</i>	<i>bu/A</i>
AgriPro Natchez	42.7	42.7	74.2	74.2	76.3	76.8	81.8	78.3	70.3
AgriPro Savage	40.9	40.9	78.3	78.3	68.0	73.8	94.6	78.8	71.1
AgriPro Shelby	39.9	39.9	76.2	76.2	64.3	70.0	79.9	71.4	66.1
AGS 2485	31.1	31.1	72.4	72.4	54.8	67.1	84.3	68.8	62.0
AGS 2000	39.7	39.7	70.7	70.7	66.6	73.3	95.6	78.5	69.2
AR Pat	30.6	30.6	71.0	71.0	69.9	67.0	92.1	76.3	66.1
AR Sabbe	36.3	36.3	64.6	64.6	66.4	54.6	78.9	65.9	59.7
Armor 3035	40.8	40.8	69.8	69.8	67.2	65.3	75.7	69.4	63.8
Armor 4045	34.2	34.2	70.6	70.6	71.1	68.1	81.3	73.5	65.1
Armor X5222 (Exp.)	35.9	35.9	75.5	75.5	74.8	72.5	66.9	71.4	65.1
Armor X5333 (Exp.)	40.1	40.1	65.5	65.5	66.7	64.3	72.9	68.0	61.9
Delta Grow 4200	44.3	44.3	75.2	75.2	73.5	67.4	73.7	71.5	66.8
Delta Grow 4500	44.0	44.0	70.8	70.8	70.2	69.4	79.8	73.1	66.8
Delta Grow 4888	47.7	47.7	69.2	69.2	69.8	61.2	72.4	67.8	64.1
Delta King 1551W	34.6	34.6	77.4	77.4	63.7	75.6	83.3	74.2	66.9
Delta King 7777	36.4	36.4	66.3	66.3	65.2	57.9	77.7	66.9	60.7
Delta King 7900	43.5	43.5	76.1	76.1	73.8	74.3	76.3	74.8	68.8
Delta King 9027	36.8	36.8	68.9	68.9	62.2	60.2	67.2	63.2	59.0
Delta King 9121	35.0	35.0	62.2	62.2	63.1	63.7	69.5	64.7	58.2
Delta King 9216	37.0	37.0	69.8	69.8	72.3	67.1	74.7	71.4	64.2
Delta King 9410	44.2	44.2	71.5	71.5	71.6	71.4	82.4	75.1	68.2
Delta King XTJ098 (Exp.)	37.8	37.8	77.2	77.2	72.5	71.3	79.9	74.6	67.7
Dixie 900	44.5	44.5	77.7	77.7	82.2	68.8	83.7	78.2	71.4
Dixie 922	42.5	42.5	71.8	71.8	72.5	62.3	79.5	71.4	65.2
Dixie 933	36.5	36.5	70.0	70.0	66.3	76.6	74.9	72.6	64.9
Dixie 9512	41.7	41.7	75.9	75.9	80.2	65.7	85.2	77.0	69.7
GA 931241E16 (Exp.)	38.0	38.0	76.9	76.9	67.3	72.0	89.7	76.3	68.8
Genesis 9939	36.8	36.8	74.1	74.1	73.8	66.4	80.9	73.7	66.4
Genesis M86	44.3	44.3	72.4	72.4	71.2	67.3	82.3	73.6	67.5
Genesis R023	41.6	41.6	73.6	73.6	75.5	75.6	79.4	76.8	69.1
Genesis R024	36.3	36.3	74.7	74.7	65.7	65.8	91.5	74.3	66.8
Genesis R033	45.1	45.1	77.8	77.8	77.1	71.2	79.7	76.0	70.2
Genesis R043	43.6	43.6	76.8	76.8	78.1	68.6	90.9	79.2	71.6
Genesis Venture	37.1	37.1	72.9	72.9	64.6	50.1	77.8	64.2	60.5
HBK 3030	40.8	40.8	73.5	73.5	65.3	62.0	72.5	66.6	62.3
HBK X3106 (Exp.)	48.0	48.0	74.5	74.5	69.6	78.1	88.2	78.7	71.7
LA 90185G3-1-3-4-2 (Exp.)	32.8	32.8	74.2	74.2	64.1	66.2	77.3	69.2	62.9
NC96-13156 (Exp.)	34.4	34.4	67.2	67.2	52.6	50.4	66.2	56.4	54.2
NK Coker 9152	39.7	39.7	78.3	78.3	76.5	84.5	95.3	84.7	74.3
NK Coker 9663	41.9	41.9	66.7	66.7	62.3	76.7	76.4	71.8	64.3
NK Coker B960457 (Exp.)	38.8	38.8	67.7	67.7	62.2	64.0	86.1	70.8	63.8
Pioneer variety 26R24	48.4	48.4	65.2	65.2	65.1	72.9	85.0	74.3	67.3
Pioneer variety 26R38	43.3	43.3	71.0	71.0	74.2	64.6	79.0	72.6	66.4
Pioneer variety 26R58	40.8	40.8	75.9	75.9	68.4	70.1	94.4	77.6	69.9
Pioneer variety 26R61	31.8	31.8	71.7	71.7	57.9	77.6	81.3	72.3	64.1
Pioneer variety 26R12	33.7	33.7	67.2	67.2	69.4	71.4	80.8	73.9	63.9
Progeny 145	40.9	40.9	68.4	68.4	74.8	68.6	92.7	78.7	69.1
Progeny 156	44.9	44.9	70.9	70.9	71.3	68.7	76.2	72.1	66.4
Progeny 166	37.0	37.0	73.5	73.5	73.6	70.2	68.7	70.9	64.6
Progeny EK Exp. 110 (Exp.)	43.1	43.1	73.5	73.5	75.8	71.3	81.5	76.2	69.0
Progeny EK Exp. 138 (Exp.)	40.9	40.9	74.4	74.4	76.6	65.8	79.5	74.0	67.5
Progeny EK Exp. 180 (Exp.)	38.8	38.8	67.6	67.6	75.1	67.8	79.1	74.0	65.7
SS 520	35.9	35.9	70.3	70.3	63.5	49.7	74.1	62.4	58.7
SS 522	29.6	29.6	72.2	72.2	64.1	58.7	82.0	68.3	60.8
SS 524	38.3	38.3	68.5	68.5	60.6	67.6	79.7	69.3	62.9
SS 535	39.2	39.2	74.9	74.9	61.6	63.8	82.9	69.4	63.9
SS 560	43.0	43.0	78.1	78.1	64.7	55.2	81.4	67.1	64.5
Terral LA422	38.3	38.3	73.2	73.2	63.0	55.3	80.7	66.3	62.1
Terral LA841	30.5	30.5	68.9	68.9	67.1	77.4	83.3	76.0	65.5
Terral TV8450	44.1	44.1	74.9	74.9	74.8	70.6	73.6	73.0	67.6
Terral TV8555	40.0	40.0	65.6	65.6	63.2	64.2	67.4	64.9	60.1
Terral TV8565	41.9	41.9	72.9	72.9	71.3	71.2	79.3	74.0	67.3
Terral TV8466	42.7	42.7	73.0	73.0	65.0	60.1	78.6	67.9	63.9

Continued.

**Table 6 (continued). Yield summary of 2002-03 wheat variety trials in Mississippi.**

Brand/Variety	Brooksville	North avg.	Newton	South avg.	Cleveland	Issaquena	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>	<i>bu/A</i>	<i>bu/A</i>
Terral TVX81H04 (Exp.)	44.4	44.4	72.6	72.6	73.4	71.9	82.2	75.8	68.9
Terral TVX82H01 (Exp.)	47.5	47.5	75.0	75.0	75.4	65.0	84.2	74.9	69.4
Terral TVX82H02 (Exp.)	41.6	41.6	74.0	74.0	80.4	76.1	86.9	81.1	71.8
USG 3209	42.2	42.2	76.2	76.2	66.7	69.3	83.0	73.0	67.5
USG 3350	41.3	41.3	74.5	74.5	73.2	68.7	68.8	70.3	64.8
USG 3430	42.8	42.8	72.6	72.6	73.5	70.0	91.3	78.3	70.0
USG 3709	38.6	38.6	68.4	68.4	62.4	61.7	74.6	66.2	61.1
VA McCormick	39.4	39.4	76.8	76.8	64.2	75.7	78.7	72.9	67.0
Vigoro Tribute	31.4	31.4	78.7	78.7	61.1	71.5	89.6	74.1	66.5
Overall Mean	39.7	39.7	72.4	72.4	68.9	67.7	80.5	72.4	66.0
LSD (.10)	7.1	7.1	7.3	7.3	5.3	7.9	10.3	4.7	3.5
Error degrees of freedom	205	205	213	213	213	210	213	636	1054
CV (%)	15.0	15.0	8.6	8.6	6.6	9.9	10.9	9.6	10.3
R <sup>2</sup> (%)	59	59	40	40	71	63	52	70	87

**Table 7. Two-year summary of 2001-02 and 2002-03 yields for wheat variety trials in Mississippi.**

Brand/Variety	Newton	South avg.	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	64.9	64.9	66.0	70.7	79.1	71.9	70.2
AgriPro Savage	67.1	67.1	71.1	67.6	74.7	71.1	70.1
AgriPro Shelby	65.1	65.1	70.5	65.6	73.5	69.8	68.7
AGS 2000	59.9	59.9	69.9	70.6	87.1	75.9	71.9
AR Pat	64.3	64.3	67.3	64.9	77.4	69.8	68.5
AR Sabbe	57.9	57.9	55.0	65.9	73.0	63.7	62.0
Delta Grow 4200	66.8	66.8	68.1	73.9	72.3	71.4	70.3
Delta Grow 4888	60.7	60.7	62.2	65.0	73.9	67.0	65.5
Delta King 1551	69.5	69.5	74.0	63.1	72.9	70.0	69.9
Delta King 7777	59.9	59.9	64.0	69.3	70.1	67.8	65.8
Delta King 7900	64.7	64.7	67.3	74.9	71.4	71.2	69.6
Delta King 9027	56.6	56.6	60.2	64.4	65.2	63.3	61.6
Delta King 9121	50.9	50.9	59.4	61.7	60.0	60.8	58.5
Delta King 9216	58.8	58.8	66.0	67.9	70.6	68.2	65.8
Delta King 9410	63.9	63.9	69.9	70.5	73.3	71.2	69.4
Dixie 900	65.9	65.9	70.0	77.8	79.9	75.7	73.3
Dixie 9512	65.5	65.5	65.9	79.4	80.5	75.3	72.8
Genesis R023	55.0	55.0	71.5	78.1	75.2	74.9	69.9
Genesis R024	63.7	63.7	60.0	64.5	74.8	66.4	65.8
Genesis 9939	58.9	58.9	63.7	69.1	72.4	68.4	66.0
Genesis M86	66.4	66.4	67.7	74.5	76.8	72.0	70.6
LA90185G3-1-3-4-2 (Exp.)	59.6	59.6	64.6	65.4	71.3	67.1	65.2
NK Coker 9152	65.5	65.5	74.2	69.9	82.0	74.5	72.2
NK Coker 9663	57.4	57.4	—	62.3	—	—	—
Pioneer variety 26R12	64.1	64.1	70.0	71.7	73.8	71.7	69.8
Pioneer variety 26R38	57.2	57.2	63.6	67.6	71.1	67.4	64.9
Pioneer variety 26R61	59.8	59.8	67.5	60.6	70.6	66.2	64.6
Progeny 145	61.8	61.8	67.6	73.8	84.2	75.2	71.8
Progeny 156	58.9	58.9	65.2	70.6	70.5	68.8	66.3
Progeny 166	65.3	65.3	71.0	76.0	73.4	73.4	71.4
SS 520	62.0	62.0	48.5	59.4	67.0	58.3	59.2
SS 522	64.8	64.8	—	60.3	70.4	—	—
SS 524	57.0	57.0	65.8	58.6	75.5	66.6	64.2
SS 535	64.5	64.5	59.0	63.9	69.0	64.0	64.1
Terral LA841	55.2	55.2	71.4	64.5	77.7	71.2	67.2
Terral TV8555	58.4	58.4	61.8	57.1	60.0	59.6	59.3
Continued.							

**Table 7 (continued). Two-year summary of 2001-02 and 2002-03 yields for wheat variety trials in Mississippi.**

Brand/Variety	Newton	South avg.	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>
Terral LA422	58.3	58.3	57.9	62.4	70.1	63.4	62.2
Terral TV8450	65.1	65.1	68.9	71.1	72.5	70.8	69.4
Terral TV8466	65.0	65.0	58.7	64.3	74.0	65.7	65.5
Terral TV8565	61.7	61.7	68.6	73.3	73.8	71.9	69.3
Vigoro Tribute	64.1	64.1	64.6	63.5	77.6	68.6	67.5
USG 3209	68.6	68.6	66.1	69.2	73.9	69.7	69.5
USG 3709	54.8	54.8	63.5	67.4	68.2	66.4	63.5
VA McCormick	66.6	66.6	68.6	67.8	75.8	70.7	69.7
Overall Mean	61.9	61.9	65.6	67.7	73.4	69.0	67.2
LSD (.10)	5.0	5.0	5.0	6.2	8.2	3.8	3.2
Error degrees of freedom	258	258	243	258	252	720	960
CV (%)	9.9	9.9	9.2	11.2	13.5	11.6	11.3
R <sup>2</sup> (%)	83	83	64	76	60	70	74

**Table 8. Three-year summary of 2001-01, 2001-02, and 2002-03 yields for wheat variety trials in Mississippi.**

Brand/Variety	Newton	Issaquena	Overall avg.
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
AgriPro Natchez	62.8	59.1	60.9
AgriPro Shelby	63.1	70.0	66.4
AGS 2000	63.3	68.1	66.9
AR Pat	67.7	69.1	68.2
AR Sabbe	60.1	58.5	59.6
Delta King 1551	67.3	73.9	69.8
Delta King 7777	59.4	68.1	63.9
Delta King 7900	65.2	65.5	65.7
Delta King 9027	54.7	63.4	59.3
Delta King 9121	54.4	60.6	58.1
Delta King 9216	61.1	67.5	64.4
Delta King 9410	63.0	70.0	66.4
Dixie 900	67.2	69.6	69.8
Genesis 9939	57.9	64.9	60.6
Genesis M86	63.5	67.2	66.3
NK Coker 9152	67.3	67.5	68.3
NK Coker 9663	61.2	—	—
Pioneer variety 26R38	62.8	70.0	67.0
Pioneer variety 26R61	62.9	72.4	68.1
SS 522	66.2	—	—
SS 535	67.0	62.0	65.9
Terral LA841	58.9	71.6	64.6
Terral TV8555	60.5	60.5	61.3
Terral LA422	61.6	60.2	61.5
Terral TV8450	63.2	67.2	66.1
Terral TV8565	61.0	68.1	64.9
Vigoro Tribute	63.5	65.1	64.1
USG 3209	70.9	65.9	69.4
USG 3709	57.4	65.3	61.1
Overall Mean	62.6	66.3	64.8
LSD (.10)	4.7	4.7	4.0
Error degrees of freedom	252	205	312
CV (%)	11.2	10.1	11.2
R <sup>2</sup> (%)	76	63	73



**Table 9. Wheat varietal reactions to disease in Mississippi.<sup>1</sup>**

Brand/Variety	Leaf rust <sup>2</sup>	Stripe rust <sup>2</sup>	Brand/Variety	Leaf rust <sup>2</sup>	Stripe rust <sup>2</sup>
AgriPro Natchez <sup>3</sup>	*	—	LA 90185G3-1-3-4-2 (Exp.)	—	S
AgriPro Savage	—	R	NC96-13156 (Exp.)	VS	—
AgriPro Shelby	—	MR	NK Coker 9152	—	R
AGS 2485	—	S	NK Coker 9663	—	MS
AGS 2000	—	S	NK Coker B960457 (Exp.)	—	MS
AR Pat	R	—	Pioneer variety 26R24	—	S
AR Sabbe	MR	—	Pioneer variety 26R38	—	S
Armor 3035	MS	—	Pioneer variety 26R58	—	S
Armor 4045	MS	—	Pioneer variety 26R61	R	—
Armor X5222 (Exp.)	MS	—	Pioneer variety 26R12	—	MR
Armor X5333 (Exp.)	MS	—	Progeny 145	MS	—
Delta Grow 4200	MR	—	Progeny 156	—	MS
Delta Grow 4500	—	MR	Progeny 166	MR	—
Delta Grow 4888	MS	—	Progeny EK Exp. 110 (Exp.) <sup>3</sup>	*	MR
Delta King 1551W	—	MR	Progeny EK Exp. 138 (Exp.)	MR	—
Delta King 7777	R	—	Progeny EK Exp. 180 (Exp.) <sup>3</sup>	*	MR
Delta King 7900	MR	—	SS 520	—	VS
Delta King 9027	—	MR	SS 522	—	S
Delta King 9121	—	MR	SS 524	—	MS
Delta King 9216	—	MR	SS 535	—	MS
Delta King 9410	—	MS	SS 560	—	MR
Delta King XTJ098 (Exp.)	MR	—	Terral LA422	—	S
Dixie 900	MS	—	Terral LA841	—	R
Dixie 922	MS	—	Terral TV8450	MS	—
Dixie 933	—	—	Terral TV8555	—	MR
Dixie 9512	MR	—	Terral TV8565	MS	—
GA 931241E16 (Exp.)	—	MR	Terral TV8466	MR	—
Genesis 9939	MR	—	Terral TVX81H04 (Exp.)	MR	—
Genesis M86	MS	—	Terral TVX82H01 (Exp.)	MR	—
Genesis R023	MS	—	Terral TVX82H02 (Exp.)	MR	—
Genesis R024	—	S	USG 3209	—	MS
Genesis R033	MR	—	USG 3350	MR	—
Genesis R043	MS	—	USG 3430	MS	—
Genesis Venture	—	MS	USG 3709	—	S
HBK 3030	—	MR	VA McCormick <sup>3</sup>	*	R
HBK X3106 (Exp.)	S	—	Vigoro Tribute	—	R

<sup>1</sup>Prepared by Dr. David M. Ingram, Associate Extension/Research Plant Pathologist, Central Mississippi Research and Extension Center, Raymond, Mississippi.

<sup>2</sup>Diseases rated visually using *James' Manual of Assessment Keys for Plant Diseases*. Ten random flag leaves from each plot were rated for percentage of leaf area affected, the values averaged and 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.

<sup>3</sup>\* = Low incidence of leaf rust occurred in the variety.

**Table 10. Average number of wheat seeds per pound for varieties entered in 2003 variety trials.**

Brand/Variety	2002-03 average	2-year average	Brand/Variety	2002-03 average	2-year average
	<i>seeds/lb</i>	<i>seeds/lb</i>		<i>seeds/lb</i>	<i>seeds/lb</i>
AgriPro Natchez	12,913	12,439	LA 90185G3-1-3-4-2 (Exp.)	15,978	13,682
AgriPro Savage	13,948	14,896	NC96-13156 (Exp.)	16,434	—
AgriPro Shelby	12,466	11,888	NK Coker 9152	13,500	—
AGS 2485	14,790	—	NK Coker 9663	12,467	13,802
AGS 2000	11,879	11,493	NK Coker B960457 (Exp.)	11,174	—
AR Pat	12,834	13,007	Pioneer variety 26R24	11,975	—
AR Sabbe	13,012	12,839	Pioneer variety 26R38	10,557	10,438
Armor 3035	13,121	—	Pioneer variety 26R58	13,664	—
Armor 4045	13,756	—	Pioneer variety 26R61	10,320	10,130
Armor X5222 (Exp.)	12,965	—	Pioneer variety 26R12	16,889	—
Armor X5333 (Exp.)	12,476	—	Progeny 145	13,310	13,392
Delta Grow 4200	16,191	14,894	Progeny 156	14,611	14,319
Delta Grow 4500	13,710	—	Progeny 166	14,231	13,781
Delta Grow 4888	14,290	13,586	Progeny EK Exp. 110 (Exp.)	13,410	—
Delta King 1551W	13,887	15,819	Progeny EK Exp. 138 (Exp.)	12,462	—
Delta King 7777	15,046	15,037	Progeny EK Exp. 180 (Exp.)	14,840	—
Delta King 7900	13,738	14,329	SS 520	11,509	12,104
Delta King 9027	17,684	17,095	SS 522	12,964	13,100
Delta King 9121	17,161	16,233	SS 524	16,094	15,532
Delta King 9216	13,758	14,462	SS 535	11,724	11,916
Delta King 9410	13,626	13,385	SS 560	13,414	—
Delta King XTJ098 (Exp.)	13,064	—	Terral LA422	15,753	15,378
Dixie 900	13,831	13,960	Terral LA841	14,914	14,111
Dixie 922	15,407	—	Terral TV8450	15,456	14,241
Dixie 933	15,049	—	Terral TV8555	14,412	15,019
Dixie 9512	13,442	—	Terral TV8565	16,568	14,727
GA 931241E16 (Exp.)	14,885	—	Terral TV8466	11,480	—
Genesis 9939	14,438	13,405	Terral TVX81H04 (Exp.)	13,293	—
Genesis M86	14,276	13,936	Terral TVX82H01 (Exp.)	12,773	—
Genesis R023	13,834	13,416	Terral TVX82H02 (Exp.)	13,429	—
Genesis R024	11,681	11,981	USG 3209	13,411	12,676
Genesis R033	13,714	—	USG 3350	13,321	—
Genesis R043	12,249	—	USG 3430	13,250	—
Genesis Venture	12,276	—	USG 3709	11,545	11,153
HBK 3030	15,280	—	VA McCormick	14,505	14,260
HBK X3106 (Exp.)	11,488	—	Vigoro Tribute	12,265	—

**Table 11. Average number of oat seeds per pound for varieties entered in 2003 variety trials.**

Brand/Variety	2002-03 average	2-year average	Brand/Variety	2002-03 average	2-year average
	<i>seeds/lb</i>	<i>seeds/lb</i>		<i>seeds/lb</i>	<i>seeds/lb</i>
FL 9708-P37 (Exp.)	16,356	13,185	LA966BIB119-1 (Exp.)	16,952	—
Horizon 314	13,831	17,814	LA976GBI-22-B-I2 (Exp.)	17,358	—
Horizon 474	16,112	—	LA982IBI-26 (Exp.)	13,312	—
LA9535D36-5 (Exp.)	14,551	—	LA989IBI-49-B-I1 (Exp.)	17,363	—
LA966BIB-151-1 (Exp.)	13,782	—	Plot Spike Forage Oat	17,067	16,647
LA989IBI-49 (Exp.)	16,842	—	Terral Secretariat LA495	20,872	18,260

**Table 12. 2002-03 oat yields at location 2,  
MAFES Black Belt Branch Station, Brooksville (Brooksville silt clay soil).<sup>1</sup>**

Brand/Variety	2002-03 yield	2-year avg. yield <sup>2</sup>	3-year avg. yield <sup>2</sup>	Test weight	Date headed <sup>3</sup>	Plant height	Lodging score <sup>4</sup>
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>		<i>in</i>	
Secretariat LA495	98.0	—	—	28	—	38	1
LA966BIB-151-1	91.1	—	—	31	—	37	1
LA9535D36-5	88.1	—	—	30	—	31	1
LA976GBI-22-B-12	85.7	—	—	31	—	37	1
LA989IBI-49	84.5	—	—	32	—	38	1
LA982IBI-26	83.1	—	—	29	—	38	1
LA989IBI-49-B-11	82.5	—	—	32	—	38	1
Horizon 474	72.6	—	—	34	—	34	1
Plot Spike Forage Oat	68.9	—	—	32	—	41	1
FL 9708-P37	65.0	—	—	30	—	40	1
Horizon 314	30.3	—	—	27	—	39	1
Overall mean	76.9	—	—				
LSD (.10)	12.7	—	—				
Error degrees of freedom	30	—	—				
CV (%)	13.7	—	—				
R <sup>2</sup> (%)	85	—	—				

<sup>1</sup>Planted Dec. 2, 2002 Harvested June 10, 2003 Soil fertility: pH=6.9; P=H; K=M  
Fertilizer added: Preplant — 13-13-13 @ 250 lb/A (Nov. 29, 2002); Topdress — 34-0-0 @ 300 lb/A (March 4, 2003)  
Previous crop: Soybeans

<sup>2</sup>No 2- or 3-year averages.

<sup>3</sup>No heading dates taken.

<sup>4</sup>See "Procedures" for a description of lodging scores.

**Table 13. 2002-03 oat yields at location 7,  
MAFES Coastal Plain Branch Station, Newton (Prentiss very fine sandy loam soil).<sup>1</sup>**

Brand/Variety	2002-03 yield	2-year avg. yield	3-year avg. yield	Test weight	Date headed	Plant height	Lodging score <sup>2</sup>
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>lb/bu</i>		<i>in</i>	
LA976GBI-22-B-12	113.4	—	—	36	04/16	40	1
Secretariat LA495	106.3	90.5	72.9	34	04/18	40	1
FL 9708-P37	102.4	—	—	34	04/18	39	*
LA982IBI-26	99.8	—	—	33	04/21	41	2
LA966BIB-151-1	93.6	—	—	34	04/16	36	1
LA989IBI-49	92.6	—	—	34	04/21	36	1
Horizon 474	90.6	76.1	—	36	04/14	40	1
LA989IBI-49-B-11	89.3	—	—	34	04/21	36	1
LA9535D36-5	89.3	—	—	33	04/18	36	1
Plot Spike Forage Oat	88.8	—	—	36	04/22	48	1
Horizon 314	81.3	72.2	66.1	30	04/21	40	1
Overall mean	95.2	79.6	69.5				
LSD (.10)	15.3	10.3	10.2				
Error degrees of freedom	30	12	9				
CV (%)	13.4	14.5	19.6				
R <sup>2</sup> (%)	59	80	88				

<sup>1</sup>Planted Nov. 25, 2002 Harvested May 29, 2003 Soil fertility: pH=6.7; P=H; K=M  
Fertilizer added: Preplant — N @ 30 lb/A, P<sub>2</sub>O<sub>5</sub> @ 60 lb/A, K<sub>2</sub>O @ 60 lb/A (Dec. 17, 2002); Topdress — N @ 60 lb/A (Feb. 20, 2003)  
Herbicide: Harmony Extra @ 0.5 oz/A on Feb. 27, 2003 Previous crop: Oats

<sup>2</sup>See "Procedures" for a description of lodging scores.

**Table 14. Yield summary of 2002-03 oat variety trials in Mississippi.**

<b>Brand/Variety</b>	<b>Newton</b>	<b>Brooksville</b>	<b>Overall avg.</b>
	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
FL 9708-P37 (Exp.)	102.4	65.0	83.7
Horizon 314	81.3	30.3	56.6
Horizon 474	90.6	72.6	81.6
LA9535D36-5 (Exp.)	89.3	88.1	88.7
LA966BIB-151-1 (Exp.)	93.6	91.1	92.4
LA989IBI-49 (Exp.)	92.6	84.5	88.5
LA976GBI-22-B-12 (Exp.)	113.4	85.7	99.5
LA982IBI-26 (Exp.)	99.8	83.1	91.5
LA989IBI-49-B-11 (Exp.)	89.3	82.5	85.9
Plot Spike Forage Oat	88.8	68.9	78.9
Terral Secretariat LA495	106.3	98.0	102.2
Overall Mean	95.2	76.9	86.0
LSD (.10)	15.3	12.7	9.8
Error degrees of freedom	30	30	60
CV (%)	13.4	13.7	13.6
R <sup>2</sup> (%)	59	85	80

# COMMERCIAL WHEAT BRANDS/VARIETIES ENTERED

AgriPro Seeds, Inc. P.O. Box 2365 Jonesboro, AR 72402	AgriPro Natchez AgriPro Shelby AgriPro Savage (was D97-6075)	
AgSouth Genetics LLC 136 Red Oak Ave. Albany, GA 31707	AGS 2000 AGS 2485	
Armor Seed Company P.O. Box 17 Fisher, AR 72429	Armor 3035 Armor 4045	Armor X5222 (Exp.) Armor X5333 (Exp.)
Cache River Valley Seed 12470 Hwy. 226 Cash, AR 72421	Dixie 900 Dixie 922 Dixie 933	
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 9027	Delta King 9121 Delta King 9216 Delta King 9410 Delta King XTJ098 (Exp.)
Genesis Brand Seed P.O. Box 21085 Lansing, MI 48909	Genesis 9939 Genesis M86 Genesis R023 Genesis R024	Genesis R033 Genesis R043 Genesis Venture
Hornbeck Seed Co., Inc. P.O. Box 472 DeWitt, AR 72042	HBK 3030 HBK X3106 (Exp.)	
Pioneer Hi-Bred Intl. 6767 Old Madison Pike Suite 110 Huntsville, AL 35806	Pioneer variety 26R24 Pioneer variety 26R38 Pioneer variety 26R58	Pioneer variety 26R61 Pioneer variety 26R12 (was XW00J)
Progeny Ag Products/ Erwin Keith, Inc. 1529 Hwy. 193 Wynne, AR 72396	Progeny 145 Progeny 156 Progeny 166	Progeny EK Exp. 110 (Exp.) Progeny EK Exp. 138 (Exp.) Progeny EK Exp. 180 (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 522 SS 524	SS 535 SS 560
Syngenta Seeds P.O. Box 729 Bay, AR 72411	NK Coker 9152 NK Coker 9663 NK Coker B960457 (Exp.)	
Terral Seed Co., Inc. P.O. Box 826 Lake Providence, LA 71254	Terral LA422 Terral TV8450 Terral TV8555 Terral TV8565 Terral TV8466 (was TVX81466)	Terral LA841 (was LA90518PB43-3-1-4) Terral TVX81H04 (Exp.) Terral TVX82H01 (Exp.) Terral TVX82H02 (Exp.)
UniSouth Genetics, Inc. 2640 C Nolensville Rd. Nashville, TN 37211	USG 3209 USG 3350	USG 3430 USG 3709

## PUBLIC WHEAT VARIETIES ENTERED

University of Arkansas 115 Plant Science Bldg. Fayetteville, AR 72701	AR Pat AR Sabbe
University of Georgia Georgia Station Griffin, GA 30223	GA 931241E16 (Exp.)
Louisiana State University Agronomy Dept. Baton Rouge, LA 70803	LA90185G3-1-3-4-2 (Exp.)
NC Foundation Seed Producers 8220 Riley Hill Rd. Zebulon, NC 27597	NC96-13156 (Exp.)
VCIA & EVAREC P.O. Box 338 Warsaw, VA 22572	VA McCormick

## PUBLIC AND COMMERCIAL OAT BRANDS/VARIETIES ENTERED

North Florida Res. & Ed. Center University of Florida-NFREC 155 Research Rd. Quincy, FL 32351	FL 9708-P37 (Exp.)
Louisiana State University Agronomy Dept. Baton Rouge, LA 70803	LA9535D36-5 (Exp.) LA966BIB-151-1 (Exp.) LA989IBI-49 (Exp.) LA966BIB119-1 (Exp.)
Plantation Seed Conditioners, Inc. Route 1, Box 695 Newton, GA 31770-9716	Horizon 314 Horizon 474
Ragan & Massey, Inc. 100 Ponchatoula Parkway Ponchatoula, LA 70454	Plot Spike Forage Oat
Terral Seed, Inc. P.O. Box 826 Lake Providence LA, 71254	Terral Secretariat LA495

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