Mississippi Wheat and Oat Variety Trials, 2002

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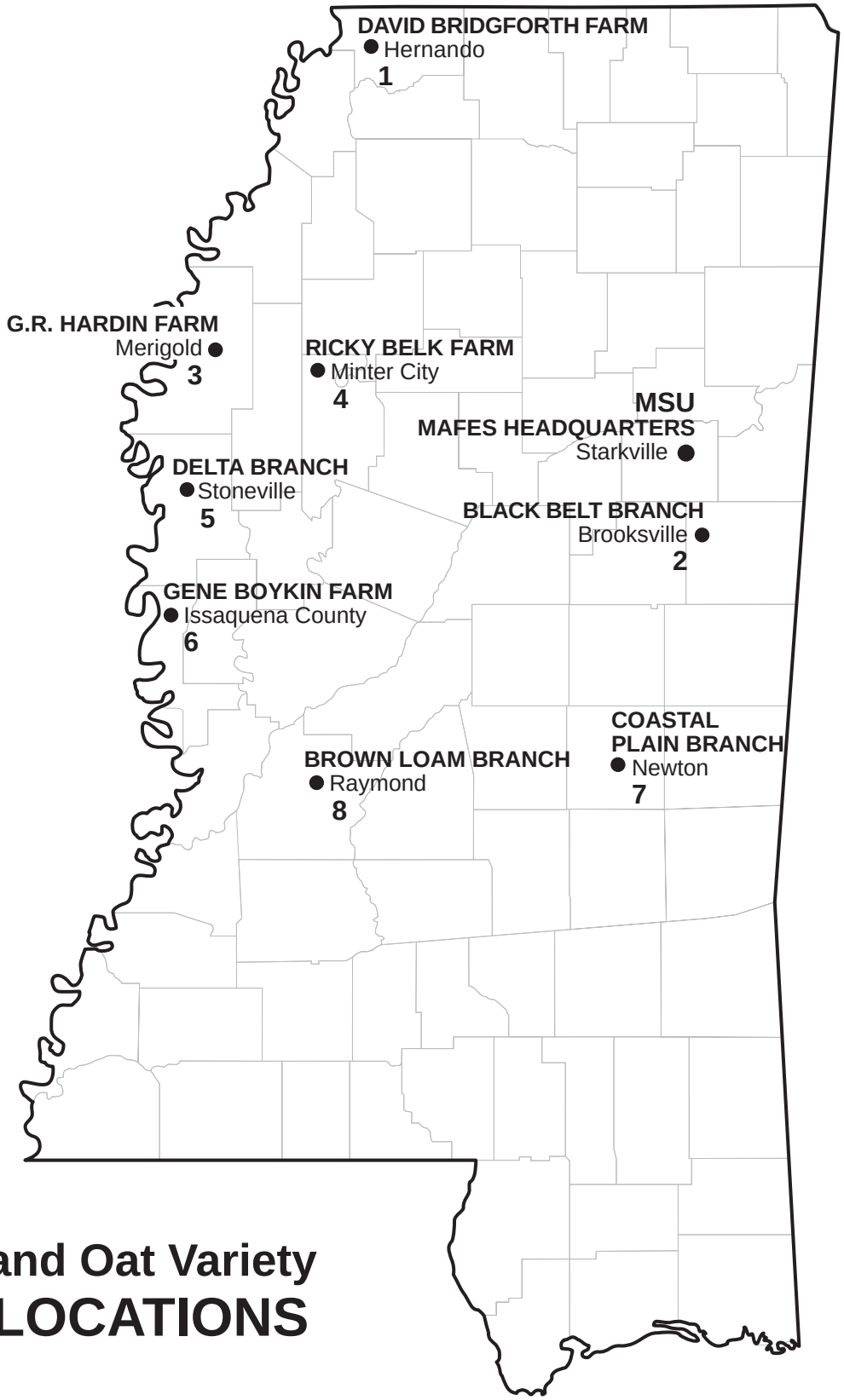

Wheat and Oat Variety
TEST LOCATIONS

Mississippi Wheat and Oat Variety Trials, 2002

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 2001-2002. 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 maximum 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 seed were packaged for planting at the rate of 20 seed 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 panicle.

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 eastern 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 with drilled rates since surface establishment is extremely dependent upon ambient environmental conditions. Thus, aerial seeding is usually 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 are 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 20 plants per square foot.

Cold Requirements. Winter varieties of small grains require a period of cold weather (less than 40°F) before the plants will form seed heads. The time varies with variety, but approximately 4 to 9 weeks are required. This process is called vernalization. Most of the wheat varieties planted in Mississippi require low temperatures to reproduce; oats do not. In some years, there is not enough cold weather in south Mississippi for some northern-adapted wheat varieties, resulting in little or no seed-head production. Normally, these varieties have late heading dates at south Mississippi locations. Check adaptation of unfamiliar varieties with an MSU Extension Service agent or seed company representative.

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

North Mississippi	Oct. 1 to Nov. 5
Central Mississippi	Oct.15 to Nov. 25
South Mississippi	Nov. 1 to Dec. 10

Disease 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. Have soil tested and apply lime, phosphate, and potash

according to 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 requires approximately 2 pounds of nitrogen for each bushel of grain produced. Apply approximately 25% of the nitrogen in the fall. Apply the remainder 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 MSU-ES Information Sheet 961, *Small Grains Production*.

Use of Data Tables and Summary Statistics

The yield potential of a given variety cannot be measured with complete accuracy. Consequently, replicate plots of all varieties are evaluated for yield, and the yield of a given variety is estimated as the mean of all replicate plots of that variety. Yields vary somewhat from one replicate plot to another, which introduces a certain degree of error to the estimate of yield potential. This natural variation is often responsible for yield differences among different varieties. Thus, even if the mean yields of two varieties are numerically different, they are not necessarily significantly different in terms of yield potential. In other words, the ability to measure yield is not precise enough to determine whether such small differences are observed purely by chance or because of superior performance.

The least significant difference (LSD) is an estimate of the smallest difference between two varieties that can be declared to be the result of something other than random variation in a particular trial. Consider the following example for a given trial:

Variety	Yield
Abe	60 bu/A
Bill	55 bu/A
Charlie	51 bu/A
LSD	7 bu/A

The difference between variety Abe and variety Bill is 5 bushels per acre (60 - 55 = 5). This difference is **smaller** than the LSD (7 bushels per acre). Consequently, it is concluded that variety Abe and variety Bill have the same yield potential, since the observed difference occurred purely due to chance.

The difference between variety Abe and variety Charlie is 9 bushels per acre (60 - 51 = 9), which is **larger** than the LSD (7 bushels per acre). Therefore, it is concluded that the yield potential of variety Abe is superior to that of variety Charlie, since the difference is larger than would be expected purely by chance.

The coefficient of variation (CV) is a measure of the relative precision of a given trial and is used to compare the relative precision of different trials. The CV is generally considered an estimate of the amount of unexplained variation in a given trial. This unexplained variation can be the result of variation between plots, with respect to soil type, fertility, insects, diseases, drought stress, etc. Overall, the higher the CV, the lower the precision in a given trial.

The coefficient of determination (R^2) is another measure of the level of precision in a trial and is also used to compare the relative precision of different trials. The R^2 is a measure of the amount of variation that is explained, or accounted for, in a given trial. For example, an R^2 value of 90% indicates that 90% of the observed variation in the trial has been accounted for in the trial, with the remaining 10% being unaccounted. The higher the R^2 value, the more precise the trial. The R^2 is generally considered a better measure of precision than the CV for comparison of different trials.

Weather Summary by Location

Location 1 - David Bridgforth Farm, Hernando. The crop had a good start, and fair growing conditions throughout the growing season. Wet conditions at the end of April and May encouraged late-season disease pressure.

Location 2 - Black Belt Branch, Brooksville. Poor stands followed by wet weather, prevented replanting, resulting in no test results at Brooksville in 2002.

Location 3 - G. R. Hardin Farm, Merigold. The crop had a good start, but heavy rainfall at the end of November was the first of many wet periods. Some areas of the field were damaged by wet conditions. Tilt was applied on April 4 to control diseases. Wet weather continued until harvest.

Location 4 - Ricky Belk Farm, Minter City. The wheat variety trials were planted into good soil moisture. One inch of rain fell the night after planting. The wheat emerged to a good stand. No disease ratings were taken but some varieties had a significant outbreak of rust. Surface drainage was good. Internal drainage in the western side of the plot area was poor. That part of the plot area was waterlogged for approximately one month during the early spring, which resulted in lower yields.

Location 5 - Delta Branch, Stoneville. Fall planting received adequate rainfall for germination and a good stand was achieved. Growing conditions were favorable, establishing healthy plants. Average rainfall was received in October while in November, December and January nearly double the monthly average was received. February was dry with nearly double normal amounts of rainfall in March. In April and May rainfall was below average. Temperatures were mild through the growing season without any prolonged freezing weather.

Location 6 - Gene Boykin Farm, Issaquena County. Weather from November 2001 through the end of May 2002, was typical for this area. Rainfall received for this time period was above normal. Temperatures were not excessively cool for the period. There was one hard freeze in late March, which did not appear to affect wheat heading.

Location 7 - Coastal Plain Branch, Newton. Sufficient moisture at planting resulted in good seed emergence and early plant growth. Mild temperatures with only a few cold nights did not injure the wheat or oats. A drier than normal spring resulted in no disease pressure.

Location 8 - Brown Loam Branch, Raymond. Adequate soil moisture at planting time resulted in good seed germination. Mild winter weather and adequate rainfall resulted in good plant growth. Disease and insects were not significant problems. Good weather allowed harvest in a timely manner.

Table 1. 2001-02 wheat yields at location 1, David Bridgforth Farm, Hernando (Collins silt loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed[3]	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
Genesis R023	88.3	—	—	57	31.9	—	43	1
Delta Grow 4200	80.8	—	—	57	31.9	—	44	1
Progeny 145	80.8	—	—	57	32.3	—	39	1
AR Pat	80.4	82.7	—	56	29.7	—	44	1
Delta King 9410	78.8	75.4	—	56	31.4	—	45	2
Delta King 1551	78.6	74.3	77.4	56	28.3	—	38	1
Pioneer variety XW00J	77.6	—	—	58	32.8	—	37	1
Delta King 9333	77.6	72.7	—	57	32.8	—	44	1
Dixie X9512	77.4	—	—	56	32.4	—	40	1
Progeny 166	77.2	—	—	56	28.0	—	45	2
Delta King 7900	77.1	78.8	—	56	29.8	—	42	2
Delta King 7777	75.7	75.7	—	59	28.3	—	38	3
Dixie 900	74.8	73.8	—	56	30.5	—	44	1
Progeny 118	74.1	—	—	56	30.4	—	46	2
Armor 3235	73.5	77.2	78.3	57	31.5	—	44	1

Continued.

Table 1 (continued). 2001-02 wheat yields at location 1, David Bridgforth Farm, Hernando (Collins silt loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed[2]	Plant height	Lodging score[3]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
Terral TV8565	72.7	76.3	—	57	33.6	—	42	1
Genesis M86	72.3	77.6	—	56	32.8	—	42	3
AgriPro D97-6075	72.1	—	—	55	29.3	—	39	1
Progeny 133	71.7	—	—	56	29.7	—	44	2
USG 3709	70.5	76.5	77.4	57	38.8	—	40	1
Pioneer variety 2684	70.4	68.8	72.2	58	35.0	—	36	1
AR Sabbe	70.1	70.9	74.2	56	37.2	—	40	1
AgriPro Shelby	68.9	67.8	75.3	58	33.8	—	37	1
Delta Grow 4888	67.1	—	—	56	29.4	—	41	2
AgriPro Natchez	65.8	71.4	—	57	29.2	—	45	4
VA Roane	65.8	64.9	73.5	55	27.4	—	37	1
Croplan Genetics 517W	65.4	65.4	68.6	54	27.2	—	35	1
Terral TV8450	65.3	75.5	—	58	32.2	—	42	1
Delta Grow 5300	63.9	—	—	55	30.5	—	41	2
Dixie X9611	63.5	—	—	55	27.4	—	44	1
Progeny 156	63.5	—	—	55	27.3	—	42	3
Pioneer variety 26R46	63.3	72.9	76.5	55	31.1	—	38	2
Progeny 188	62.4	—	—	57	28.7	—	44	2
VA McCormick	61.8	—	—	56	24.4	—	36	3
SS 524	60.9	—	—	55	27.3	—	37	1
Pioneer variety 26R38	60.0	69.5	74.8	56	35.2	—	40	4
Genesis R024	59.7	—	—	55	33.3	—	34	1
Croplan Genetics 554W	59.5	69.7	—	55	29.0	—	36	1
NK Coker 9152	59.5	70.8	—	56	30.5	—	41	3
SS 535	57.8	63.4	72.6	57	28.7	—	37	2
FFR 556	57.7	—	—	56	25.0	—	36	4
Delta King 9216	57.6	61.4	—	57	29.5	—	39	3
Progeny 103	56.5	—	—	55	31.6	—	41	2
Pioneer variety 26R61	56.5	66.7	—	58	35.9	—	38	1
VA98W-593	56.3	66.9	—	59	28.9	—	34	1
Genesis 9939	55.8	62.4	73.1	55	27.5	—	42	2
Delta King 9027	55.4	60.6	67.0	56	23.4	—	35	4
Terral TV 8555	54.9	65.8	76.0	53	25.4	—	38	2
USG 3209	54.8	64.7	70.6	54	28.9	—	32	4
Delta King 9121	54.7	65.9	67.7	56	27.5	—	36	1
FFR 522W	53.5	59.4	73.1	58	25.8	—	37	2
VA Jackson	50.4	—	—	53	22.8	—	35	3
Terral TVX81466	49.9	—	—	54	26.7	—	39	2
NK Coker 9184	49.7	59.3	—	54	22.8	—	42	3
AGS 2000	48.9	57.8	—	56	31.0	—	36	3
AR LA85411	48.1	56.4	67.2	55	25.0	—	38	3
GA 92485E15	48.0	—	—	55	27.4	—	38	3
SS 522	47.8	58.1	—	58	24.4	—	38	2
LA90185G3-1-3-4-2	46.0	—	—	56	30.6	—	39	2
SS 520	45.9	—	—	54	28.7	—	38	3
FFR 510	45.6	57.8	67.8	54	27.5	—	37	2
VA Sisson	44.9	—	—	55	27.7	—	32	4
NK Coker 9663	43.9	62.6	74.5	55	24.4	—	42	4
LA9389C37-1	39.9	—	—	56	28.2	—	35	1
LA94242D4-4	39.6	—	—	52	24.4	—	39	3
Terral LA422	37.9	51.0	60.0	52	20.8	—	39	5
LA90518PB43-3-1-4	37.2	53.3	—	49	20.9	—	36	4
SS 518	35.5	45.6	59.9	54	25.9	—	34	2
LA9397D5-2-2	33.2	—	—	50	17.2	—	33	4
Overall Mean	61.1	67.0	71.6					
LSD (.10)	9.4	7.3	5.2					
Error degrees of freedom	204	240	189					
CV (%)	13.2	13.2	10.7					
R^2 (%)	78	71	83					

[1]Planted October 30, 2001 Harvested June 17, 2002 Soil fertility: pH=6.0; P=H; K=H
Fertilizer added: N @ 100 lb/A Herbicide: None Previous crop: Soybeans
[2]Heading dates were not taken.
[3]See "Procedures" for a description of lodging scores.

Table 2. 2001-02 wheat yields at location 3, G. R. Hardin Farm, Merigold (Forestdale silt loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
Genesis R023	80.7	—	—	59	28.5	04/17	43	1
Dixie X9512	78.7	—	—	59	30.4	04/17	45	1
Progeny 166	78.3	—	—	59	28.6	04/19	46	1
Delta King 7900	76.0	—	—	57	27.2	04/17	43	1
Terral TV8565	75.3	—	—	58	29.2	04/19	43	1
AGS 2000	74.6	—	—	59	33.3	04/17	40	1
Delta Grow 4200	74.3	—	—	58	29.0	04/19	43	1
Pioneer variety XW00J	74.0	—	—	59	29.1	04/19	41	1
Delta King 7777	73.5	—	—	57	24.7	04/17	42	1
Dixie 900	73.4	—	—	58	27.8	04/19	44	1
Progeny 145	72.8	—	—	58	27.7	04/17	45	1
USG 3709	72.4	—	—	56	29.3	04/17	42	1
Genesis M86	71.8	—	—	59	28.5	04/19	46	1
USG 3209	71.7	—	—	58	32.0	04/15	35	1
VA McCormick	71.3	—	—	59	25.2	04/17	38	1
Progeny 103	71.1	—	—	57	28.7	04/18	46	2
GA 92485E15	70.0	—	—	60	29.6	04/13	39	1
Progeny 156	69.9	—	—	57	28.2	04/19	41	1
Progeny 133	69.8	—	—	57	27.6	04/16	45	1
Delta King 9410	69.4	—	—	58	29.0	04/17	37	1
Croplan Genetics 554W	68.8	—	—	56	25.8	04/17	40	1
Terral TV8450	67.5	—	—	56	26.7	04/18	43	1
VA Jackson	67.3	—	—	57	24.4	04/19	41	1
AgriPro D97-6075	67.2	—	—	58	25.2	04/19	36	1
AgriPro Shelby	66.8	—	—	58	28.1	04/22	41	1
LA90185G3-1-3-4-2	66.7	—	—	57	29.4	04/16	41	1
Delta King 9027	66.6	—	—	57	21.8	04/16	44	2
SS 535	66.2	—	—	58	29.1	04/19	40	1
VA98W-593	65.9	—	—	59	28.0	04/17	36	1
AR Sabbe	65.5	—	—	58	28.8	04/18	41	1
Delta Grow 5300	65.1	—	—	58	30.7	04/18	44	1
AgriPro Natchez	65.1	—	—	57	29.8	04/19	41	1
Progeny 118	65.0	—	—	60	30.3	04/19	45	1
Genesis 9939	64.5	—	—	58	24.7	04/19	41	2
FFR 556	64.4	—	—	56	25.0	04/18	38	1
Terral TVX81466	63.6	—	—	55	28.8	04/19	41	1
Delta King 9216	63.5	—	—	55	24.7	04/19	45	1
NK Coker 9152	63.4	—	—	57	30.5	04/16	43	2
Pioneer variety 26R61	63.4	—	—	62	35.0	04/16	41	1
Genesis R024	63.3	—	—	57	28.3	04/19	37	1
AR LA85411	63.1	—	—	59	26.2	04/17	41	2
Delta King 1551	62.5	—	—	59	26.2	04/17	41	1
NK Coker 9663	62.3	—	—	60	30.3	04/13	44	2
LA90518PB43-3-1-4	61.9	—	—	57	27.4	04/15	35	1
Pioneer variety 2684	61.8	—	—	60	31.1	04/14	36	2
Terral LA422	61.7	—	—	57	27.2	04/17	39	2
VA Roane	61.6	—	—	57	24.5	04/19	38	1
Armor 3235	61.5	—	—	57	26.5	04/19	41	1
Pioneer variety 26R38	60.9	—	—	59	34.7	04/16	43	1
FFR 522W	60.5	—	—	60	24.2	04/17	40	1
Delta King 9121	60.2	—	—	57	21.4	05/15	36	1
Delta Grow 4888	60.2	—	—	58	27.1	04/19	45	1
LA9397D5-2-2	60.2	—	—	55	20.9	04/15	32	1
Delta King 9333	59.9	—	—	56	28.5	04/15	46	1
AR Pat	59.9	—	—	58	25.9	04/19	42	1
VA Sisson	58.9	—	—	58	32.1	04/16	38	1
Progeny 188	58.5	—	—	55	28.0	04/14	39	1
Croplan Genetics 517W	57.2	—	—	57	24.6	04/15	40	1
SS 524	56.6	—	—	54	24.8	04/15	36	1
SS 522	56.4	—	—	59	23.7	04/18	42	1
SS 520	55.2	—	—	56	30.5	04/13	40	1
NK Coker 9184	54.0	—	—	60	29.5	04/19	37	1
FFR 510	53.8	—	—	56	30.5	04/13	40	1
Dixie X9611	53.7	—	—	57	26.3	04/21	40	1
SS 518	53.7	—	—	54	28.8	04/14	37	1
Pioneer variety 26R46	51.1	—	—	58	33.5	04/15	39	1

Continued.

Table 2 (continued). 2001-02 wheat yields at location 3, G. R. Hardin Farm, Merigold (Forestdale silt loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
Terral TV 8555	51.1	—	—	57	26.0	04/21	36	1
LA94242D4-4	47.7	—	—	57	32.9	04/15	40	1
LA9389C37-1	45.8	—	—	59	34.2	04/17	35	1
Overall Mean	64.5	—	—					
LSD (.10)	10.9	—	—					
Error degrees of freedom	204	—	—					
CV (%)	14.5	—	—					
R^2 (%)	78	—	—					

[1]Planted October 24, 2001 Harvested June 7, 2002 Soil fertility: pH=7.2; P=H; K=H
Fertilizer added: 41-0-0-4 @ 275 lb/A Herbicide: 2,4-D @ l.75 pt/A Previous crop: corn
[2]See "Procedures" for a description of lodging scores.

Table 3. 2001-02 wheat yields at location 4 Ricky Belk Farm, Minter City (Forestdale silt loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
AGS 2000	78.7	—	—	58	38.6	04/11	38	1
Progeny 166	78.1	—	—	58	29.1	04/22	44	1
AgriPro Natchez	76.4	—	—	55	31.0	04/22	43	1
Dixie 900	76.1	—	—	56	30.1	04/22	40	1
Progeny 145	75.7	—	—	57	30.1	04/22	41	1
Dixie X9512	75.7	—	—	55	26.3	04/22	41	2
Delta Grow 4888	75.3	—	—	57	27.9	04/22	43	1
VA McCormick	72.9	—	—	58	27.1	04/22	36	2
LA90518PB43-3-1-4	72.1	—	—	57	30.2	04/16	34	1
Genesis M86	71.4	—	—	58	29.9	04/22	39	1
Terral TV8450	71.3	—	—	57	28.1	04/22	44	2
SS 524	71.3	—	—	55	28.7	04/16	33	1
Genesis R023	70.9	—	—	56	29.4	04/22	42	1
Delta Grow 4200	70.9	—	—	56	30.0	04/22	38	1
Progeny 133	69.8	—	—	56	24.9	04/22	43	1
Terral TVX81466	69.5	—	—	57	31.2	04/22	34	1
NK Coker 9152	68.8	—	—	57	33.4	04/22	39	1
Terral TV8565	68.2	—	—	56	29.8	04/22	39	1
Progeny 103	67.8	—	—	57	29.5	04/22	39	2
AR LA85411	67.6	—	—	58	29.4	04/22	35	1
Croplan Genetics 554W	67.3	—	—	55	25.4	04/22	31	1
AgriPro Shelby	67.2	—	—	57	26.5	04/16	41	2
AR Sabbe	67.1	—	—	55	32.5	04/22	38	1
Pioneer variety XW00J	66.8	—	—	58	25.5	04/22	39	1
Delta King 9216	66.5	—	—	54	23.6	04/22	40	1
Delta King 7900	66.4	—	—	56	24.8	04/22	47	2
Delta Grow 5300	66.4	—	—	57	31.0	04/22	40	2
GA 92485E15	66.2	—	—	59	29.3	04/16	38	1
VA Roane	65.7	—	—	56	22.3	04/22	39	1
VA98W-593	65.7	—	—	60	30.8	04/22	33	1
LA90185G3-1-3-4-2	65.2	—	—	56	35.0	04/16	37	1
USG 3209	64.9	—	—	58	34.8	04/16	31	1
Progeny 156	64.7	—	—	58	29.8	04/22	38	1
Delta King 9410	64.3	—	—	57	28.6	04/22	42	1
Genesis 9939	64.0	—	—	56	26.8	04/22	40	1
Progeny 188	63.9	—	—	55	27.7	04/22	36	1
FFR 510	63.4	—	—	55	26.5	04/16	41	1
Pioneer variety 26R38	63.2	—	—	56	37.7	04/16	35	1
Delta King 9027	63.2	—	—	56	22.3	04/22	41	1
Pioneer variety 26R46	62.9	—	—	58	39.6	04/16	34	1
AR Pat	62.7	—	—	59	30.0	04/26	32	1
Delta King 1551	62.6	—	—	58	28.1	04/22	33	1

Continued.

Table 3 (continued). 2001-02 wheat yields at location 4 Ricky Belk Farm, Minter City (Forestdale silt loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
Delta King 7777	62.6	—	—	58	27.1	04/22	38	1
FFR 522W	61.9	—	—	59	26.0	04/22	37	1
USG 3709	61.9	—	—	59	27.2	04/22	38	1
Pioneer variety 2684	61.2	—	—	58	35.3	04/16	36	1
NK Coker 9184	60.6	—	—	60	28.3	04/22	35	1
SS 520	59.9	—	—	56	29.5	04/16	35	1
Pioneer variety 26R61	59.8	—	—	60	41.3	04/16	39	1
Terral LA422	59.5	—	—	58	31.7	04/22	37	1
Delta King 9333	59.5	—	—	58	31.5	04/22	42	1
SS 522	58.8	—	—	60	25.3	04/22	33	1
Genesis R024	58.2	—	—	58	32.0	04/22	34	1
Armor 3235	56.8	—	—	57	32.4	04/22	35	1
LA9389C37-1	56.7	—	—	59	34.2	04/16	31	1
FFR 556	56.4	—	—	55	22.7	04/22	37	2
Dixie X9611	55.8	—	—	50	24.2	04/22	41	2
SS 535	55.0	—	—	56	22.8	04/22	33	1
AgriPro D97-6075	54.7	—	—	56	33.1	04/22	33	1
Croplan Genetics 517W	53.5	—	—	56	27.3	04/16	34	1
VA Jackson	52.8	—	—	56	24.2	04/22	39	2
LA94242D4-4	52.5	—	—	58	30.8	04/16	38	1
Terral TV 8555	52.5	—	—	57	27.6	04/22	26	1
Progeny 118	51.9	—	—	59	30.9	04/22	37	1
VA Sisson	51.7	—	—	58	31.3	04/22	34	1
LA9397D5-2-2	51.7	—	—	56	23.7	04/16	30	1
Delta King 9121	49.8	—	—	55	22.0	04/22	39	1
Overall Mean	64.1	—	—					
LSD (.10)	11.9	—	—					
Error degrees of freedom	198	—	—					
CV (%)	15.9	—	—					
R^2 (%)	41	—	—					

[1]Planted October 24, 2001 Harvested June 6, 2002 Soil fertility: pH=5.3; P=H; K=H
Fertilizer added: Preplant - N @ 18 lb/A; P_2O_5 @ 46 lb/A; Herbicide: None Previous crop: Cotton
Topdress - N @ 92 lb/A
NOTE: Because of browsing by deer, no yield data were taken for NK Coker 9663 and SS 518.
[2]See "Procedures" for a description of lodging scores.

Table 4. 2001-02 wheat yields at location 5, MAFES Delta Branch Station, Stoneville (Tunica silty clay soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
AR Sabbe	87.0	—	—	57	33.9	04/15	40	1
Dixie X9512	83.3	—	—	56	30.1	04/05	47	2
Delta Grow 4200	83.0	—	—	57	29.6	04/10	47	1
Genesis R023	80.5	—	—	58	30.1	04/10	45	1
Progeny 166	80.5	—	—	58	27.2	04/10	46	2
Delta King 1551	79.1	—	—	58	29.9	04/10	38	1
Genesis M86	78.6	—	—	57	29.6	04/08	44	1
Terral TV8450	78.1	—	—	58	31.3	04/08	44	1
Pioneer variety 26R46	78.0	—	—	57	37.4	04/02	44	1
Progeny 145	77.4	—	—	58	27.6	04/02	42	1
Pioneer variety XW00J	76.3	—	—	59	29.1	04/11	44	1
LA90185G3-1-3-4-2	76.0	—	—	59	35.0	04/05	39	1
Dixie 900	75.4	—	—	57	30.2	04/10	45	1
Delta King 9410	74.9	—	—	58	28.2	04/11	35	1
FFR 556	74.4	—	—	57	25.0	04/08	38	1

Continued.

Table 4 (continued). 2001-02 wheat yields at location 5, MAFES Delta Branch Station, Stoneville (Tunica silty clay soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
AgriPro D97-6075	74.3	—	—	58	26.6	04/10	39	1
Terral TV8565	74.1	—	—	58	28.6	04/11	45	1
AgriPro Natchez	73.5	—	—	55	32.0	04/08	44	1
Delta Grow 4888	73.2	—	—	58	27.9	04/05	45	1
SS 535	73.2	—	—	59	28.4	04/08	39	1
SS 524	73.1	—	—	56	23.9	03/29	37	1
NK Coker 9152	73.0	—	—	58	32.8	04/10	44	2
Delta King 9333	73.0	—	—	56	29.3	04/15	42	1
AR Pat	72.7	—	—	59	26.8	04/17	35	1
Genesis R024	72.5	—	—	59	33.3	04/14	39	1
LA90518PB43-3-1-4	72.5	—	—	57	32.6	04/06	40	1
AGS 2000	72.2	—	—	59	33.0	04/02	40	1
Croplan Genetics 554W	72.0	—	—	55	27.1	04/06	37	1
Delta King 7900	71.8	—	—	57	28.0	04/10	44	1
AgriPro Shelby	71.3	—	—	59	35.1	04/05	43	1
Delta King 7777	71.2	—	—	59	26.2	04/11	42	1
Progeny 133	71.1	—	—	55	27.7	04/08	42	1
Pioneer variety 26R61	70.7	—	—	60	38.0	03/31	40	1
Armor 3235	70.4	—	—	57	29.4	04/10	41	2
Croplan Genetics 517W	70.1	—	—	55	22.8	03/28	38	1
VA McCormick	70.0	—	—	59	26.7	04/09	35	1
Delta King 9216	69.9	—	—	58	27.2	04/14	45	1
Pioneer variety 26R38	69.1	—	—	58	37.7	04/10	40	1
USG 3709	69.0	—	—	57	33.4	04/14	42	1
Terral LA422	68.8	—	—	59	30.3	04/06	44	2
Terral TVX81466	68.8	—	—	56	30.9	04/08	45	1
Progeny 188	68.7	—	—	55	31.8	04/11	41	1
Delta Grow 5300	68.4	—	—	57	34.9	04/08	41	1
Genesis 9939	67.8	—	—	56	29.1	04/15	41	1
AR LA85411	67.7	—	—	57	26.6	04/10	39	2
Pioneer variety 2684	67.5	—	—	61	32.2	04/08	39	2
Terral TV 8555	67.1	—	—	58	27.0	04/12	41	1
VA98W-593	66.5	—	—	59	26.1	04/08	37	2
VA Jackson	66.1	—	—	56	24.7	04/11	44	1
Progeny 103	65.9	—	—	56	31.5	04/10	41	1
USG 3209	65.9	—	—	60	35.7	04/10	43	1
Dixie X9611	65.9	—	—	56	27.9	04/15	42	1
NK Coker 9663	62.7	—	—	58	29.2	04/06	39	2
FFR 510	61.7	—	—	56	29.9	04/07	39	1
Progeny 156	60.7	—	—	57	29.7	04/15	41	1
Progeny 118	60.5	—	—	60	27.7	04/13	42	1
GA 92485E15	60.4	—	—	58	28.8	03/26	42	1
NK Coker 9184	59.4	—	—	59	30.2	04/14	36	1
LA9397D5-2-2	59.2	—	—	58	24.5	03/31	36	1
FFR 522W	59.0	—	—	58	23.2	04/07	41	2
SS 522	58.8	—	—	58	24.6	04/14	39	1
Delta King 9027	57.7	—	—	56	21.5	04/14	41	1
VA Roane	57.0	—	—	58	22.4	04/11	40	1
LA9389C37-1	56.6	—	—	58	33.4	04/09	37	1
Delta King 9121	55.4	—	—	56	24.0	04/13	38	1
SS 520	52.8	—	—	56	27.4	04/01	44	1
SS 518	50.7	—	—	56	26.8	03/26	37	1
VA Sisson	49.4	—	—	58	25.6	04/16	36	1
LA94242D4-4	46.6	—	—	58	28.4	04/01	41	1
Overall Mean	68.8	—	—					
LSD (.10)	8.5	—	—					
Error degrees of freedom	204	—	—					
CV (%)	10.5	—	—					
R^2 (%)	64	—	—					

[1]Planted October 23, 2001
Fertilizer added: N @ 250 lb/A
Harvested June 12, 2002
Herbicide: None
Soil fertility: pH=5.9; P=M; K=H
Previous crop: Soybeans

[2]See “Procedures” for a description of lodging scores.

Table 5. 2001-02 wheat yields at location 6, Gene Boykin Farm, Issaquena County (Tunica clay soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
Delta King 1551	72.4	73.0	76.3	58	28.6	04/16	39	1
Progeny 166	71.8	—	—	57	30.0	04/17	44	1
AgriPro Shelby	70.8	70.0	71.5	59	33.2	04/10	36	1
Dixie 900	70.4	70.0	—	56	32.4	04/18	41	1
Delta King 7777	70.2	73.2	—	57	26.2	04/17	43	1
Delta Grow 4200	68.7	—	—	57	30.3	04/16	40	1
Delta King 9410	68.4	69.3	—	57	31.7	04/17	40	1
AgriPro D97-6075	68.4	—	—	59	27.9	04/19	37	1
Genesis M86	68.1	67.2	—	56	32.4	04/15	41	1
Pioneer variety XW00J	67.9	—	—	60	34.0	04/17	37	1
GA 92485E15	67.7	—	—	60	31.9	04/10	42	1
AR Pat	67.5	70.1	—	57	30.2	04/20	38	1
Genesis R023	67.5	—	—	56	32.4	04/13	40	1
Progeny 133	67.5	—	—	56	30.2	04/17	39	1
Terral TV8450	67.1	65.5	—	57	32.0	04/15	43	1
AGS 2000	66.6	65.5	—	58	38.3	04/10	35	1
Progeny 145	66.6	—	—	58	32.6	04/14	42	1
Dixie X9512	66.1	—	—	56	33.4	04/14	39	1
Terral TV8565	65.9	66.5	—	57	31.6	04/17	39	1
USG 3709	65.5	67.1	69.1	57	39.1	04/16	38	1
LA90518PB43-3-1-4	65.4	68.7	—	56	31.6	04/13	37	1
NK Coker 9152	65.2	59.6	—	55	32.5	04/13	42	1
Delta King 9333	65.1	70.6	—	57	28.9	04/17	44	1
Delta King 9216	65.0	67.7	—	57	32.2	04/19	38	1
FFR 556	64.7	—	—	58	28.2	04/16	36	1
SS 524	64.0	—	—	57	27.4	04/13	36	1
AR LA85411	63.8	65.1	63.1	57	29.6	04/12	38	1
Delta Grow 4888	63.2	—	—	56	31.0	04/16	44	1
LA90185G3-1-3-4-2	63.0	—	—	58	31.8	04/11	38	1
USG 3209	62.9	64.2	68.8	58	34.3	04/12	36	1
Pioneer variety 26R38	62.5	72.5	77.6	56	36.9	04/14	39	1
VA Sisson	62.3	—	—	58	33.3	04/15	31	1
Progeny 156	61.8	—	—	57	32.1	04/19	37	1
Pioneer variety 2684	61.8	56.4	65.7	58	34.8	04/09	34	1
VA McCormick	61.5	—	—	59	29.9	04/17	38	1
Delta Grow 5300	61.4	—	—	55	30.1	04/16	41	1
Armor 3235	61.4	61.3	62.3	56	32.1	04/16	41	1
Progeny 188	61.2	—	—	57	34.1	04/17	37	1
Croplan Genetics 517W	61.0	69.4	68.3	55	26.7	04/10	36	1
Genesis 9939	60.9	64.1	71.6	57	30.8	04/20	41	1
Croplan Genetics 554W	60.8	62.5	—	57	31.2	04/17	38	1
Terral LA422	60.4	62.6	66.8	57	28.2	04/14	37	1
Delta King 9027	60.3	65.0	70.9	55	24.3	04/19	39	1
Delta King 7900	60.3	61.1	—	57	29.7	04/17	40	1
LA9389C37-1	59.7	—	—	56	33.5	04/13	35	1
LA9397D5-2-2	59.6	—	—	56	26.0	04/11	32	1
Terral TV 8555	59.4	58.7	63.1	58	33.0	04/17	37	1
Pioneer variety 26R46	57.9	65.9	71.6	57	35.9	04/08	38	1
VA98W-593	57.7	61.9	—	59	29.5	04/15	38	1
VA Roane	57.5	57.1	59.6	58	24.8	04/19	37	1
Pioneer variety 26R61	57.4	69.8	—	60	39.8	04/13	39	1
Progeny 103	57.4	—	—	56	30.0	04/15	42	1
Terral TVX81466	57.3	—	—	58	33.1	04/18	36	1
AR Sabbe	56.7	61.1	63.8	56	33.9	04/15	38	1
Delta King 9121	56.5	59.7	64.7	55	24.9	04/17	38	1
NK Coker 9184	56.0	59.5	—	60	29.6	04/17	36	1
VA Jackson	55.5	—	—	58	29.5	04/16	42	1
AgriPro Natchez	55.2	50.3	—	56	33.1	04/18	40	1
FFR 510	55.2	49.2	—	56	34.3	04/14	37	1
Dixie X9611	54.8	—	—	55	27.0	04/20	39	1
SS 535	54.3	61.1	66.3	57	28.3	04/16	37	1
LA94242D4-4	54.3	—	—	59	34.7	04/15	38	1

Continued.

Table 5 (continued). 2001-02 wheat yields at location 6, Gene Boykin Farm, Issaquena County (Tunica clay soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
Genesis R024	54.1	—	—	58	34.9	04/18	39	1
SS 518	48.6	46.7	—	56	29.8	04/09	35	1
SS 520	47.2	—	—	56	31.8	04/11	38	1
Overall Mean	62.1	63.7	67.9					
LSD (.10)	7.2	6.8	7.8					
Error degrees of freedom	192	185	136					
CV (%)	9.9	12.2	16.3					
R^2 (%)	53	59	52					

[1]Planted October 29, 2001 Harvested June 3, 2002 Soil fertility: pH=6.7; P=M+; K=M+
Fertilizer added: N @ 106 lb/A Herbicide: 2, 4-D @ 1 qt/A Previous crop: Soybeans
NOTE: Because of browsing by deer, no yield data were taken for NK Coker 9663, Progeny 118, SS 522, and FFR 522W.
[2]See "Procedures" for a description of lodging scores.

Table 6. 2001-02 wheat yields at location 7, MAFES Coastal Plain Branch Station, Newton (Prentiss very fine sandy loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
Delta King 1551	61.5	62.2	66.9	57	25.2	04/12	40	1
USG 3209	61.0	68.2	73.8	54	32.3	04/04	33	1
Pioneer variety XW00J	61.0	—	—	59	34.9	04/12	39	1
Genesis M86	60.4	59.1	—	53	25.7	04/09	44	1
FFR 522W	60.3	65.2	69.2	57	27.9	04/09	40	1
Delta Grow 4200	58.5	—	—	57	26.8	04/12	39	1
AR Pat	57.5	66.0	—	58	26.5	04/17	42	1
SS 522	57.3	63.2	—	60	27.5	04/12	41	1
Progeny 166	57.2	—	—	54	26.7	04/12	43	1
Terral TVX81466	56.9	—	—	56	31.2	04/12	39	1
VA McCormick	56.4	—	—	58	31.2	04/09	38	1
Delta King 9410	56.2	58.7	—	57	26.9	04/12	44	1
FFR 510	56.0	61.4	70.0	53	28.4	04/09	41	1
AgriPro D97-6075	55.9	—	—	57	22.4	04/17	40	1
AgriPro Natchez	55.6	57.0	—	54	31.5	04/12	43	1
Terral TV8450	55.3	57.4	—	56	26.9	04/09	42	1
Progeny 145	55.1	—	—	54	25.2	04/09	44	1
Genesis R023	55.1	—	—	54	25.8	04/09	40	1
Dixie X9512	55.0	—	—	56	27.3	04/09	46	1
NK Coker 9184	54.8	64.1	—	58	26.5	04/14	39	1
Delta Grow 5300	54.5	—	—	53	25.1	04/12	41	2
SS 535	54.1	63.0	60.0	55	27.1	04/09	37	1
Dixie 900	54.1	61.9	—	55	27.2	04/12	41	1
AgriPro Shelby	54.0	56.5	63.5	58	30.5	04/09	42	1
Progeny 118	54.0	—	—	56	27.6	04/12	45	1
SS 520	53.7	—	—	54	28.0	04/09	40	1
Delta King 9333	53.7	57.2	—	53	26.1	04/15	46	1
Delta King 7777	53.5	56.0	—	53	22.1	04/12	44	1
Delta King 7900	53.3	59.8	—	53	25.8	04/12	40	1
Progeny 103	53.1	—	—	53	26.4	04/09	41	2
FFR 556	53.1	—	—	55	21.1	04/12	38	2
Croplan Genetics 554W	53.0	57.8	—	53	22.0	04/12	37	2
VA Roane	52.8	53.8	58.8	57	24.1	04/17	38	1
NK Coker 9152	52.8	61.8	—	56	28.7	04/09	41	2
Genesis R024	52.7	—	—	54	31.2	04/12	39	1
Delta Grow 4888	52.2	—	—	56	26.3	04/12	44	1
Armor 3235	51.6	55.4	59.5	54	27.6	04/09	42	1
AR Sabbe	51.3	57.9	63.2	55	29.5	04/13	39	1
Terral TV 8555	51.1	58.0	62.1	56	30.4	04/12	36	1
Croplan Genetics 517W	51.1	59.6	65.2	49	23.0	04/09	34	1

Continued.

Table 6 (continued). 2001-02 wheat yields at location 7, MAFES Coastal Plain Branch Station, Newton (Prentiss very fine sandy loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
Progeny 188	50.6	—	—	55	29.6	04/15	36	1
Terral TV8565	50.5	55.1	—	56	26.6	04/12	44	1
Progeny 133	50.0	—	—	54	27.6	04/12	42	1
VA Jackson	49.8	—	—	55	25.6	04/16	39	1
VA98W-593	49.5	55.9	—	56	27.7	04/09	33	1
AGS 2000	49.1	59.5	—	54	32.1	04/09	38	1
NK Coker 9663	48.1	58.4	64.7	56	26.3	04/09	40	1
Pioneer variety 26R61	47.9	58.6	—	56	36.5	04/09	41	1
Delta King 9216	47.8	56.7	—	54	26.7	04/15	42	1
Progeny 156	46.8	—	—	53	25.3	04/14	42	1
LA9397D5-2-2	46.2	—	—	52	21.7	04/09	33	1
GA 92485E15	45.6	—	—	52	27.6	04/09	38	1
SS 524	45.5	—	—	50	21.6	04/09	34	2
Pioneer variety 2684	45.3	54.3	59.5	57	30.8	04/09	37	1
LA90185G3-1-3-4-2	45.0	—	—	53	27.9	04/09	36	1
Dixie X9611	44.4	—	—	54	23.8	04/17	43	1
Delta King 9027	44.3	47.5	55.7	53	20.4	04/13	39	2
Genesis 9939	43.7	49.8	54.9	53	24.5	04/15	41	1
Terral LA422	43.5	55.7	60.3	55	27.1	04/09	39	1
Pioneer variety 26R38	43.4	58.7	68.2	51	30.6	04/09	43	2
LA90518PB43-3-1-4	41.6	53.9	—	54	25.5	04/09	39	1
SS 518	41.2	54.0	61.6	50	28.7	04/09	34	2
USG 3709	41.1	51.9	58.7	51	28.1	04/12	42	1
AR LA85411	40.7	44.8	55.8	57	25.2	04/09	36	1
LA94242D4-4	40.6	—	—	55	28.0	04/12	44	1
LA9389C37-1	40.3	—	—	55	31.5	04/09	33	1
VA Sisson	40.2	—	—	53	26.2	04/09	39	2
Delta King 9121	39.6	50.5	55.4	54	21.1	04/15	38	1
Pioneer variety 26R46	39.4	53.7	61.2	52	27.7	04/09	40	1
Overall Mean	50.8	57.6	62.2					
LSD (.10)	5.9	6.4	5.3					
Error degrees of freedom	204	240	189					
CV (%)	9.9	13.4	12.7					
R^2 (%)	68	69	78					

[1]Planted November 2, 2001 Harvested June 4, 2002 Soil fertility: pH=7.0; P=H; K=H
Fertilizer added: N=20 lb/A; P=60 lb/A; K=60 lb/A + N @ 100 lb/A Herbicide: Harmony Extra @ 0.5 oz/A Previous crop: Wheat
[2]See "Procedures" for a description of lodging scores.

Table 7. 2001-02 wheat yields at location 8, MAFES Brown Loam Branch, Raymond (Loring silt loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
Progeny 166	65.9	—	—	56	30.8	04/06	37	1
Delta King 9216	64.5	—	—	54	33.0	04/07	34	1
Genesis M86	63.1	—	—	55	33.0	04/04	39	1
Delta King 9410	62.4	—	—	56	33.3	04/04	38	1
Delta King 1551	62.2	—	—	55	30.6	04/04	35	1
Genesis R023	62.0	—	—	55	32.5	04/07	33	1
Delta King 7900	60.9	—	—	55	31.8	04/03	36	1
Terral TV8565	60.3	—	—	55	33.2	04/06	39	1
Delta King 7777	59.8	—	—	55	26.6	04/04	40	1
NK Coker 9152	58.9	—	—	56	34.1	04/07	41	1
Dixie 900	58.5	—	—	56	30.8	04/11	35	1
USG 3709	58.5	—	—	53	38.2	04/03	38	1
Terral TV8450	57.9	—	—	56	31.1	04/10	36	1
Delta Grow 4888	57.4	—	—	56	32.1	04/06	38	1

Continued.

Table 7 (continued). 2001-02 wheat yields at location 8, MAFES Brown Loam Branch, Raymond (Loring silt loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Seed weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu	g/1000		in	
Progeny 145	57.3	—	—	57	32.2	04/06	39	1
VA Roane	56.9	—	—	56	26.2	04/11	23	1
Croplan Genetics 554W	56.4	—	—	55	27.3	04/06	30	1
VA Jackson	56.3	—	—	55	30.7	04/06	33	1
Pioneer variety XW00J	56.3	—	—	56	33.5	04/03	29	1
Delta Grow 4200	56.0	—	—	55	30.1	04/05	37	1
Genesis 9939	56.0	—	—	55	34.0	04/04	39	1
Genesis R024	56.0	—	—	55	34.0	04/05	37	1
Terral TVX81466	55.8	—	—	56	35.9	04/11	36	1
Progeny 118	55.7	—	—	56	31.0	04/07	37	1
SS 535	55.3	—	—	54	30.7	04/08	33	1
AR Pat	55.2	—	—	54	30.9	04/03	33	1
FFR 522W	54.6	—	—	57	29.4	04/10	30	1
VA98W-593	53.7	—	—	57	31.2	04/06	30	1
Progeny 156	53.6	—	—	55	32.1	04/10	33	1
Dixie X9512	53.1	—	—	57	32.2	04/10	40	1
Delta Grow 5300	52.9	—	—	53	30.8	04/04	33	1
Croplan Genetics 517W	52.7	—	—	54	27.9	04/10	31	1
SS 524	52.6	—	—	53	28.3	04/08	29	1
Delta King 9121	52.4	—	—	56	26.2	04/06	29	1
VA McCormick	52.3	—	—	56	30.2	04/05	33	1
FFR 556	52.2	—	—	55	27.2	04/04	31	1
Delta King 9027	52.0	—	—	56	26.7	04/04	34	1
Progeny 188	51.9	—	—	54	32.9	04/03	33	1
Progeny 133	51.7	—	—	55	31.7	04/10	44	1
Delta King 9333	51.5	—	—	54	29.8	04/11	31	1
AgriPro Shelby	51.4	—	—	55	32.6	04/07	30	1
Progeny 103	51.1	—	—	54	30.8	04/08	33	1
AR Sabbe	50.2	—	—	53	32.8	04/02	31	1
FFR 510	50.0	—	—	55	32.6	04/04	37	1
SS 522	49.7	—	—	57	29.4	04/10	32	1
LA90518PB43-3-1-4	48.9	—	—	54	33.2	04/06	35	1
LA90185G3-1-3-4-2	48.9	—	—	54	33.0	04/04	34	1
Pioneer variety 2684	48.6	—	—	57	35.6	04/05	31	1
Armor 3235	48.5	—	—	56	31.9	04/11	33	1
AR LA85411	48.3	—	—	56	31.3	04/06	32	1
AgriPro D97-6075	48.2	—	—	56	28.4	04/03	30	1
AGS 2000	48.0	—	—	55	37.3	04/06	32	1
VA Sisson	47.9	—	—	56	32.3	04/06	34	1
Terral TV 8555	47.9	—	—	56	30.0	04/04	31	1
NK Coker 9184	47.9	—	—	58	30.5	04/04	31	1
USG 3209	47.9	—	—	58	35.9	04/18	32	1
SS 520	46.6	—	—	56	32.1	04/08	35	1
Terral LA422	46.6	—	—	56	30.2	04/05	32	1
GA 92485E15	46.3	—	—	56	30.4	04/07	33	1
AgriPro Natchez	46.3	—	—	53	32.3	04/05	35	1
Pioneer variety 26R38	46.2	—	—	55	35.4	04/10	38	1
Pioneer variety 26R61	45.1	—	—	58	39.3	04/06	33	1
LA9389C37-1	45.1	—	—	56	34.6	04/04	29	1
LA9397D5-2-2	44.1	—	—	54	23.7	04/05	27	1
NK Coker 9663	42.5	—	—	56	33.9	04/07	38	1
Pioneer variety 26R46	39.9	—	—	54	34.0	04/02	34	1
Dixie X9611	39.1	—	—	50	24.0	04/11	29	1
SS 518	38.1	—	—	52	31.8	04/18	28	1
LA94242D4-4	24.4	—	—	56	32.4	04/06	38	1
Overall Mean	52.1	—	—					
LSD (.10)	7.8	—	—					
Error degrees of freedom	204	—	—					
CV (%)	12.8	—	—					
R^2 (%)	70	—	—					

[1]Planted November 1, 2001 Harvested June 5, 2002 Soil fertility: pH=6.5; P=H; K=M
Fertilizer added: Preplant - N @ 100 lb/A Herbicide: None Previous crop: Cotton
[2]See "Procedures" for a description of lodging scores.

Table 8. Yield summary of 2001-02 wheat variety trials in Mississippi.

Brand/Variety	Hernando	North avg.	Newton	Raymond	South avg.	Merigold	Issaquena	Minter City	Stoneville	Delta avg.	Overall avg.
	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
AgriPro Natchez	65.8	65.8	55.6	46.3	50.9	65.1	55.2	76.4	73.5	67.5	62.5
AgriPro Shelby	68.9	68.9	54.0	51.4	52.7	66.8	70.8	67.2	71.3	69.0	64.3
AgriPro D97-6075 (Exp.)	72.1	72.1	55.9	48.2	52.0	67.2	68.4	54.7	74.3	66.2	63.0
AGS 2000	48.9	48.9	49.1	48.0	48.6	74.6	66.6	78.7	72.2	73.0	62.6
AR LA 85411 (Exp.)	48.1	48.1	40.7	48.3	44.5	63.1	63.8	67.6	67.7	65.5	57.0
AR Pat	80.4	80.4	57.5	55.2	56.4	59.9	67.5	62.7	72.7	65.7	65.1
AR Sabbe	70.1	70.1	51.3	50.2	50.8	65.5	56.7	67.1	87.0	69.1	64.0
Armor 3235	73.5	73.5	51.6	48.5	50.1	61.5	61.4	56.8	70.4	62.5	60.5
Croplan Genetics 517W	65.4	65.4	51.1	52.7	51.9	57.2	61.0	53.5	70.1	60.5	58.7
Croplan Genetics 554W	59.5	59.5	53.0	56.4	54.7	68.8	60.8	67.3	72.0	67.2	62.5
Delta Grow 4200	80.8	80.8	58.5	56.0	57.3	74.3	68.7	70.9	83.0	74.2	70.3
Delta Grow 4888	67.1	67.1	52.2	57.4	54.8	60.2	63.2	75.3	73.2	68.0	64.1
Delta Grow 5300	63.9	63.9	54.5	52.9	53.7	65.1	61.4	66.4	68.4	65.3	61.8
Delta King 1551	78.6	78.6	61.5	62.2	61.8	62.5	72.4	62.6	79.1	69.2	68.4
Delta King 7777	75.7	75.7	53.5	59.8	56.7	73.5	70.2	62.6	71.2	69.4	66.6
Delta King 7900	77.1	77.1	53.3	60.9	57.1	76.0	60.3	66.4	71.8	68.6	66.5
Delta King 9027	55.4	55.4	44.3	52.0	48.2	66.6	60.3	63.2	57.7	62.0	57.1
Delta King 9121	54.7	54.7	39.6	52.4	46.0	60.2	56.5	49.8	55.4	55.5	52.7
Delta King 9216	57.6	57.6	47.8	64.5	56.1	63.5	65.0	66.5	69.9	66.2	62.1
Delta King 9333	77.6	77.6	53.7	51.5	52.6	59.9	65.1	59.5	73.0	64.4	62.9
Delta King 9410	78.8	78.8	56.2	62.4	59.3	69.4	68.4	64.3	74.9	69.2	67.8
Dixie 900	74.8	74.8	54.1	58.5	56.3	73.4	70.4	76.1	75.4	73.8	69.0
Dixie X9512 (Exp.)	77.4	77.4	55.0	53.1	54.1	78.7	66.1	75.7	83.3	75.9	69.9
Dixie X9611 (Exp.)	63.5	63.5	44.4	39.1	41.7	53.7	54.8	55.8	65.9	57.6	53.9
FFR 510	45.6	45.6	56.0	50.0	53.0	53.8	55.2	63.4	61.7	58.5	55.1
FFR 522W	53.5	53.5	60.3	54.6	57.5	60.5	—	61.9	59.0	—	—
FFR 556	57.7	57.7	53.1	52.2	52.6	64.4	64.7	56.4	74.4	65.0	60.4
GA 92485E15 (Exp.)	48.0	48.0	45.6	46.3	45.9	70.0	67.7	66.2	60.4	66.0	57.7
Genesis 9939	55.8	55.8	43.7	56.0	49.9	64.5	60.9	64.0	67.8	64.3	58.9
Genesis M86	72.3	72.3	60.4	63.1	61.7	71.8	68.1	71.4	78.6	72.5	69.4
Genesis R023	88.3	88.3	55.1	62.0	58.5	80.7	67.5	70.9	80.5	74.9	72.1
Genesis R024	59.7	59.7	52.7	56.0	54.4	63.3	54.1	58.2	72.5	62.0	59.5
LA90185G3-1-3-4-2 (Exp.)	46.0	46.0	45.0	48.9	47.0	66.7	63.0	65.2	76.0	67.7	58.7
LA90518PB43-3-1-4 (Exp.)	37.2	37.2	41.6	48.9	45.2	61.9	65.4	72.1	72.5	68.0	57.1
LA9389C37-1 (Exp.)	39.9	39.9	40.3	45.1	42.7	45.8	59.7	56.7	56.6	54.7	49.2
LA9397D5-2-2 (Exp.)	33.2	33.2	46.2	44.1	45.2	60.2	59.6	51.7	59.2	57.7	50.6
LA94242D-4-4 (Exp.)	39.6	39.6	40.6	24.4	32.5	47.7	54.3	52.5	46.6	50.3	43.7
NK Coker 9152	59.5	59.5	52.8	58.9	55.9	63.4	65.2	68.8	73.0	67.6	63.1
NK Coker 9184	49.7	49.7	54.8	47.9	51.4	54.0	56.0	60.6	59.4	57.5	54.6
NK Coker 9663	43.9	43.9	48.1	42.5	45.3	62.3	—	—	62.7	—	
Pioneer variety 2684	70.4	70.4	45.3	48.6	47.0	61.8	61.8	61.2	67.5	63.1	59.5
Pioneer variety 26R38	60.0	60.0	43.4	46.2	44.8	60.9	62.5	63.2	69.1	63.9	57.9
Pioneer variety 26R46	63.3	63.3	39.4	39.9	40.0	51.1	57.9	62.9	78.0	62.5	56.1
Pioneer variety 26R61	56.5	56.5	47.9	45.1	46.5	63.4	57.4	59.8	70.7	62.8	57.3
Pioneer variety XW00J (Exp.)	77.6	77.6	61.0	56.3	58.6	74.0	67.9	66.8	76.3	71.3	68.6
Progeny 103	56.5	56.5	53.1	51.1	52.1	71.1	57.4	67.8	65.9	65.5	60.4
Progeny 118	74.1	74.1	54.0	55.7	54.8	65.0	—	51.9	60.5	—	—
Progeny 133	71.7	71.7	50.0	51.7	50.9	69.8	67.5	69.8	71.1	69.6	64.5
Progeny 145	80.8	80.8	55.1	57.3	56.2	72.8	66.6	75.7	77.4	73.1	69.4
Progeny 156	63.5	63.5	46.8	53.6	50.2	69.9	61.8	64.7	60.7	64.3	60.2
Progeny 166	77.2	77.2	57.2	65.9	61.5	78.3	71.8	78.1	80.5	77.2	72.7
Progeny 188	62.4	62.4	50.6	51.9	51.3	58.5	61.2	63.9	68.7	63.1	59.6
SS 518	35.5	35.5	41.2	38.1	40.0	53.7	48.6	—	50.7	—	—
SS 520	45.9	45.9	53.7	46.6	50.2	55.2	47.2	59.9	52.8	53.8	51.6
SS 522	47.8	47.8	57.3	49.7	53.5	56.4	—	58.8	58.8	—	—
SS 524	60.9	60.9	45.5	52.6	49.1	56.6	64.0	71.3	73.1	66.2	60.6
SS 535	57.8	57.8	54.1	55.3	54.7	66.2	54.3	55.0	73.2	62.2	59.4
Terral TV8555	54.9	54.9	51.1	47.9	49.5	51.1	59.4	52.5	67.1	57.5	54.9
Terral LA422	37.9	37.9	43.5	46.6	45.1	61.7	60.4	59.5	68.8	62.6	54.1
Terral TV8450 (Exp.)	65.3	65.3	55.3	57.9	56.6	67.5	67.1	71.3	78.1	71.0	66.1
Terral TV8565 (Exp.)	72.7	72.7	50.5	60.3	55.4	75.3	65.9	68.2	74.1	70.9	66.7
Terral TVX81466 (Exp.)	49.9	49.9	56.9	55.8	56.4	63.6	57.3	69.5	68.8	64.8	60.3
USG 3209	54.8	54.8	61.0	47.9	54.5	71.7	62.9	64.9	65.9	66.3	61.3
USG 3709	70.5	70.5	41.1	58.5	49.8	72.4	65.5	61.9	69.0	67.2	62.7
VA Jackson	50.4	50.4	49.8	56.3	53.1	67.3	55.5	52.8	66.1	60.1	56.9

Continued.

Table 8 (continued). Yield summary of 2001-02 wheat variety trials in Mississippi.

Brand/Variety	Hernando	North avg.	Newton	Raymond	South avg.	Merigold	Issaquena	Minter City	Stoneville	Delta avg.		Overall avg.
	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A		bu/A
VA McCormick	61.8	61.8	56.4	52.3	54.3	71.3	61.5	72.9	70.0	68.9		63.7
VA Roane	65.8	65.8	52.8	56.9	54.9	61.6	57.5	65.7	57.0	60.4		59.6
VA Sisson	44.9	44.9	40.2	47.9	44.0	58.9	62.3	51.7	49.4	55.6		50.8
VA98W-593 (Exp.)	56.3	56.3	49.5	53.7	51.6	65.9	57.7	65.7	66.5	64.0		59.3
Overall Mean	61.1	61.1	50.8	52.1	51.5	64.5	62.1	64.1	68.8	65.3		60.9
LSD (.10)	9.4	9.4	5.9	7.8	4.9	10.9	7.2	11.9	8.5	4.9		3.4
Error degrees of freedom	204	204	204	204	408	204	192	198	204	756		1323
CV (%)	13.2	13.2	9.9	12.8	11.5	14.5	9.9	15.9	10.5	12.9		12.7
R^2 (%)	78	78	68	70	69	78	53	41	64	66		75

Table 9. Wheat varietal reactions to disease in Mississippi.[1]

Brand/Variety	Leaf rust[2]	Leaf blotch glume blotch[2]	Other diseases[3]
AgriPro Natchez	—	—	—
AgriPro Shelby	MR	MS	SR
AgriPro D97-6075 (Exp.)	—	—	—
AGS 2000	R	MR	—
AR LA 85411 (Exp.)	R	MR	SR
AR Pat	—	MS	SR
AR Sabbe	—	—	SR
Armor 3235	S	MR	SR
Croplan Genetics 517W	—	—	—
Croplan Genetics 554W	—	—	—
Delta Grow 4200	—	—	—
Delta Grow 4888	—	—	—
Delta Grow 5300	—	—	—
Delta King 1551W	R	MR	SR
Delta King 7777	—	—	—
Delta King 7900	—	—	—
Delta King 9027	MR	R	SR
Delta King 9121	R	MR	SR
Delta King 9216	—	—	—
Delta King 9333	—	—	—
Delta King 9410	—	—	—
Dixie 900	—	—	—
Dixie X9512 (Exp.)	—	—	—
Dixie X9611 (Exp.)	—	—	—
FFR 510	—	R	SR
FFR 522W	R	R	SR
FFR 556	—	—	—
GA 92485E15 (Exp.)	—	MR	—
Genesis 9939	—	MR	—
Genesis M86	—	—	—
Genesis R023	—	—	—
Genesis R024	—	—	—
LA90185G3-1-3-4-2 (Exp.)	—	—	—
LA90518PB43-3-1-4 (Exp.)	—	MR	SR
LA9389C37-1 (Exp.)	—	—	—
LA9397D5-2-2 (Exp.)	—	—	—
LA94242D-4-4 (Exp.)	—	—	—
NK Coker 9152	—	—	—
NK Coker 9184	—	—	—
NK Coker 9663	R	MS	SR
Pioneer variety 2684	MS	MS	SR
Pioneer variety 26R38	—	—	—
Pioneer variety 26R46	S	MS	SR
Pioneer variety 26R61	MR	MR	—
Pioneer variety XW00J (Exp.)	—	—	—
Progeny 103	—	—	—
Progeny 118	—	—	—
Progeny 133	—	—	—
Progeny 145	—	—	—
Progeny 156	—	—	SR
Progeny 166	—	—	—
Progeny 188	—	—	—
SS 518	R	MS	—
SS 520	—	—	—
SS 522	R	R	—
SS 524	—	—	—
SS 535	—	R	—
Terral TV8555	MR	MS	SR
Terral LA422	MR	MS	—
Terral TV8450 (Exp.)	—	—	—
Terral TV8565 (Exp.)	—	—	—
Terral TVX81466 (Exp.)	—	—	—
USG 3209	R	MS	SR
USG 3709	R	—	SR
VA Jackson	S	MS	—
VA McCormick	R	MS	—
VA Roane	MR	R	SR
VA Sisson	—	—	—
VA98W-593 (Exp.)	R	MR	—

[1]Prepared by Dr. Larry Trevathan, plant pathologist, Department of Entomology and Plant Pathology.
[2]R = resistant — little or no disease; MR = moderately resistant — little or no economic loss; MS = moderately susceptible — moderate economic loss possible; S = susceptible — economic loss probable; – = disease symptoms not observed.
[3]SR = stripe rust.

Table 10. Oat varietal reactions to disease in Mississippi.[1]

Brand/Variety	Crown rust[2]	Stem rust[2]	Other diseases[3]
Chapman	—	—	BYD
Horizon 314	—	—	—
Horizon 474	MR	MR	—
LA90104C22-7-4-1 (Exp.)	—	—	—
LA9213E105-4 (Exp.)	—	—	—
LA9339E45 (Exp.)	—	—	—
LA9533D36-6 (Exp.)	R	R	—
LA9533D63-1 (Exp.)	—	—	—
Terral Secretariat LA495	—	—	BYD

[1]Prepared by Dr. Larry Trevathan, plant pathologist, Department of Entomology and Plant Pathology.
[2]R = resistant — little or no disease; MR = moderately resistant — little or no economic loss; MS = moderately susceptible — moderate economic loss possible; S = susceptible — economic loss probable; – = disease symptoms not observed.
[3]BYD = barley yellow dwarf.

Table 11. Average number of wheat seeds per pound for varieties entered in 2002 variety trials.

Brand/Variety	2001-02 average	2-year average
	seeds/lb	seeds/lb
AgriPro Natchez	11,964	12,089
AgriPro Shelby	11,310	11,190
AgriPro D97-6075 (Exp.)	15,843	—
AGS 2000	11,106	—
AR LA 85411 (Exp.)	14,672	14,763
AR Pat	13,180	13,283
AR Sabbe	12,665	12,764
Armor 3235	12,743	12,964
Croplan Genetics 517W	14,597	14,845
Croplan Genetics 554W	13,326	12,879
Delta Grow 4200	13,596	—
Delta Grow 4888	12,882	—
Delta Grow 5300	12,823	—
Delta King 1551W	17,751	17,128
Delta King 7777	15,027	14,488
Delta King 7900	14,919	14,419
Delta King 9027	16,506	16,017
Delta King 9121	15,305	15,358
Delta King 9216	15,167	14,524
Delta King 9333	14,044	13,542
Delta King 9410	13,143	14,149
Dixie 900	14,088	13,613
Dixie X9512 (Exp.)	11,885	—
Dixie X9611 (Exp.)	13,312	—
FFR 510	13,325	—
FFR 522W	14,109	13,880
FFR 556	13,029	12,731
GA 92485E15 (Exp.)	15,203	—
Genesis 9939	12,372	12,524
Genesis M86	13,596	13,297
Genesis R023	12,998	—
Genesis R024	12,281	—
LA90185G3-1-3-4-2 (Exp.)	11,386	—
LA90518PB43-3-1-4 (Exp.)	13,307	12,912
LA9389C37-1 (Exp.)	12,043	—
LA9397D5-2-2 (Exp.)	19,127	—
LA94242D-4-4 (Exp.)	12,595	—
NK Coker 9152	—	—
NK Coker 9184	13,684	13,448
NK Coker 9663	15,137	13,452
Pioneer variety 2684	12,251	11,901
Pioneer variety 26R38	10,318	10,434
Pioneer variety 26R46	10,495	10,594
Pioneer variety 26R61	9,939	10,231
Pioneer variety XW00J (Exp.)	11,716	—
Progeny 103	13,290	—
Progeny 118	14,938	—
Progeny 133	14,647	—
Progeny 145	13,474	—
Progeny 156	14,027	—
Progeny 166	13,331	—
Progeny 188	11,485	—
SS 518	14,374	14,834
SS 520	12,699	—
SS 522	13,236	14,185
SS 524	14,970	—
SS 535	12,107	12,943
Terral TV8555	15,626	14,577
Terral LA422	15,003	14,221
Terral TV8450 (Exp.)	13,025	13,151
Terral TV8565 (Exp.)	12,885	13,072
Terral TVX81466 (Exp.)	11,438	—
USG 3209	11,941	11,391
USG 3709	10,760	10,937
VA Jackson	13,170	—
VA McCormick	14,014	—
VA Roane	13,844	—
VA Sisson	10,809	—
VA98W-593 (Exp.)	11,283	11,671

Table 12. Average number of oat seeds per pound for varieties entered in 2002 variety trials.

Brand/Variety	2001-02 average	2-year average	Brand/Variety	2001-02 average	2-year average
	seeds/lb	seeds/lb		seeds/lb	seeds/lb
Chapman	18,151	16,994	LA9339E45 (Exp.)	16,226	16,348
Horizon 314	12,540	12,800	LA9533D36-6 (Exp.)	14,106	—
Horizon 474	19,516	—	LA9533D63-1 (Exp.)	16,006	—
LA90104C22-7-4-1 (Exp.)	14,556	—	Terral Secretariat LA495	15,647	15,778
LA9213E105-4 (Exp.)	18,987	—			

Table 13. 2001-02 oat yields at location 7, MAFES Coastal Plain Branch Station, Newton (Prentiss very fine sandy loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu		in	
Secretariat LA495	74.7	56.1	100.5	31	04/09	41	2
LA9339E45	71.4	—	—	33	04/14	42	2
Chapman	65.0	63.7	92.9	29	04/09	41	1
LA9213E105-4	64.5	—	—	35	04/12	43	2
Horizon 314	63.1	58.6	100.5	29	04/14	45	3
Horizon 474	61.6	—	—	32	04/09	47	1
LA90104C22-7-4-1	60.4	—	—	31	04/12	38	1
LA9533D63-1	53.8	—	—	30	04/14	46	3
LA9533D36-6	45.6	—	—	32	04/17	44	1
Overall mean	62.2	59.4	98.0				
LSD (.10)	9.6	10.4	103				
Error degrees of freedom	24	12	18				
CV (%)	12.8	19.7	14.8				
R^2 (%)	68	77	88				

[1]Planted November 2, 2001 Harvested June 4, 2002 Soil fertility: pH=7.0; P=H; K=H
Fertilizer added: N @ 20 lb/A; P @ 60 lb/A; K @ 60 lb/A + N @ 68 lb/A Herbicide: Harmony @ 0.5 oz/A Previous crop: Oats
[2]See "Procedures" for a description of lodging scores.

Table 14. 2001-02 oat yields at location 8, MAFES Brown Loam Branch Station, Raymond (Loring silt loam soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu		in	
LA9533D36-6	70.1	—	—	30	04/15	38	1
Secretariat LA495	69.9	—	—	32	04/13	40	2
LA9213E105-4	66.4	—	—	32	04/14	36	1
LA9533D63-1	62.9	—	—	30	04/16	41	1
LA9339E45	62.8	—	—	30	04/16	39	1
LA90104C22-7-4-1	62.6	—	—	29	04/15	34	1
Horizon 474	61.6	—	—	31	04/14	40	1
Chapman	59.9	—	—	30	04/15	33	1
Horizon 314	58.8	—	—	29	04/14	33	1
Overall mean	63.9	—	—				
LSD (.10)	9.5	—	—				
Error degrees of freedom	24	—	—				
CV (%)	12.3	—	—				
R^2 (%)	64	—	—				

[1]Planted November 1, 2001 Harvested June 5, 2002 Soil fertility: pH=6.5; P=H; K=M
Fertilizer added: Preplant - N @ 100 lb/A Herbicide: None Previous crop: Cotton
[2]See "Procedures" for a description of lodging scores.

Table 15. 2001-02 oat yields at location 5, MAFES Delta Branch Station, Stoneville (Tunica silty clay soil).[1]

Brand/Variety	2001-02 yield	2-Year avg. yield	3-Year avg. yield	Test weight	Date headed	Plant height	Lodging score[2]
	bu/A	bu/A	bu/A	lb/bu		in	
LA9339E45	126.6	—	—	36	04/12	47	1
Secretariat LA495	117.5	—	—	28	04/08	40	2
Horizon 474	111.2	—	—	32	03/29	43	3
Horizon 314	110.3	—	—	30	04/15	38	2
LA9533D36-6	110.0	—	—	32	04/08	39	2
LA9533D63-1	109.6	—	—	31	03/29	42	2
LA9213E105-4	106.5	—	—	34	04/13	36	3
LA90104C22-7-4-1	100.4	—	—	30	04/12	38	1
Chapman	93.6	—	—	28	03/31	34	2
Overall mean	109.5	—	—				
LSD (.10)	15.2	—	—				
Error degrees of freedom	24	—	—				
CV (%)	11.4	—	—				
R^2 (%)	56	—	—				

[1]Planted October 23, 2001 Harvested June 12, 2002 Soil fertility: pH=5.9; P=M; K=H
Fertilizer added: N @ 250 lb/A Herbicide: None Previous crop: Soybeans
[2]See "Procedures" for a description of lodging scores.

Table 16. Yield summary of 2001-02 oat variety trials in Mississippi.

Brand/Variety	Newton	Raymond	South avg.	Stoneville	Overall avg.
	bu/A	bu/A	bu/A	bu/A	bu/A
Chapman	65.0	59.9	62.4	93.6	72.8
Horizon 314	63.1	58.8	61.0	110.3	77.4
Horizon 474	61.6	61.6	61.6	111.2	78.1
LA90104C22-7-4-1 (Exp.)	60.4	62.6	61.5	100.4	74.5
LA9213E105-4 (Exp.)	64.5	66.4	65.5	106.5	79.2
LA9339E45 (Exp.)	71.4	62.8	67.1	126.6	87.0
LA9533D36-6 (Exp.)	45.6	70.1	57.9	110.0	75.3
LA9533D63-1 (Exp.)	53.8	62.9	50.0	109.6	75.4
Terral Secretariat LA495	74.7	69.9	72.3	117.5	87.4
Overall Mean	62.2	63.9	63.1	109.5	78.6
LSD (.10)	9.6	9.5	6.6	15.2	6.6
Error degrees of freedom	24	24	48	24	72
CV (%)	12.8	12.3	12.5	11.4	12.4
R^2 (%)	68	64	66	56	90

Commercial Wheat Brands/Varieties Entered

AgriPro Seeds, Inc. P.O. Box 2365 Jonesboro, AR 72402	AgriPro Natchez AgriPro Shelby AgriPro D97-6075 (Exp.)	
AgSouth Genetics, LLC 6830 Lisa Lane Dunwoody, GA 30338	AGS 2000	
Armor Seed Company P.O. Box 178 Fisher, AR 72429	Armor 3235 (was AR 494)	
Cache River Valley Seed 12470 Hwy. 226 Cash, AR 72421	Dixie 900 Dixie X9512 (Exp.) Dixie X9611 (Exp.)	
Land O' Lakes/Croplan Genetics Box 146 Blytheville, AR 72315	Croplan Genetics 517W (was GA901146E15) Croplan Genetics 554W (was VA97W-206)	
Delta Grow Seed P.O. Box 219 England, AR 72046	Delta Grow 4200 Delta Grow 4888 Delta Grow 5300	
Delta King Seed Co. P.O. Box 970 McCrory, AR 72101	Delta King 1551W Delta King 7777 (was DK XTJ7777) Delta King 7900 (was DK XTJ7900) Delta King 9027	Delta King 9121 Delta King 9216 Delta King 9333 (was DK XTJ9333) Delta King 9410
FFR Seed 969 Cloverleaf Drive Southaven, MS 38671	FFR 510 FFR 522W FFR 556 (was VA97W-206)	
Genesis Brand Seed P.O. Box 21085 Lansing, MI 48909	Genesis 9939 Genesis M86	Genesis R023 Genesis R024
Pioneer Hi-Bred Intl. 6767 Old Madison Pike Suite 110 Huntsville, AL 35806	Pioneer variety 2684 Pioneer variety 26R38 Pioneer variety 26R46	Pioneer variety 26R61 Pioneer variety XW00J (Exp.)
Progeny Ag Products/ Erwin Keith, Inc. 1529 Hwy. 193 Wynne, AR 72396	Progeny 103 Progeny 118 Progeny 133 Progeny 145	Progeny 156 Progeny 166 Progeny 188
Southern States Coop P.O. Box 26234 Richmond, VA 23260	SS 518 SS 520 SS 522	SS 524 SS 535
Syngenta Seeds P.O. Box 729 Bay, AR 72411	NK Coker 9152 (was BL940582) NK Coker 9184 (was BL940812) NK Coker 9663	
Terral Seed Co., Inc. P.O. Box 826 Lake Providence, LA 71254	Terral LA422 Terral TV8450 (Exp.) Terral TV8555	Terral TV8565 (Exp.) Terral TVX81466 (Exp.)
UniSouth Genetics, Inc. 2640 C Nolensville Rd. Nashville, TN 37211	USG 3209 USG 3709	

Public Wheat Varieties Entered

University of Arkansas 115 Plant Science Bldg. Fayetteville, AR 72701	AR LA 85411 (Exp.) AR Pat (was 839-27-1-3)	AR Sabbe
University of Georgia Georgia Station Griffin, GA 30223	92485E15 (Exp.)	
Louisiana State University Agronomy Dept. Baton Rouge LA 70803	LA90185G3-1-3-4-2 (Exp.) LA90518PB43-3-1-4 (Exp.) LA9389C37-1 (Exp.)	LA9397D5-2-2 (Exp.) LA94242D4-4 (Exp.)
VCIA & EVAREC P.O. Box 338 Warsaw, VA 22572	VA Jackson VA Roane VA Sisson	VA McCormick (was VA98W-591) VA98W-593 (Exp.)

Public and Commercial Oat Brands/Varieties Entered

North Florida Res. & Ed. Center University of Florida-NFREC 155 Research Rd. Quincy, FL 32351	Chapman	
Louisiana State University Agronomy Dept. Baton Rouge, LA 70803	LA90104C22-7-4-1 (Exp.) LA9213E105-4 (Exp.) LA9339E45 (Exp.)	LA9533D36-6 (Exp.) LA9533D63-1 (Exp.)
Plantation Seed Conditioners, Inc. Rt. 1, Box 695 Newton, GA 31770-9716	Horizon 314 Horizon 474 (was FLX474-1-B2-8-W1)	
Terral Seed Inc. P.O. Box 826 Lake Providence, LA 71254	Terral Secretariat LA495	

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