

*Performance
of Small Grain
Varieties for
Grain in
Alabama,
2005*

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*Information contained herein is available to all without regard to
race, color, sex, or national origin.*

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THE 2004 ALABAMA PERFORMANCE COMPARISON OF SMALL GRAIN VARIETIES

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INTRODUCTION

The large number of commercially available varieties of wheat, oat, rye, barley, and triticale makes it difficult for growers to select varieties most suited for their particular area of the State. Making this decision requires up-to-date, unbiased, reliable information on varietal yields and characteristics. This report is published annually to provide Alabama growers with this information.

Entries in each experiment are determined by the companies or institutes which control each variety or line, not by experiment station personnel. Data from tests conducted at eight locations were used to compile this report and they represent the varied growing conditions farmers experience around the State.

PROCEDURE

The experimental design for the tests was a split plot design with species as the main plot and varieties as subplots. Plots were 5 feet by 20 feet with rows spaced 7 inches apart. A cone drill was used to plant all tests in the State. Each variety was replicated three times in each test.

The trials were divided into two management systems: grain only and forage only.

Grain only: These tests are normally planted during late October to early November, which is approximately one month later than the forage tests. Planting dates for all tests in 2003 are shown in Table 1. All tests were fertilized with P and K according to soil test, plus 20 pounds N per acre at planting. A top dressing of 60 pounds N per acre was made in late February or early March, just prior to jointing. The plots were not sprayed to control disease, so that the varieties could be rated for their inherent disease resistance. The grain was allowed to mature and was harvested with a plot combine, then cleaned and weighed. Moisture and bushel test weight were measured.

Forage only: These tests are normally planted in late September to early October. Tests were fertilized at planting with 100 pounds N per acre and clipped with a flail-type mower each time they reached 6 inches in height. A sample was weighed green from each plot, then dried and reweighed. The percent dry matter figure from these weights was used to calculate forage dry matter per acre. The test was top dressed in February with 60 pounds N per acre and clipping was continued until no regrowth occurred. This data is reported in Dept. Series No. 268, Performance of Small Grain Varieties for Forage in Alabama, 2004-05.

DATA EXPLANATION

Grain yields were calculated by weighing air-dried grain and using 60 pounds per bushel for wheat, 32 pounds per bushel for oat, 48 pounds per bushel for barley, 50 pounds per bushel for triticale, and 56 pounds per bushel for rye.

Lodging was measured as the percent of plants in the stand broken or leaning that would likely be missed by a combine. Height was measured from the ground to the top of the grain head.

The 1/10 headed date is the date when approximately 10 percent of a plot showed fully emerged heads.

Disease ratings for all 2004-2005 variety tests are summarized by region in Tables 13 - 20. Katherine B. Burch, Research Associate, Department of Entomology and Plant Pathology, rated disease at all locations. Disease onset on wheat was earlier than in previous years. At the time of mid-season ratings on wheat, incidence of leaf rust, leaf blotch, and powdery mildew were moderately higher across the state than in 2004. Highest incidence and severity of powdery mildew were observed at Sand Mountain Research and Extension Center. Both Incidence and severity of stripe rust were substantially higher on most entries across the state than observed in 2004. On oats, *Helminthosporium* leaf spot and crown rust were observed across the state and incidence was moderately higher than last year. On triticale, low levels leaf blotch and rust were detected at most locations. On barley, spot blotch and scald developed at low levels. Symptoms of the viral disease barley yellow dwarf were observed in most grain entries throughout the state at levels similar to those of last year.

DISCUSSION

Growing conditions and variety performance often vary among locations and years. In the 2002-03 growing season, most plantings were delayed due to wet soil conditions. In the 2003-04 growing season most plantings were on time. Harvest was delayed at Crossville due to wet conditions. In the 2004-05 growing season, most plantings were delayed due to wet soil conditions. Marion Junction was not planted due to excessive moisture.

TABLE 1. LOCATION, PLANTING AND HARVESTING DATES FOR THE 2004-05 SMALL GRAIN TESTS

Location	Date planted	Date harvested
<u>Northern Alabama</u>		
Tennessee Valley Res. & Ext. Ctr. (Belle Mina)		
Small grain-forage only	November 9	
Small grain-grain only	November 9	June 20
Sand Mountain Res. & Ext. Ctr. (Crossville)		
Small grain-forage only	October 29	
Small grain-grain only	November 17	June 14
<u>Central Alabama</u>		
Black Belt Res. & Ext. Ctr. (Marion Junction)		
Small grain-forage only	Not planted	
Small grain-grain only	Not planted	
E.V. Smith Res. Ctr., Plant Breeding Unit (Tallassee)		
Small grain-forage only	October 21	
Small grain-grain only	November 10	June 8
Prattville Experiment Field (Prattville)		
Small grain-forage only	October 27	
Small grain-grain only	December 16	June 21
<u>Southern Alabama</u>		
Wiregrass Res. & Ext. Ctr. (Headland)		
Small grain-forage only	October 14	
Small grain-grain only	November 18	June 15
Brewton Experiment Field (Brewton)		
Small grain-forage only	October 28	
Small grain-grain only	December 21	June 9
Gulf Coast Res. & Ext. Ctr. (Fairhope)		
Small grain-forage only	October 20	
Small grain-grain only	November 17	June 3

TABLE 2. NORTH ALABAMA REGIONAL AVERAGES OF SMALL GRAIN VARIETY PERFORMANCE

Brand-Variety	2005		2004+05	2002+04+05
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
Wheat				
USG 3209	57.7	111	104	90
Pioneer 26R24	57.3	97	98	90
Tribute	60.8	95	92	84
Coker 9184	57.8	89	89	81
Jackson	58.0	90	87	81
SS 520	57.2	88	86	80
McCormick	58.5	87	88	79
SS 535	58.0	77	83	79
SS 550	56.7	79	80	75
Pat	58.3	76	78	73
Pioneer 26R58	56.1	95	92	---
McIntosh	58.5	96	91	---
USG 3592	58.9	92	91	---
Pioneer 26R15	56.9	88	89	---
Pioneer 26R12	58.7	90	88	---
SS Exp 240438	59.5	94	---	---
GA 951079-2E31	58.4	92	---	---
NK B980582	60.1	90	---	---
GA Gore	56.4	90	---	---
Coker 9312	57.4	90	---	---
SS 8308	57.8	89	---	---
GA 951216-2E26	58.6	87	---	---
SS 8302	57.3	84	---	---
SS MPV 57	57.5	81	---	---
Oat				
Harrison	35.9	73	90.3	---
SC 961246	33.5	73	---	---
Barley				
Thoroughbred	45	92	102	94
Price	46	107	106	93
Nomini	44	84	98	90
Callao	45	95	95	88
Doyce	55	98	96	---
Triticale				
Trical 314	47.8	117	101	88
RSI 342	48.0	128	123	---
Test Mean	---	91	---	---
LSD(0.10)	---	17	---	---
C.V. (%)	---	16	---	---

Multiyear averages are based on 2005, 2004, and 2002 crop years because of crop failure at Crossville in 2003.

TABLE 3. TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER SMALL GRAIN VARIETY TRIAL, BELLE MINA.

Brand-Variety	2005		2004-05	2003-05
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Wheat				
USG 3592	58.3	102	92	81
Pioneer 26R24	58.5	102	93	80
USG 3209	57.7	103	94	78
Pioneer 26R58	56.8	98	90	78
Pioneer 26R12	59.2	96	86	77
Jackson	57.9	97	89	77
Tribute	60.3	92	86	74
SS 535	58.8	92	84	73
Coker 9184	59.2	92	85	72
McCormick	58.4	86	83	72
SS 520	56.5	86	77	71
Pat	57.7	82	76	69
SS 550	56.0	88	79	68
McIntosh	59.1	107	87	---
Pioneer 26R15	56.3	88	84	---
GA 951216-2E26	58.7	96	---	---
GA Gore	56.7	96	---	---
SS Exp 240438	58.9	93	---	---
SS 8302	57.6	93	---	---
Coker 9312	57.0	93	---	---
GA 951079-2E31	58.3	92	---	---
NK B980582	59.7	90	---	---
SS 8308	57.3	83	---	---
SS MPV 57	56.9	82	---	---
Oat				
Harrison	35.7	93	106	---
SC 961246	33.7	84	---	---
Barley				
Price	44.6	118	117	103
Callao	43.2	110	107	97
Thoroughbred	41.3	79	100	97
Doyce	50.2	109	108	97
Nomini	42.9	93	104	92
Triticale				
Trical 314	46.2	107	101	93
RSI 342	46.0	140	129	---
Test Mean	---	96	---	---
LSD(0.10)	---	12	---	---
C.V. (%)	---	10	---	---

TABLE 4. SAND MOUNTAIN RESEARCH AND EXTENSION CENTER SMALL GRAIN VARIETY TRIAL, CROSSVILLE.

Brand-Variety	2005		2004+05	2002+04+05
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Wheat				
USG 3209	57.6	119	113	97
Pioneer 26R24	56.0	91	103	93
Tribute	61.3	97	98	89
SS 520	57.8	91	95	87
Coker 9184	56.3	85	93	86
McCormick	58.6	88	93	84
SS 535	57.2	61	81	80
Jackson	58.1	83	84	79
SS 550	57.3	70	82	78
Pat	58.8	70	79	74
McIntosh	57.9	84	95	---
Pioneer 26R58	55.3	92	95	---
Pioneer 26R15	57.5	89	94	---
Pioneer 26R12	58.1	83	91	---
USG 3592	59.5	83	89	---
SS 8308	58.2	95	---	---
SS Exp 240438	60.0	94	---	---
GA 951079-2E31	58.5	91	---	---
NK B980582	60.4	90	---	---
Coker 9312	57.7	86	---	---
GA Gore	56.0	84	---	---
SS MPV 57	58.0	80	---	---
GA 951216-2E26	58.5	77	---	---
SS 8302	56.9	76	---	---
Out				
Harrison	36.1	53	74	---
SC 961246	33.3	62	---	---
Barley				
Thoroughbred	48.1	105	104	95
Nomini	44.3	75	93	89
Price	47.1	97	96	88
Callao	46.3	80	82	84
Doyce	58.8	88	85	---
Triticale				
Trical 314	49.3	126	101	86
RSI 342	49.9	117	118	---
Test Mean	---	87	---	---
LSD(0.10)	---	13	---	---
C.V. (%)	---	13	---	---

Multiyear averages are based on 2005, 2004, and 2002 crop years because of crop failure at Crossville in 2003.

TABLE 5. CENTRAL ALABAMA REGIONAL AVERAGES OF SMALL GRAIN VARIETY PERFORMANCE

Brand-Variety	2005		2004-05	2003-05
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Wheat				
USG 3209	53.6	59	78	68
Tribute	55.9	55	76	66
USG 3592	55.3	58	73	64
McCormick	54.2	47	67	62
Jackson	51.5	34	56	53
McIntosh	55.6	53	71	---
GA 951216-2E26	56.1	51	---	---
GA Gore	54.1	49	---	---
GA 951079-2E31	56.2	47	---	---
Oat				
Harrison	33.9	42	62	---
Triticale				
Trical 314	43.3	61	82	67
RSI 342	45.9	81	97	---
Test Mean	---	53	---	---
LSD(0.10)	---	33	---	---
C.V. (%)	---	50	---	---

TABLE 6. PRATTVILLE EXPERIMENT FIELD SMALL GRAIN VARIETY TRIAL, PRATTVILLE.

Brand-Variety	2004		2003-04	2002-04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
Wheat				
Tribute	55.6	37	59	62
USG 3592	54.9	38	58	59
USG 3209	52.4	31	56	55
McCormick	53.8	20	51	53
Jackson	50.3	11	40	45
McIntosh	56.0	28	53	---
GA Gore	54.2	31	---	---
GA 951216-2E26	55.9	27	---	---
GA 951079-2E31	56.5	16	---	---
Oat				
Harrison	34.5	38	35	---
Triticale				
Trical 314	45.2	53	77	73
RSI 342	45.7	54	72	---
Test Mean	---	32	---	---
LSD(0.10)	---	13	---	---
C.V. (%)	---	33	---	---

TABLE 7. E.V. SMITH RESEARCH CENTER SMALL GRAIN VARIETY TRIAL, PLANT BREEDING UNIT, TALLASSEE.

Brand-Variety	2005		2004-05	2003-05
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Wheat				
USG 3209	54.7	88	110	96
McCormick	54.5	73	93	85
Tribute	56.1	73	100	85
USG 3592	55.7	79	99	85
Jackson	52.6	58	82	76
McIntosh	55.1	77	98	---
GA 951079-2E31	55.9	78	---	---
GA 951216-2E26	56.2	74	---	---
GA Gore	53.9	67	---	---
Oat				
Harrison	33.3	46	85	---
Triticale				
Trical 314	41.4	69	116	85
RSI 342	46.0	108	143	---
Test Mean	---	74	---	---
LSD(0.10)	---	8	---	---
C.V. (%)	---	8	---	---

**TABLE 8. BLACK BELT RESEARCH AND EXTENSION CENTER SMALL GRAIN VARIETY TRIAL,
MARION JUNCTION.**

Trial not not seeded due to excessive soil moisture in autumn 2004.

TABLE 9. SOUTH ALABAMA REGIONAL AVERAGES OF SMALL GRAIN VARIETY PERFORMANCE

Brand-Variety	2005		2004-05	2003-05
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Wheat				
Pioneer 26R61	53.8	52	59	59
USG 3592	53.7	46	53	57
USG 3209	52.4	37	53	57
McCormick	54.3	50	53	53
Tribute	55.2	38	47	50
Jackson	53.2	23	32	40
McIntosh	54.0	43	50	---
GA Gore	53.1	50	---	---
GA 951079-2E31	54.2	47	---	---
Pioneer 26R12	54.1	46	---	---
GA 951216-2E26	54.9	34	---	---
Oat				
Horizon 474	35.2	66	59	58
Harrison	32.0	53	55	---
Florida 501	31.1	70	---	---
Horizon 321	36.5	53	---	---
Triticale				
Trical 314	48.9	72	75	71
RSI 342	50.3	86	83	---
Test Mean	---	51	---	---
LSD(0.10)	---	26	---	---
C.V. (%)	---	41	---	---

TABLE 10. WIREGRASS RESEARCH AND EXTENSION CENTER SMALL GRAIN VARIETY TRIAL, HEADLAND.

Brand-Variety	2004		2003-04	2002-04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Wheat				
Pioneer 26R61	53.2	68	65	68
USG 3592	55.6	67	59	67
USG 3209	52.4	49	53	61
Tribute	55.9	62	56	58
McCormick	54.4	62	56	57
Jackson	---	0	14	30
McIntosh	56.1	63	60	---
GA 951079-2E31	56.6	68	---	---
GA Gore	51.0	59	---	---
Pioneer 26R12	54.2	53	---	---
GA 951216-2E26	56.0	44	---	---
Oat				
Horizon 474	35.2	88	69	78
Harrison	32.0	58	53	---
Horizon 321	36.5	75	---	---
Florida 501	31.1	70	---	---
Triticale				
Trical 314	55.2	70	77	71
RSI 342	56.8	94	84	---
Rye				
Wren's Abruzzi AL	---	25	---	---
AGS 104	---	21	---	---
Elbon	---	18	---	---
Wintergrazer 70	---	17	---	---
Bates	---	11	---	---
Test Mean	---	52	---	---
LSD(0.10)	---	7	---	---
C.V. (%)	---	12	---	---

TABLE 11. BREWTON EXPERIMENT FIELD SMALL GRAIN VARIETY TRIAL, BREWTON.

Brand-Variety	2004		2003-04	2002-04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Wheat				
Pioneer 26R61	---	45	59	54
McCormick	---	42	56	53
USG 3592	---	39	53	52
USG 3209	---	30	50	49
Jackson	---	34	43	44
Tribute	---	5	37	40
McIntosh	---	32	41	---
Pioneer 26R12	---	41	---	---
GA Gore	---	41	---	---
GA 951079-2E31	---	40	---	---
GA 951216-2E26	---	24	---	---
Oat				
Horizon 474	---	83	68	59
Harrison	---	76	74	---
Horizon 321	---	68	---	---
Triticale				
Trical 314	---	89	79	69
RSI 342	---	93	88	---
Test Mean	---	49	---	---
LSD(0.10)	---	22	---	---
C.V. (%)	---	36	---	---

TABLE 12. GULF COAST RESEARCH AND EXTENSION CENTER SMALL GRAIN VARIETY TRIAL, FAIRHOPE.

Brand-Variety	2004		2003-04	2002-04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
<i>Wheat</i>				
USG 3209	52.4	32	55	59
Pioneer 26R61	54.3	44	52	57
USG 3592	51.7	32	47	53
Tribute	54.5	48	46	53
McCormick	54.1	45	46	50
Jackson	53.2	36	40	47
McIntosh	51.9	34	48	---
GA Gore	55.1	51	---	---
Pioneer 26R12	53.9	44	---	---
GA 951079-2E31	51.7	33	---	---
GA 951216-2E26	53.8	33	---	---
<i>Oat</i>				
Horizon 474	---	26	42	37
Harrison	---	26	39	---
Horizon 321	---	15	---	---
<i>Triticale</i>				
Trical 314	42.6	57	70	73
RSI 342	43.8	71	79	---
<i>Test Mean</i>	---	39	---	---
<i>LSD(0.10)</i>	---	19	---	---
<i>C.V. (%)</i>	---	38	---	---

TABLE 13. BARLEY YELLOW DWARF RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2004-2005. THE NUMBERS GIVEN REPRESENT THE PERCENT OF SYMPTOMATIC PLANTS.

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
Coker 9184	41.7	-	-
Coker 9312	48.3	-	-
GA 951079-2E31	40.0	20.0	49.4
GA 951216-2E26	43.3	12.5	47.2
GA Gore	55.8	34.2	53.3
Jackson	39.2	30.8	51.7
McCormick	34.2	10.8	48.9
McIntosh	20.8	5.8	63.3
NK B980582	27.5	-	-
Pat	12.5	-	-
Pioneer 26R12	27.5	-	41.7
Pioneer 26R15	60.8	-	-
Pioneer 26R24	44.2	-	-
Pioneer 26R58	61.7	-	-
Pioneer 26R61	-	-	55.0
SS 520	49.2	-	-
SS 535	35.8	-	-
SS 550	37.5	-	-
SS 8302	28.3	-	-
SS 8308	35.8	-	-
SS Exp 240438	27.5	-	-
SS MPV 57	61.7	-	-
Tribute	51.7	12.5	51.1
USG 3209	25.2	7.5	50.0
USG 3592	35.8	6.7	48.9

TABLE 14. LEAF RUST RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2004-2005. PLOT WERE EVALUATED ON A 0 - 10 SCALE, WHERE 0 = NO DISEASE AND 10= SEVERE DISEASE

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
Coker 9184	2.5	-	-
Coker 9312	1.7	-	-
GA 951079-2E31	1.0	0.0	2.8
GA 951216-2E26	0.5	1.0	4.3
GA Gore	1.8	5.0	4.1
Jackson	3.3	7.0	4.8
McCormick	3.0	3.8	4.1
McIntosh	2.8	3.2	4.9
NK B980582	2.0	-	-
Pat	3.5	-	-
Pioneer 26R12	2.5	-	5.2
Pioneer 26R15	1.2	-	-
Pioneer 26R24	2.3	-	-
Pioneer 26R58	1.5	-	-
Pioneer 26R61	-	-	4.1
SS 520	3.5	-	-
SS 535	2.2	-	-
SS 550	2.2	-	-
SS 8302	3.3	-	-
SS 8308	4.2	-	-
SS Exp 240438	2.2	-	-
SS MPV 57	3.2	-	-
Tribute	2.0	1.5	6.2
USG 3209	2.5	4.0	5.4
USG 3592	2.3	0.5	3.3

TABLE 15. SEPTORIA LEAF BLOTCH RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2004-2005. PLOT WERE EVALUATED ON A 0 - 10 SCALE, WHERE 0 = NO DISEASE AND 10= SEVERE DISEASE.

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
Coker 9184	3.0	-	-
Coker 9312	2.8	-	-
GA 951079-2E31	3.0	2.8	2.6
GA 951216-2E26	3.5	2.2	2.8
GA Gore	3.0	2.2	3.1
Jackson	3.0	2.2	2.4
McCormick	2.7	1.3	2.7
McIntosh	3.3	2.3	2.4
NK B980582	2.8	-	-
Pat	2.7	-	-
Pioneer 26R12	2.7	-	2.4
Pioneer 26R15	3.2	-	-
Pioneer 26R24	3.0	-	-
Pioneer 26R58	2.7	-	-
Pioneer 26R61	-	-	3.2
SS 520	3.3	-	-
SS 535	2.8	-	-
SS 550	2.5	-	-
SS 8302	3.0	-	-
SS 8308	2.7	-	-
SS Exp 240438	3.3	-	-
SS MPV 57	2.7	-	-
Tribute	2.8	2.0	2.6
USG 3209	2.8	2.2	3.0
USG 3592	3.3	2.3	3.2

TABLE 16. STRIPE RUST RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2004-2005. PLOT WERE EVALUATED ON A 0 - 10 SCALE, WHERE 0 = NO DISEASE AND 10= SEVERE DISEASE.

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
Coker 9184	4.3	-	-
Coker 9312	5.2	-	-
GA 951079-2E31	0.3	0.0	0.6
GA 951216-2E26	0.0	0.0	0.6
GA Gore	1.8	1.2	1.3
Jackson	4.2	1.8	0.3
McCormick	1.3	1.3	1.7
McIntosh	0.3	0.3	0.7
NK B980582	3.0	-	-
Pat	1.0	-	-
Pioneer 26R12	3.5	-	1.6
Pioneer 26R15	2.3	-	-
Pioneer 26R24	4.8	-	-
Pioneer 26R58	2.7	-	-
Pioneer 26R61	-	-	0.3
SS 520	3.7	-	-
SS 535	3.7	-	-
SS 550	5.0	-	-
SS 8302	0.0	-	-
SS 8308	1.0	-	-
SS Exp 240438	4.6	-	-
SS MPV 57	4.3	-	-
Tribute	4.3	4.7	2.1
USG 3209	1.7	3.0	0.8
USG 3592	3.8	2.8	1.2

TABLE 17. POWDERY MILDEW RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2004-2005. PLOT WERE EVALUATED ON A 0 - 10 SCALE, WHERE 0 = NO DISEASE AND 10= SEVERE DISEASE.

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
Coker 9184	1.7	-	-
Coker 9312	3.0	-	-
GA 951079-2E31	0.5	0.0	0.3
GA 951216-2E26	2.5	0.5	0.7
GA Gore	1.3	0.0	0.6
Jackson	2.7	0.0	0.6
McCormick	0.0	0.0	0.7
McIntosh	2.3	0.0	0.7
NK B980582	1.7	-	-
Pat	3.2	-	-
Pioneer 26R12	1.7	-	0.0
Pioneer 26R15	0.9	-	-
Pioneer 26R24	1.3	-	-
Pioneer 26R58	1.2	-	-
Pioneer 26R61	-	-	0.3
SS 520	1.2	-	-
SS 535	1.3	-	-
SS 550	1.0	-	-
SS 8302	2.2	-	-
SS 8308	1.3	-	-
SS Exp 240438	2.2	-	-
SS MPV 57	1.3	-	-
Tribute	0.0	0.0	0.6
USG 3209	1.3	0.0	0.4
USG 3592	1.8	0.0	0.4

TABLE 18. DISEASE RATINGS FOR OAT VARIETIES IN ALABAMA, 2004-2005.

Brand-variety	Helminthosporium leaf spot ¹	Crown rust ¹	Barley yellow dwarf ²
Northern Alabama			
Harrison	0.8	0.3	42.5
SC 961246	0.7	0.3	30.8
Central Alabama			
Harrison	1.4	0.3	15.5
Southern Alabama			
Harrison	3.3	3.1	41.7
Horizon 321	2.6	2.4	33.3
Horizon 474	1.9	2.3	27.8

¹0-10 scale: 0 = no disease, 10 = severe disease.

²Percent symptomatic plants.

TABLE 19. DISEASE RATINGS FOR BARLEY VARIETIES IN NORTHERN ALABAMA, 2004-2005.

Brand-variety	Barley scald ¹	Spot blotch ¹	Barley yellow dwarf ²
Callao	0.7	3.2	58.3
Doyce	1.2	2.8	39.2
Nomini	0.7	2.0	25.0
Price	0.3	2.5	41.7
Thoroughbred	0.7	2.8	33.3

¹0-10 scale: 0 = no disease, 10 = severe disease.

²Percent plants affected.

TABLE 20. DISEASE RATINGS FOR TRITICALE VARIETIES IN ALABAMA, 2004-2005

Brand-variety	Leaf blotch ¹ rust ¹	Leaf	Barley yellow dwarf ²
Northern Alabama			
RSI 342	3.2	1.3	35.8
Trical 314	3.0	0.0	27.5
Central Alabama			
RSI 342	3.7	0.0	20.0
Trical 314	3.3	0.7	25.8
Southern Alabama			
RSI 342	4.1	2.2	57.2
Trical 314	4.2	0.8	67.8

¹0-10 scale: 0 = no disease, 10 = severe disease

²Percent plants affected.

SOURCES OF SEED**WHEAT**

GA Gore, Jackson	Alabama Crop Improvement Assn., Auburn, Alabama
Pat	University of Arkansas Fayetteville, Arkansas
UGA 951079-2E31*, UGA 951216-2E26*	Univ. of Georgia, Georgia Station Griffin, Georgia
Coker (all NK varieties, brands, and hybrids)	Syngenta Seeds Bay, Arkansas
Pioneer (all varieties, brands, and hybrids)	Pioneer, A DuPont Company Huntsville, Alabama
McCormick	Virginia Polytechnic Inst. Blacksburg, Virginia
Croplan Genetics 514W, Croplan Genetics 8301,	Croplan Genetics Midland City, Alabama
SS-520, SS-535, SS-550, SS-560 SS 8302, SS 8308, SS MPV57, SS 240438	Southern States Coop. Richmond, Virginia
USG 3209 USG 3592	UniSouth Genetics, Inc. Nashville, Tennessee
Tribute, McIntosh (formerly GA 931233E17)	Royster-Clark, Inc. Washington C.H., Ohio

SOURCES OF SEED (CONT.)**BARLEY**

Callao, Nomini, Price
Thoroughbred, Doyce

Virginia Polytechnic Inst.
Blacksburg, Virginia

TRITICALE

Trical 314, RSI 342

Resource Seeds, Inc.
Union, Kentucky

OAT

Horizon 321, Horizon 474

Univ. of Florida, Agric. Res. Ctr.
Quincy, Florida

Harrison

Arkansas County Seed
Stuttgart, Arkansas

Fla. 501

Alabama crop Improvement Assn.,
Auburn, Alabama

SC 961246*

Clemson University
Clemson, South Carolina

SS 76-40

Southern States Coop.,
Richmond, Virginia

* Experimental line; not yet commercially available.