

*Performance
of Small Grain
Varieties for
Grain in
Alabama,
2005-06*

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TABLE OF CONTENTS

ACKNOWLEDGEMENTS.....	3
INTRODUCTION	4
PROCEDURE	4
DATA EXPLANATION	4
DISCUSSION.....	5
Planting and harvesting dates	6
North Alabama Regional Averages	7
Tennessee Valley Research and Extension Center, Belle Mina	9
Sand Mountain Research and Extension Center, Crossville	11
Central Alabama Regional Averages	13
Prattville Experiment Field, Prattville	14
E.V. Smith Research Center, Plant Breeding Unit, Tallassee	15
Black Belt Research and Extension Center, Marion Junction	16
South Alabama Regional Averages.....	17
Wiregrass Research and Extension Center, Headland	18
Brewton Experiment Field, Brewton	19
Gulf Coast Research and Extension Center, Fairhope.	20
Disease ratings for Wheat	21
Disease ratings for Oat	26
Disease ratings for Triticale	26
Disease ratings for Barley	26
SEED SOURCES	27

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THE 2006 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 2005 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. 276, Performance of Small Grain Varieties for Forage in Alabama, 2005-06.

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.

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 2005-2006 variety tests are summarized by region in Tables 13 - 19. Katherine B. Burch, Research Associate, Department of Entomology and Plant Pathology, rated disease at all locations. Disease onset on wheat was later than last year. At the time of mid-season ratings on wheat, incidence of leaf rust, stripe rust, Septoria leaf blotch, and powdery mildew were moderately lower across the state than in 2005. Powdery mildew was only found at Sand Mountain Research and Extension Center and Tallassee Plant Breeding Unit. Tennessee Valley Research and Extension Center was the only location where stripe rust was detected. On oats, disease was reduced from last year. Helminthosporium leaf spot was observed at low levels across the state. Oat stem rust was only found on one variety at Brewton Experiment field. Crown rust was detected at low levels at four locations. On triticale, low levels leaf blotch were detected at most locations. On barley, spot blotch and net blotch developed at low levels. Symptoms of the viral disease barley yellow dwarf were observed in most grain entries throughout the state at levels slightly lower than those of last year.

DISCUSSION

Growing conditions and variety performance often vary among locations and years. In the 2005-06 growing season, some plantings were delayed due to dry soil conditions.

TABLE 1. LOCATION, PLANTING AND HARVESTING DATES FOR THE 2005-06 SMALL GRAIN TESTS

Location	Date planted	Date harvested
----------	--------------	----------------

Northern Alabama

Tennessee Valley Res. & Ext. Ctr. (Belle Mina)

Small grain - forage only	October 17	
Small grain - grain only	November 4	June 15

Sand Mountain Res. & Ext. Ctr. (Crossville)

Small grain - forage only	September 10	
Small grain - grain only	November 26	June 7

Central Alabama

Black Belt Res. & Ext. Ctr. (Marion Junction)

Small grain - forage only	October 17	
Small grain - grain only	October 17	May 26

E.V. Smith Res. Ctr., Plant Breeding Unit (Tallassee)

Small grain - forage only	October 19	
Small grain - grain only	November 3	May 12 & June 1

Prattville Research Field (Prattville)

Small grain - forage only	November 18	
Small grain - grain only	November 18	June 6

Southern Alabama

Wiregrass Res. & Ext. Ctr. (Headland)

Small grain - forage only	October 20	
Small grain - grain only	November 15	June 5

Brewton Research Field (Brewton)

Small grain - forage only	November 3	
Small grain - grain only	November 3	June 7

Gulf Coast Res. & Ext. Ctr. (Fairhope)

Small grain - forage only	November 4	
Small grain - grain only	November 7	May 23

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

Brand-Variety	2006		2005-2006	2004-2006
	Test wt lbs/bu	Avg. Yield ----- bu/acre -----	Avg. Yield	Avg. Yield
<i>Wheat</i>				
USG 3209	57.9	67	89	91
Pioneer 26R24	57.4	70	83	88
USG 3592	58.1	69	81	83
Coker 9184	57.9	63	76	80
McIntosh	57.4	56	76	79
SS 520	56.2	63	76	79
SS 535	57.6	68	73	78
SS 8404	60.1	69	81	.
Coker 9511	59.1	66	78	.
SS 8302	56.8	70	77	.
SS 8308	58.6	62	75	.
GA 951079-2E31	58.2	58	75	.
GA Gore	56.6	58	74	.
GA 951216-2E26	57.7	59	73	.
SS MPV 57	56.1	64	73	.
Pioneer 26R22	56.2	73	.	.
GA 951395-3E25	58.7	71	.	.
AGS 2000	58.9	71	.	.
Coker 9436	56.0	70	.	.
GA 951395-3A31	59.3	64	.	.
Vigoro Dominion	56.7	63	.	.
GA 96229-3A41	55.9	62	.	.
Pioneer XW04C	61.0	62	.	.
Coker 9553	58.8	59	.	.
GA 96229-3E39	57.6	58	.	.
AGS 2010	59.4	56	.	.

TABLE 2. CONTINUED

Brand-Variety	2006		2005-2006	2004-2006
	Test wt	Avg. Yield	Avg. Yield	Avg. Yield
	lbs/bu	----- bu/acre -----		
Oat				
LA 99016SBSB-98	34.1	124	.	.
LA 97006GBS-22-B-S2	35.7	124	.	.
AR 0258-7	36.6	114	.	.
SS 76-40	34.5	112	.	.
LA 981DSBS-58	36.2	106	.	.
Florida 501	34.6	102	.	.
Barley				
Price	42.7	76	92	96
Thoroughbred	44.7	73	82	92
Doyce	52.8	73	86	89
VA 01H-68	46.8	60	.	.
Triticale				
RSI 342	51.8	83	106	110
Trical 314	52.1	85	101	96
Test Mean	.	74	81	89
LSD(0.10)	.	8	12	12
C.V. (%)	.	9	13	13

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

Brand-Variety	2006		2005-2006	2004-2006
	Test wt lbs/bu	Avg. Yield ----- bu/acre -----	Avg. Yield	Avg. Yield
<i>Wheat</i>				
USG 3209	56.7	66	84	84
Pioneer 26R24	55.5	59	81	82
USG 3592	56.6	60	81	81
SS 535	56.9	65	79	78
McIntosh	55.9	53	80	76
Coker 9184	58.1	55	74	75
SS 520	54.0	57	72	70
SS 8302	56.4	69	81	.
SS 8404	58.1	65	79	.
GA 951216-2E26	57.0	57	77	.
Coker 9511	57.2	61	76	.
SS MPV 57	55.1	65	74	.
GA Gore	54.5	49	73	.
GA 951079-2E31	56.3	51	72	.
SS 8308	56.5	57	70	.
Pioneer 26R22	54.6	75	.	.
AGS 2000	57.5	64	.	.
GA 951395-3A31	57.9	62	.	.
GA 951395-3E25	57.1	60	.	.
Vigoro Dominion	55.3	60	.	.
Pioneer XW04C	58.3	59	.	.
Coker 9436	54.3	58	.	.
GA 96229-3A41	55.1	57	.	.
GA 96229-3E39	56.8	54	.	.
Coker 9553	57.5	54	.	.
AGS 2010	58.1	52	.	.

TABLE 3. CONTINUED

Brand-Variety	2006		2005-2006	2004-2006
	Test wt	Avg. Yield	Avg. Yield	Avg. Yield
	lbs/bu	----- bu/acre -----		
<i>Oat</i>				
LA 99016SBSB-98	33.0	117	.	.
LA 97006GBS-22-B-S2	34.5	111	.	.
SS 76-40	34.0	102	.	.
LA 981DSBS-58	34.9	97	.	.
AR 0258-7	35.0	96	.	.
Florida 501	33.1	91	.	.
<i>Barley</i>				
Price	40.4	76	97	104
Doyce	51.8	78	93	98
Thoroughbred	43.8	68	74	89
VA 01H-68	35.6	53	.	.
<i>Triticale</i>				
RSI 342	52.7	76	108	111
Trical 314	51.6	82	95	95
<i>Test Mean</i>	.	68	81	87
<i>LSD(0.10)</i>	.	6	10	11
<i>C.V. (%)</i>	.	8	12	12

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

Brand-Variety	2006		2005-2006	2004-2006
	Test wt lbs/bu	Avg. Yield -----	Avg. Yield bu/acre -----	Avg. Yield -----
<i>Wheat</i>				
USG 3209	59.1	68	94	98
Pioneer 26R24	59.4	80	85	95
SS 520	58.4	69	80	87
Coker 9184	57.7	71	78	86
USG 3592	59.7	79	81	86
McIntosh	59.0	59	72	83
SS 535	58.3	72	67	78
SS 8404	62.2	73	83	.
SS 8308	60.8	67	81	.
Coker 9511	61.0	70	80	.
GA 951079-2E31	60.2	65	78	.
GA Gore	58.7	67	75	.
SS 8302	57.3	70	73	.
SS MPV 57	57.1	63	72	.
GA 951216-2E26	58.5	60	68	.
GA 951395-3E25	60.3	82	.	.
Coker 9436	57.7	81	.	.
AGS 2000	60.3	78	.	.
Pioneer 26R22	57.9	71	.	.
GA 96229-3A41	56.7	67	.	.
Vigoro Dominion	58.1	67	.	.
Pioneer XW04C	63.7	65	.	.
GA 951395-3A31	60.8	65	.	.
Coker 9553	60.2	64	.	.
GA 96229-3E39	58.4	63	.	.
AGS 2010	60.7	61	.	.

TABLE 4. CONTINUED

Brand-Variety	2006		2005-2006	2004-2006
	Test wt	Avg. Yield	Avg. Yield	Avg. Yield
	lbs/bu	-----	bu/acre	-----
LA 97006GBS-22-B-S2	36.9	138	.	.
AR 0258-7	38.3	133	.	.
LA 99016SBSB-98	35.1	132	.	.
SS 76-40	35.0	123	.	.
LA 981DSBS-58	37.6	115	.	.
Florida 501	36.1	113	.	.
Barley				
Thoroughbred	45.6	77	91	95
Price	45.0	76	87	89
Doyce	53.8	68	78	79
VA 01H-68	58.1	68	.	.
Triticale				
RSI 342	51.0	89	103	108
Trical 314	52.6	88	107	97
Test Mean	.	79	82	90
LSD(0.10)	.	8	12	13
C.V. (%)	.	9	14	13

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

Brand-Variety	2006		2005-2006	2004-2006
	Test wt lbs/bu	Avg. Yield ----- bu/acre -----	Avg. Yield †	Avg. Yield §
Wheat				
USG 3209	57.7	76	62	72
USG 3592	59.2	78	63	70
McIntosh	59.1	73	58	67
GA 951216-2E26	58.7	71	56	.
GA Gore	56.5	69	54	.
GA 951079-2E31	58.8	67	52	.
GA 951395-3E25	59.0	81	.	.
GA 951395-3A31	58.4	78	.	.
GA 96229-3A41	57.8	75	.	.
GA 96229-3E39	58.4	71	.	.
Oat				
LA 99016SBSB-98	32.5	81	.	.
LA 981DSBS-58	34.4	77	.	.
Florida 501	30.5	68	.	.
LA 97006GBS-22-B-S2	31.7	64	.	.
AR 0258-7	33.2	45	.	.
Triticale				
RSI 342	51.1	88	78	89
Trical 314	51.5	82	67	78
Test Mean	.	73	61	75
LSD(0.10)	.	10	10	12
C.V. (%)	.	13	15	14

† 2-yr means include data from BBS 2004.

§ 3-yr means based on PEF and PBU only.

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

Brand-Variety	2006		2005-2006	2004-2006
	Test wt	Avg. Yield	Avg. Yield	Avg. Yield
	lbs/bu	-----	bu/acre	-----
Wheat				
USG 3592	57.8	82	60	66
USG 3209	56.6	82	57	65
McIntosh	57.8	81	55	62
GA Gore	55.8	81	56	.
GA 951216-2E26	55.6	82	55	.
GA 951079-2E31	57.6	83	50	.
GA 951395-3E25	57.9	99	.	.
GA 951395-3A31	56.8	94	.	.
GA 96229-3A41	56.0	86	.	.
GA 96229-3E39	55.6	78	.	.
Oat				
LA 981DSBS-58	36.4	102	.	.
LA 99016SBSB-98	34.4	97	.	.
Florida 501	35.0	85	.	.
LA 97006GBS-22-B-S2	34.2	75	.	.
AR 0258-7	35.6	51	.	.
Triticale				
Trical 314	49.2	120	86	92
RSI 342	50.8	109	82	84
Test Mean	.	88	62	74
LSD(0.10)	.	10	11	12
C.V. (%)	.	10	16	14

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

Brand-Variety	2006		2005-2006	2004-2006
	Test wt lbs/bu	Avg. Yield ----- bu/acre -----	Avg. Yield	Avg. Yield
Wheat				
USG 3209	57.0	80	84	100
USG 3592	60.3	85	82	94
McIntosh	60.3	74	76	90
GA 951216-2E26	59.9	73	74	.
GA 951079-2E31	59.9	65	72	.
GA Gore	56.5	64	66	.
GA 951395-3E25	60.0	80	.	.
GA 96229-3A41	59.5	76	.	.
GA 96229-3E39	59.5	76	.	.
GA 951395-3A31	59.6	70	.	.
Oat				
LA 99016SBSB-98	30.0	95	.	.
Florida 501	27.0	78	.	.
LA 981DSBS-58	31.9	75	.	.
LA 97006GBS-22-B-S2	28.5	56	.	.
AR 0258-7	30.8	42	.	.
Triticale				
RSI 342	51.3	95	101	127
Trical 314	51.3	81	75	104
Test Mean	.	74	79	103
LSD(0.10)	.	7	9	10
C.V. (%)	.	8	10	9

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

Brand-Variety	2006		2005-2006	2004-2006
	Test wt lbs/bu	Avg. Yield ----- bu/acre -----	Avg. Yield †	Avg. Yield §
Wheat				
USG 3209	59.4	65	70	.
McIntosh	59.3	63	68	.
USG 3592	59.5	68	67	.
GA 951395-3A31	58.9	69	.	.
GA 951395-3E25	59.2	64	.	.
GA Gore	57.1	63	.	.
GA 96229-3A41	57.9	63	.	.
GA 96229-3E39	60.2	57	.	.
GA 951216-2E26	60.5	57	.	.
GA 951079-2E31	59.0	52	.	.
Oat				
LA 97006GBS-22-B-S2	32.5	62	.	.
LA 981DSBS-58	35.0	53	.	.
LA 99016SBSB-98	33.1	50	.	.
Florida 501	29.5	42	.	.
AR 0258-7	33.3	41	.	.
Triticale				
RSI 342	51.2	59	65	.
Trical 314	54.0	45	44	.
Test Mean	.	57	63	.
LSD(0.10)	.	7	7	.
C.V. (%)	.	10	9	.

† 2-yr means include data from BBS 2004.

§ No 3-yr means available because there was no test in 2005.

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

Brand-Variety	2006		2005-2006	2004-2006
	Test wt lbs/bu	Avg. Yield ----- bu/acre -----	Avg. Yield	Avg. Yield
Wheat				
Pioneer 26R61	56.2	59	64	63
McIntosh	56.3	40	52	53
GA 951079-2E31	53.7	49	59	.
GA Gore	52.1	37	48	.
GA 951216-2E26	54.8	51	47	.
AGS 2000	53.1	61	.	.
Fleming	54.1	56	.	.
GA 951395-3A31	54.0	54	.	.
GA 96229-3A41	54.8	50	.	.
GA 96229-3E39	55.5	50	.	.
GA 951395-3E25	52.6	48	.	.
Pioneer XW04C	56.2	42	.	.
Oat				
Florida 501	32.5	36	53	.
LA 981DSBS-58	31.1	51	.	.
LA 97006GBS-22-B-S2	30.1	40	.	.
LA 99016SBSB-98	32.5	29	.	.
Triticale				
RSI 342	47.6	77	85	82
Trical 314	46.9	86	78	80
Test Mean	.	51	61	70
LSD(0.10)	.	7	11	10
C.V. (%)	.	11	17	13

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

Brand-Variety	2006		2005-2006	2004-2006
	Test wt lbs/bu	Avg. Yield ----- bu/acre -----	Avg. Yield	Avg. Yield
Wheat				
Pioneer 26R61	56.2	59	64	63
McIntosh	56.3	40	52	53
GA 951079-2E31	53.7	49	59	.
GA Gore	52.1	37	48	.
GA 951216-2E26	54.8	51	47	.
AGS 2000	53.1	61	.	.
Fleming	54.1	56	.	.
GA 951395-3A31	54.0	54	.	.
GA 96229-3A41	54.8	50	.	.
GA 96229-3E39	55.5	50	.	.
GA 951395-3E25	52.6	48	.	.
Pioneer XW04C	56.2	42	.	.
Oat				
Florida 501	32.5	36	53	.
LA 981DSBS-58	31.1	51	.	.
LA 97006GBS-22-B-S2	30.1	40	.	.
LA 99016SBSB-98	32.5	29	.	.
Triticale				
RSI 342	47.6	77	85	82
Trical 314	46.9	86	78	80
Test Mean	.	51	61	70
LSD(0.10)	.	7	11	10
C.V. (%)	.	11	17	13

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

Brand-Variety	2006		2005-2006	2004-2006
	Test wt lbs/bu	Avg. Yield ----- bu/acre -----	Avg. Yield	Avg. Yield
Wheat				
Pioneer 26R61	55.5	61	53	59
McIntosh	56.3	37	34	39
GA Gore	53.8	45	43	.
GA 951079-2E31	55.2	41	41	.
GA 951216-2E26	54.5	42	33	.
AGS 2000	55.5	64	.	.
Fleming	56.2	49	.	.
GA 951395-3E25	54.0	44	.	.
GA 951395-3A31	54.2	42	.	.
Pioneer XW04C	56.2	40	.	.
GA 96229-3E39	54.8	40	.	.
GA 96229-3A41	54.3	38	.	.
Oat				
LA 981DSBS-58	38.1	80	.	.
Florida 501	34.8	54	.	.
LA 97006GBS-22-B-S2	34.8	48	.	.
LA 99016SBSB-98	35.7	44	.	.
Triticale				
RSI 342	47.7	72	82	82
Trical 314	48.0	70	80	76
Test Mean	.	51	52	64
LSD(0.10)	.	5	14	18
C.V. (%)	.	9	24	25

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

Brand-Variety	2006		2005-2006	2004-2006
	Test wt lbs/bu	Avg. Yield ----- bu/acre -----	Avg. Yield	Avg. Yield
<i>Wheat</i>				
Pioneer 26R61	58.7	68	56	58
McIntosh	58.9	49	41	48
GA Gore	56.8	45	48	.
GA 951079-2E31	59.1	54	44	.
GA 951216-2E26	58.5	49	41	.
AGS 2000	58.1	68	.	.
GA 96229-3E39	58.2	55	.	.
GA 96229-3A41	58.4	55	.	.
Fleming	60.3	53	.	.
Pioneer XW04C	60.8	51	.	.
GA 951395-3A31	58.3	48	.	.
GA 951395-3E25	58.7	42	.	.
<i>Oat</i>				
LA 981DSBS-58	36.1	147	.	.
LA 99016SBSB-98	34.4	122	.	.
LA 97006GBS-22-B-S2	35.0	108	.	.
Florida 501	34.1	107	.	.
<i>Triticale</i>				
RSI 342	53.1	75	73	77
Trical 314	52.8	74	66	71
<i>Test Mean</i>	.	71	53	64
<i>LSD(0.10)</i>	.	8	15	14
<i>C.V. (%)</i>	.	9	25	20

TABLE 13. LEAF BLOTCH RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2005-2006¹

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
AGS 2000	2.7	-	2.6
AGS 2010	2.5	-	-
Coker 9184	2.0	-	-
Coker 9436	2.3	-	-
Coker 9511	2.2	-	-
Coker 9553	2.7	-	-
Fleming	-	-	1.3
GA 951079-2E31	2.3	1.7	1.2
GA 951216-2E26	2.5	1.7	1.8
GA 951395-3A31	2.2	1.7	1.9
GA 951395-3E25	2.0	1.8	1.8
GA 96229-3A41	2.3	1.9	2.1
GA 96229-3E39	2.3	1.6	1.7
GA Gore	2.8	1.9	2.1
Pioneer 26R22	1.8	-	-
Pioneer 26R24	2.7	-	-
Pioneer 26R61	-	-	1.6
Pioneer XW04C	2.8	-	1.6
SS 520	3.3	-	-
SS 535	2.2	-	-
SS 8302	2.5	-	-
SS 8308	3.2	-	-
SS 8404	2.7	-	-
SS MPV 57	2.3	-	-
USG 3209	2.2	2.0	-
USG 3592	2.2	1.8	-
Vigoro Dominion	2.0	-	-
Vigoro McIntosh	2.0	1.6	2.2

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

TABLE 14. BARLEY YELLOW DWARF RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2005-2006¹

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
AGS 2000	30.0	-	67.8
AGS 2010	61.7	-	-
Coker 9184	28.3	-	-
Coker 9436	22.5	-	-
Coker 9511	15.2	-	-
Coker 9553	38.3	-	-
Fleming	-	-	81.7
GA 951079-2E31	55.0	30.0	30.0
GA 951216-2E26	45.0	31.7	52.2
GA 951395-3A31	39.2	23.9	41.1
GA 951395-3E25	38.3	18.1	39.4
GA 96229-3A41	28.3	10.7	35.6
GA 96229-3E39	30.8	23.9	49.4
GA Gore	55.8	35.6	66.7
Pioneer 26R22	13.7	-	-
Pioneer 26R24	21.7	-	-
Pioneer 26R61	-	-	58.3
Pioneer XW04C	45.0	-	66.7
SS 520	63.3	-	-
SS 535	15.8	-	-
SS 8302	25.0	-	-
SS 8308	30.0	-	-
SS 8404	24.2	-	-
SS MPV 57	60.0	-	-
USG 3209	25.0	19.0	-
USG 3592	14.2	15.0	-
Vigoro Dominion	52.5	-	-
Vigoro McIntosh	31.7	19.1	36.7

¹Percent symptomatic plants.

TABLE 15. LEAF RUST RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2005-2006¹

Brand-variety	Northern Alabama	Central Southern Alabama	Alabama
AGS 2000	0.0	-	0.3
AGS 2010	0.0	-	-
Coker 9184	0.5	-	-
Coker 9436	0.5	-	-
Coker 9511	0.0	-	-
Coker 9553	0.0	-	-
Fleming	-	-	0.0
GA 951079-2E31	0.0	0.1	0.0
GA 951216-2E26	0.5	0.0	0.3
GA 951395-3A31	0.0	0.0	0.0
GA 951395-3E25	0.0	0.0	0.3
GA 96229-3A41	0.0	0.0	0.0
GA 96229-3E39	0.0	0.4	0.0
GA Gore	0.0	1.4	0.3
Pioneer 26R22	0.0	-	-
Pioneer 26R24	0.0	-	-
Pioneer 26R61	-	-	1.1
Pioneer XW04C	0.0	-	0.4
SS 520	0.0	-	-
SS 535	0.0	-	-
SS 8302	0.0	-	-
SS 8308	2.5	-	-
SS 8404	0.3	-	-
SS MPV 57	0.0	-	-
USG 3209	0.0	2.6	-
USG 3592	0.3	0.7	-
Vigoro Dominion	0.0	-	-
Vigoro McIntosh	0.0	1.6	0.0

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

TABLE 16. POWDERY MILDEW RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2005-2006¹

Brand-variety	Sand Mountain Res and Ext Center	Tallassee Plant Breeding Unit
AGS 2000	1.0	-
AGS 2010	1.3	-
Coker 9184	1.0	-
Coker 9436	1.3	-
Coker 9511	2.3	-
Coker 9553	0.0	-
Fleming	-	-
GA 951079-2E31	1.0	0.0
GA 951216-2E26	2.0	2.7
GA 951395-3A31	3.0	0.0
GA 951395-3E25	0.0	0.0
GA 96229-3A41	0.0	0.0
GA 96229-3E39	0.0	0.0
GA Gore	2.3	0.0
Pioneer 26R22	2.0	-
Pioneer 26R24	2.7	-
Pioneer 26R61	-	-
Pioneer XW04C	0.0	-
SS 520	0.7	-
SS 535	0.0	-
SS 8302	2.7	-
SS 8308	1.3	-
SS 8404	2.3	-
SS MPV 57	0.0	-
USG 3209	2.0	0.0
USG 3592	4.0	0.3
Vigoro Dominion	1.0	-
Vigoro McIntosh	0.0	0.0

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

TABLE 17. DISEASE RATINGS FOR OAT VARIETIES IN ALABAMA, 2005-2006

Brand-variety	Helminthosporium leaf spot ¹	Crown rust ¹	Barley yellow dwarf ²
Northern Alabama			
AR 0258-7	0.4	0.0	15.8
Florida 501	1.7	0.0	45.8
LA 97006GBS-22-B-S2	0.8	0.0	16.7
LA 981DSBS-58	1.3	0.0	15.8
LA 99016SBSB-98	1.6	0.0	25.0
SS 76-40	0.8	0.3	7.0
Central Alabama			
AR 0258-7	0.7	0.0	45.6
Florida 501	1.3	0.0	46.7
LA 97006GBS-22-B-S2	1.0	0.0	34.4
LA 981DSBS-58	0.8	0.0	22.2
LA 99016SBSB-98	1.2	0.0	22.8
Southern Alabama			
Florida 501	1.4	0.8	67.8
LA 97006GBS-22-B-S2	0.7	0.0	37.2
LA 981DSBS-58	1.2	0.1	40.0
LA 99016SBSB-98	1.1	0.0	34.4

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

²Percent symptomatic plants.

TABLE 18. DISEASE RATINGS FOR TRITICALE VARIETIES IN ALABAMA, 2005-2006

Brand-variety	Septoria leaf blotch ¹	Leaf rust ¹	Barley yellow dwarf ²
Northern Alabama			
Trical 314	2.0	0.0	25.0
Trical 342	2.7	0.0	31.7
Central Alabama			
Trical 314	2.0	0.0	41.1
Trical 342	2.1	0.0	43.3
Southern Alabama			
Trical 314	3.0	0.0	65.6
Trical 342	3.2	0.0	83.3

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

²Percent symptomatic plants.

TABLE 19. DISEASE RATINGS FOR BARLEY VARIETIES IN NORTHERN ALABAMA, 2005-2006

Brand-variety	Spot blotch ¹	Net blotch ¹	Barley yellow dwarf ²
Doyce	2.2	2.7	58.3
Price	1.0	2.3	39.2
Thoroughbred	1.7	3.2	25.0
VA 01H-68	2.2	2.0	41.7

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

²Percent symptomatic plants.

SOURCES OF SEED

Cultivar	Source
Wheat	
AGS 2000, AGS 2010	AGSouth Genetics
Fleming	Albany, Georgia
All Coker brand varieties	Syngenta Seeds, Inc. Bay, Arkansas
GA Gore	Alabama Crop Improvement Assn., Auburn, Alabama
GA 951079-2E31 *, GA 951216-2E26 *, GA 951395-3E25 *, GA 951395-3A31 *, GA 96229-3A41 *, GA 96229-3E39 *	University of Georgia Griffin, Georgia
All Pioneer brand varieties	Pioneer Hi-Bred Interational Huntsville, Alabama
SS-MPV-57, SS 520, SS 535, SS 8308, SS 8302, SS 8404	Southern States Coop. Richmond, Virginia
USG 3209, USG 3592	UniSouth Genetics, Inc. Nashville, Tennessee
Vigoro Dominion, Vigoro McIntosh	Royster-Clark, Inc. Washington C.H., Ohio
Triticale	
Trical 314, Trical 342	Resource Seeds, Inc. Union, Kentucky
Oat	
Fla. 501	Alabama crop Improvement Assn., Auburn, Alabama
LA 9810SBS-58 *	Louisiana State University
LA 97006GBS-22-B-S2 *	Baton Rouge, Louisiana
LA 99016SBSB-98 *	
SS 76-40	Southern States Coop. Richmond, Virginia
AR0258-7 *	University of Arkansas Fayetteville, Arkansas

* Experimental line; not yet commercially available.