

*Performance
of Small Grain
Varieties for
Grain in
Alabama,
2003*

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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 2003 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 2002 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. 251, Performance of Small Grain Varieties for Forage in Alabama, 2003-03.

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, and 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 2002-2003 variety tests are summarized by region in Tables 13 - 20. Katherine B. Burch, Research Associate, Department of Entomology and Plant Pathology, made disease ratings at all locations. Disease onset on wheat was later than in previous years. At the time of mid-season ratings on wheat, incidence of leaf rust, leaf blotch, and powdery mildew was lower at most locations than in 2002. Stripe was also observed in scattered locations across the state, however, incidence and severity were lower than observed last year. On oats, levels of *Helminthosporium* leaf spot were similar to those observed last year. Crown rust was not detected in the northern locations and reduced incidence was observed in the central and southern regions from last year. On triticale, low levels leaf blotch were observed at most locations while leaf rust was detected on one variety at the southern 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.

DISCUSSION

Growing conditions and variety performance often vary among locations and years. In the 2000-01 growing season, planting was delayed due to wet soil conditions. Most locations had a wet spring. Moderate freeze damage occurred at several locations. In the 2001-02 growing season, planting was delayed at Crossville, Prattville, Headland and Fairhope due to dry soil conditions. Again, in the 2002-03 growing season, most plantings were delayed due to wet soil conditions.

TABLE 1. LOCATION, PLANTING AND HARVESTING DATES FOR THE 2002-03 SMALL GRAIN TESTS

Location	Date planted	Date harvested
<u>Northern Alabama</u>		
Tennessee Valley Res. & Ext. Ctr. (Belle Mina)		
Small grain-forage only	October 18	
Small grain-grain only	November 13	June 9
Sand Mountain Res. & Ext. Ctr. (Crossville)		
Small grain-forage only	October 23	
Small grain-grain only	November 9	not harvested
<u>Central Alabama</u>		
Black Belt Res. & Ext. Ctr. (Marion Junction)		
Small grain-forage only	October 9	
Small grain-grain only	December 3	June 2
E.V. Smith Res. Ctr., Plant Breeding Unit (Tallassee)		
Small grain-forage only	October 10	
Small grain-grain only	November 1	May 30
Prattville Experiment Field (Prattville)		
Small grain-forage only	October 8	
Small grain-grain only	November 25	June 17
<u>Southern Alabama</u>		
Wiregrass Res. & Ext. Ctr. (Headland)		
Small grain-forage only	October 17	
Small grain-grain only	December 2	June 2
Brewton Experiment Field (Brewton)		
Small grain-forage only	October 10	
Small grain-grain only	December 3	May 29
Gulf Coast Res. & Ext. Ctr. (Fairhope)		
Small grain-forage only	October 22	
Small grain-grain only	December 2	May 24

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

Brand-Variety	2003		2002-03	2001-03
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
Wheat				
SS 520	53.8	60	63	63
Pioneer 26R24	52.5	54	63	63
AGS 2000	54.3	57	61	62
SS 535	54.7	50	61	62
Jackson	53.4	52	60	59
USG 3209	52.7	46	54	57
Roberts	50.1	37	51	51
Croplan Genetics 554W	53.2	56	65	----
Croplan Genetics 517W	50.7	51	62	----
Pat	54.5	55	59	----
Tribute	55.2	50	58	----
Coker 9184	56.1	48	57	----
McCormick	54.6	50	56	----
SS 550	53.0	48	56	----
GA 931241E16	54.6	59	----	----
Pioneer 26R12	55.9	58	----	----
LA 90185G3-1-3-4-2	54.1	53	----	----
SS 560	53.5	53	----	----
AGS 2485	54.9	53	----	----
Pioneer 26R58	52.0	52	----	----
NK B950943	51.9	46	----	----
Armor 3035	52.4	46	----	----
Oat				
Chapman	29.4	93	99	100
Horizon 314	28.3	98	93	85
Horizon 474	33.1	109	98	----
FL 9708-P37	32.5	106	----	----
TX01CSRH Sel 1	29.9	103	----	----
Barley				
VA 97B-388	40.5	92	85	81
Callao	39.1	78	77	74
Nomini	41.1	68	70	58
Price	40.9	76	72	
VA00H-137	47.9	75		
Triticale				
Trical 498	45.3	68	73	74
Trical 314	47.9	78	71	----
Test Mean		64		
LSD(0.10)		8		
C.V. (%)		14		

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

Brand-Variety	2003		2002-03	2001-03
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
Wheat				
AGS 2000	54.3	57	61	58
Pioneer 26R24	52.5	54	62	56
SS 520	53.8	60	61	55
Jackson	53.4	52	59	54
SS 535	54.7	50	58	54
USG 3209	52.7	46	52	50
Roberts	50.1	37	49	44
Croplan Genetics 554W	53.2	56	61	----
Croplan Genetics 517W	50.7	51	59	----
Pat	54.5	55	59	----
Tribute	55.2	50	57	----
Coker 9184	56.1	48	55	----
McCormick	54.6	50	55	----
SS 550	53.0	48	53	----
GA 931241E16	54.6	59	----	----
Pioneer 26R12	55.9	58	----	----
LA 90185G3-1-3-4-2	54.1	53	----	----
SS 560	53.5	53	----	----
AGS 2485	54.9	53	----	----
Pioneer 26R58	52.0	52	----	----
NK B950943	51.9	46	----	----
Armor 3035	52.4	46	----	----
Oat				
Chapman	29.4	93	91	91
Horizon 314	28.3	98	101	89
Horizon 474	33.1	109	95	----
FL 9708-P37	32.5	106	----	----
TX01CSRH Sel 1	29.9	103	----	----
Barley				
VA 97B-388	40.5	92	85	77
Callao	39.1	78	71	66
Nomini	41.1	68	66	63
Price	40.9	76	69	----
VA00H-137	47.9	75	----	----
Triticale				
Trical 498	45.3	68	70	69
Trical 314	47.9	78	74	----
Test Mean		64		
LSD(0.10)		8		
C.V. (%)		11		

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

**THIS TRIAL WAS ESTABLISHED BUT NOT HARVESTED DUE
TO EXCESSIVE LODGING**

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

Brand-Variety	2003		2002-03	2001-03
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
Wheat				
Roberts	49.4	36	38	44
Jackson	51.8	47	40	44
McCormick	53.2	51	47	----
Pat	51.1	48	44	----
Tribute	55.1	47	40	----
LA 90185G3-1-3-4-2	52.2	51	----	----
Pioneer 26R12	53.6	50	----	----
Armor 3035	49.8	50	----	----
USG 3209	52.2	50	----	----
GA 931241E16	53.2	46	----	----
Oat				
Horizon 314	25.9	40	34	41
Chapman	27.5	52	35	37
Horizon 474	31.0	45	32	----
FL 9708-P37	30.5	64	----	----
TX01CSRH Sel 1	25.6	50	----	----
Triticale				
Trical 498	41.1	34	30	38
Trical 314	44.6	39	31	----
Test Mean		47		
LSD(0.10)		7		
C.V. (%)		14		

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

Brand-Variety	2003		2002-03	2001-03
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
Wheat				
Roberts	44.9	45	46	50
Jackson	49.5	55	46	43
Pat	50.3	62	54	----
McCormick	50.4	58	48	----
Tribute	52.4	68	47	----
LA 90185G3-1-3-4-2	51.3	66	----	----
Armor 3035	49.7	65	----	----
Pioneer 26R12	51.5	63	----	----
GA 931241E16	50.4	61	----	----
USG 3209	49.7	55	----	----
Oat				
Chapman	28.6	85	56	61
Horizon 314	27.3	71	50	60
Horizon 474	34.1	66	38	----
FL 9708-P37	32.1	89	----	----
TX01CSRH Sel 1	27.4	75	----	----
Triticale				
Trical 498	40.9	59	55	54
Trical 314	42.1	64	48	----
Test Mean		65		
LSD(0.10)		6		
C.V. (%)		8		

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

Brand-Variety	2003		2002-03	2001-03
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Wheat				
Jackson	52.2	65	41	54
Roberts	52.4	57	39	44
McCormick	54.2	71	45	----
Pat	53.9	69	45	----
Tribute	57.3	56	36	----
USG 3209	52.8	67	----	----
LA 90185G3-1-3-4-2	53.2	66	----	----
Pioneer 26R12	55.6	64	----	----
Armor 3035	48.8	61	----	----
GA 931241E16	54.9	57	----	----
Oat				
Horizon 314	27.9	25	16	22
Chapman	27.1	12	8	9
Horizon 474	28.5	17	15	----
FL 9708-P37	31.1	54	----	----
TX01CSRH Sel 1	25.8	33	----	----
Triticale				
Trical 498	39.7	14	11	26
Trical 314	43.6	24	17	----
Test Mean		48		
LSD(0.10)		12		
C.V. (%)		19		

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

Brand-Variety	2003		2002-03	2001-03
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Wheat				
McCormick	54.8	24	47	----
Tribute	55.8	16	38	----
Jackson	53.7	21	34	----
Pat	49.2	12	34	----
Roberts	50.8	5	29	----
USG 3209	54.2	27	----	----
Pioneer 26R12	53.7	24	----	----
Armor 3035	51.0	23	----	----
GA 931241E16	54.2	21	----	----
LA 90185G3-1-3-4-2	52.2	21	----	----
Oat				
Horizon 474	30.5	53	42	----
Chapman	26.9	59	41	----
Horizon 314	22.5	23	35	----
FL 9708-P37	28.3	49	----	----
TX01CSRH Sel 1	23.5	43	----	----
Triticale				
Trical 314	48.0	29	27	----
Trical 498	42.7	31	24	----
Test Mean		28		
LSD(0.10)		6		
C.V. (%)		16		

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

Brand-Variety	2003		2002-03	2001-03
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. [†]
Wheat				
USG 3209	54.7	64	62	69
Pioneer 26R38	55.0	61	62	65
Pioneer 26R61	56.3	61	57	59
Northrup King 9663	55.2	59	54	57
Jackson	53.6	56	46	52
Tribute	57.4	57	50	.
Coker 9152	53.7	51	50	----
McCormick	54.8	54	50	----
GA 931241E16	55.5	66	----	----
LA 90185G3-1-3-4-2	54.5	61	----	----
Croplan Genetics 514W	54.2	58	----	----
Pioneer 26R12	55.2	56	----	----
Armor 3035	53.2	53	----	----
Roberts	52.0	44	----	----
Oat				
Horizon 314	25.5	84	73	89
Chapman	27.0	63	56	78
Horizon 474	30.1	55	59	----
TX01CSRH Sel 1	29.6	84	----	----
FL 9708-P37	30.2	76	----	----
Triticale				
Trical 498	43.8	65	53	57
Trical 314	48.3	62	51	----
Test Mean		61		
LSD(0.10)		6		
C.V. (%)		9		

[†] 3-yr average based on data from Headland and Fairhope only

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

Brand-Variety	2003		2002-03	2001-03
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Wheat				
Pioneer 26R38	55.3	57	63	61
Pioneer 26R61	57.2	73	66	59
Northrup King 9663	55.1	67	55	51
Jackson	53.9	64	53	50
USG 3209	54.5	76	65	----
McCormick	54.8	60	54	----
Tribute	58.0	60	51	----
Coker 9152	54.0	56	44	----
GA 931241E16	56.1	84	----	----
LA 90185G3-1-3-4-2	55.0	67	----	----
Croplan Genetics 514W	54.4	66	----	----
Armor 3035	54.4	62	----	----
Pioneer 26R12	56.0	60	----	----
Roberts	51.6	51	----	----
Oat				
Horizon 314	25.7	77	71	74
Chapman	29.7	81	57	72
Horizon 474	33.7	96	83	----
FL 9708-P37	32.2	105	----	----
TX01CSRH Sel 1	30.6	105	----	----
Triticale				
Trical 498	41.1	64	65	57
Trical 314	46.6	57	58	----
Test Mean		71		
LSD(0.10)		9		
C.V. (%)		11		

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

Brand-Variety	2003		2002-03	2001-03
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. [†]
Wheat				
Pioneer 26R38	53.3	55	55	----
USG 3209	53.7	48	53	----
Northrup King 9663	53.6	46	50	----
Coker 9152	51.7	42	49	----
Pioneer 26R61	54.1	44	46	----
Tribute	55.9	44	43	----
McCormick	52.8	45	42	----
Jackson	51.2	46	39	----
LA 90185G3-1-3-4-2	53.0	51	----	----
GA 931241E16	54.0	49	----	----
Pioneer 26R12	53.2	45	----	----
Armor 3035	50.7	42	----	----
Croplan Genetics 514W	52.6	42	----	----
Roberts	51.0	41	----	----
Oat				
Horizon 314	25.0	78	63	----
Chapman	27.7	68	59	----
Horizon 474	28.9	42	49	----
FL 9708-P37	30.1	74	----	----
TX01CSRH Sel 1	27.9	63	----	----
Triticale				
Trical 314	47.1	50	41	----
Trical 498	42.8	45	35	----
Test Mean		50		
LSD(0.10)		4		
C.V. (%)		7		

[†] The three-yr average is not available since the trail at Brewton has only been in existence for two years.

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

Brand-Variety	2003		2002-03	2001-03
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Wheat				
Pioneer 26R38	56.3	71	67	73
USG 3209	56.0	68	66	72
Pioneer 26R61	57.6	66	59	67
Northrup King 9663	57.0	63	58	65
Jackson	55.7	60	46	58
Tribute	58.3	66	57	----
Coker 9152	55.5	54	57	----
McCormick	56.9	56	53	----
LA 90185G3-1-3-4-2	55.6	66	----	----
Croplan Genetics 514W	55.7	65	----	----
GA 931241E16	56.5	65	----	----
Pioneer 26R12	56.3	62	----	----
Armor 3035	54.5	55	----	----
Roberts	53.4	40	----	----
Oat				
Horizon 314	25.8	97	86	112
Chapman	23.7	41	52	82
Horizon 474	27.6	28	46	----
TX01CSRH Sel 1	30.2	84	----	----
FL 9708-P37	28.3	50	----	----
Triticale				
Trical 498	47.5	85	57	68
Trical 314	51.3	80	54	----
Test Mean		63		
LSD(0.10)		7		
C.V. (%)		9		

TABLE 13. BARLEY YELLOW DWARF RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2002-2003. THE NUMBERS GIVEN REPRESENT THE PERCENT OF SYMPTOMATIC PLANTS.

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
AGS 2000	66.7	-	-
AGS 485	56.7	-	-
Armor 3035	76.7	44.4	21.7
Croplan Genetics 514W	-	-	87.2
Croplan Genetics 517W	50.8	-	-
Croplan Genetics 554W	75.0	-	-
GA 931241E16	61.7	48.9	36.7
Jackson	59.2	52.8	51.7
LA 90185 G3-1-3-4-2	45.8	40.0	63.9
McCormick	48.3	52.9	51.7
NK B950943	44.2	-	-
NK Coker 9152	-	-	67.8
NK Coker 9184	55.0	-	-
NK Coker 9663	-	-	56.7
Pat	32.5	28.9	-
Pioneer 26R12	51.7	47.8	28.9
Pioneer 26R24	57.5	-	-
Pioneer 26R38	-	-	68.9
Pioneer 26R58	54.2	-	-
Pioneer 26R61	-	-	43.9
Roberts	50.8	43.9	68.3
SS-520	68.3	-	-
SS-535	53.3	-	-
SS-550	64.2	-	-
SS-560	70.0	-	-
Tribute	58.3	53.3	56.1
USG 3209	55.8	61.1	70.0

TABLE 14. LEAF RUST RATINGS RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2002-2003.
TPLOTS WERE EVALUATED ON A 0 - 10 SCALE, WHERE 0 = NO DISEASE AND 10= SEVERE DIS-
EASE

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
AGS 2000	0.0	----	----
AGS 485	0.0	----	----
Armor 3035	0.7	0.0	2.1
Croplan Genetics 514W			1.2
Croplan Genetics 517W	0.0	----	----
Croplan Genetics 554W	0.0	----	----
GA 931241E16	0.0	0.0	0.8
Jackson	0.8	0.9	1.9
LA 90185 G3-1-3-4-2	0.0	1.2	1.6
McCormick	0.0	0.0	0.0
NK B950943	0.0	----	----
NK Coker 9152	----	----	0.0
NK Coker 9184	0.0	----	----
NK Coker 9663	----	----	1.7
Pat	0.0	0.8	----
Pioneer 26R12	0.0	0.3	1.7
Pioneer 26R24	0.0	----	----
Pioneer 26R38	----	----	2.2
Pioneer 26R58	0.0	----	----
Pioneer 26R61	----	----	0.7
Roberts	0.0	0.8	1.1
SS-520	0.0	----	----
SS-535	0.0	----	----
SS-550	0.0	----	----
SS-560	0.5	----	----
Tribute	0.0	0.0	0.0
USG 3209	0.0	0.0	0.3

TABLE 15. LEAF BLOTCH RATINGS RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2002-2003.
TPLOTS WERE EVALUATED ON A 0 - 10 SCALE, WHERE 0 = NO DISEASE AND 10= SEVERE DIS-
EASE

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
AGS 2000	4.2	----	----
AGS 485	3.8	----	----
Armor 3035	5.0	4.4	3.7
Croplan Genetics 514W	----	----	4.6
Croplan Genetics 517W	3.5	----	----
Croplan Genetics 554W	3.8	----	----
GA 931241E16	3.5	4.5	3.9
Jackson	3.5	4.1	4.1
LA 90185 G3-1-3-4-2	4.0	4.4	4.4
McCormick	3.2	3.4	4.0
NK B950943	3.8	----	----
NK Coker 9152	----	----	4.4
NK Coker 9184	3.3	----	----
NK Coker 9663	----	----	4.1
Pat	3.5	3.8	----
Pioneer 26R12	4.0	4.1	3.1
Pioneer 26R24	3.6	----	----
Pioneer 26R38	----	----	4.4
Pioneer 26R58	3.7	----	----
Pioneer 26R61	----	----	4.2
Roberts	4.3	4.2	4.5
SS-520	3.7	----	----
SS-535	3.8	----	----
SS-550	4.2	----	----
SS-560	3.9	----	----
Tribute	3.3	3.8	4.2
USG 3209	4.0	4.2	4.4

TABLE 16. STRIPE RUST RATINGS RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2002-2003.
TPLOTS WERE EVALUATED ON A 0 - 10 SCALE, WHERE 0 = NO DISEASE AND 10= SEVERE DIS-
EASE

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
AGS 2000	0.0	----	----
AGS 485	0.0	----	----
Armor 3035	0.0	0.0	0.0
Croplan Genetics 514W	----	----	0.2
Croplan Genetics 517W	0.0	----	----
Croplan Genetics 554W	0.0	----	----
GA 931241E16	0.0	0.0	0.0
Jackson	0.2	0.0	0.0
LA 90185 G3-1-3-4-2	0.0	0.2	0.0
McCormick	0.0	0.7	0.2
NK B950943	0.0	----	----
NK Coker 9152	----	----	0.0
NK Coker 9184	0.0	----	----
NK Coker 9663			
Pat	0.0	0.0	----
Pioneer 26R12	0.0	0.0	0.0
Pioneer 26R24	0.0	----	----
Pioneer 26R38	----	----	0.0
Pioneer 26R58	0.0	----	----
Pioneer 26R61	----	----	0.0
Roberts	0.0	0.2	0.0
SS-520	0.0	----	----
SS-535	0.0	----	----
SS-550	0.0	----	----
SS-560	0.0	----	----
Tribute	0.0	0.3	0.0
USG 3209	0.0	0.0	0.0

TABLE 17. POWDERY MILDEW RATINGS RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2002-2003. TPLOTS WERE EVALUATED ON A 0 - 10 SCALE, WHERE 0 = NO DISEASE AND 10= SEVERE DISEASE

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
AGS 2000	0.0	----	----
AGS 485	0.0	----	----
Armor 3035	0.7	0.8	0.0
Croplan Genetics 514W	----	----	0.0
Croplan Genetics 517W	0.0	----	----
Croplan Genetics 554W	0.0	----	----
GA 931241E16	0.0	0.0	0.0
Jackson	1.0	0.0	0.0
LA 90185 G3-1-3-4-2	0.0	0.0	0.0
McCormick	0.0	0.0	0.0
NK B950943	0.7	----	----
NK Coker 9152	----	----	0.0
NK Coker 9184	0.0	----	----
NK Coker 9663	----	----	0.0
Pat	2.0	0.0	----
Pioneer 26R12	0.0	0.3	0.0
Pioneer 26R24	0.0	----	----
Pioneer 26R38	----	----	0.0
Pioneer 26R58	0.0	----	----
Pioneer 26R61	----	----	0.0
Roberts	0.0	0.0	0.0
SS-520	0.0	----	----
SS-535	0.0	----	----
SS-550	0.0	----	----
SS-560	0.0	----	----
Tribute	0.0	0.0	0.0
USG 3209	0.0	0.0	0.0

TABLE 18. DISEASE RATINGS RATINGS FOR OAT VARIETIES IN ALABAMA, 2002-2003.

Brand-variety	Helminthosporium leaf spot [†]	Crown rust	Barley yellow dwarf [‡]
<u>Northern Alabama</u>			
Chapman	1.7	0.0	61.7
FL 9708-P37	1.0	0.0	50.0
Horizon 314	1.6	0.0	38.3
Horizon 474	1.3	0.0	66.7
TX01CSRH SEL1	1.5	0.0	50.8
<u>Central Alabama</u>			
Chapman	3.3	0.0	36.7
FL 9708-P37	2.8	0.0	15.0
Horizon 314	3.1	0.2	27.5
Horizon 474	3.2	0.0	23.3
TX01CSRH SEL1	3.8	0.0	60.8
<u>Southern Alabama</u>			
Chapman	2.7	2.0	65.6
FL 9708-P37	2.6	0.0	26.2
Horizon 314	2.4	1.2	30.6
Horizon 474	3.3	0.0	74.4
TX01CSRH SEL1	2.9	0.0	61.7

[†] 0-10 scale: 0 = no disease, 10 = severe disease.

[‡] Percent symptomatic plants

TABLE 19. DISEASE RATINGS RATINGS FOR TRITICALE VARIETIES IN ALABAMA, 2002-2003.

Brand-variety	Leaf blotch [†]	Leaf rust [†]	Barley yellow dwarf [‡]
<u>Northern Alabama</u>			
Trical 314	3.3	0.0	49.2
Trical 498	4.0	0.0	47.5
<u>Central Alabama</u>			
Trical 314	5.8	0.0	67.8
Trical 498	5.4	0.0	69.4
<u>Southern Alabama</u>			
Trical 314	5.9	0.0	81.7
Trical 498	6.3	0.7	71.1

[†] 0-10 scale: 0 = no disease, 10 = severe disease.

[‡] Percent symptomatic plants

TABLE 20. DISEASE RATINGS RATINGS FOR BARLEY VARIETIES IN ALABAMA, 2002-2003.

Brand-variety	Spot blotch [†]	Net blotch [†]	Barley scald [†]	Barley yellow dwarf [‡]
Callao	1.5	3.2	1.7	73.3
Nomini	2.0	3.5	1.2	71.7
Price	1.5	3.7	1.8	72.5
VA 97B-388	2.3	3.0	1.2	73.3
VAOOH-137	2.2	3.0	1.8	65.0

[†] 0-10 scale: 0 = no disease, 10 = severe disease.

[‡] Percent symptomatic plants

SOURCES OF SEED

WHEAT

AGS 2000, AGS 485	AgSouth Genetics Newton, Georgia
Armor 3035	Armor Seed Company Fisher, Arkansas
LA 90185G3-1-3-4-2*, Plot Spike (LA 9339)	Louisiana State University Baton Rouge, Louisiana
Pat	University of Arkansas Fayetteville, Arkansas
GA 931241E16*, Roberts	Univ. of Georgia, Georgia Station Griffin, Georgia
Coker (all varieties, brands, and hybrids)	Syngenta Seeds Bay, Arkansas
Pioneer (all varieties, brands, and hybrids)	Pioneer, A DuPont Company Huntsville, Alabama
Jackson, McCormick	Virginia Polytechnic Inst. Blacksburg, Virginia
Croplan Genetics 514W, Croplan Genetics 517W, Croplan Genetics 554W	Croplan Genetics Memphis, Tennessee
SS-520, SS-535, SS-550, SS-560	Southern States Coop. Richmond, Virginia
USG 3209	UniSouth Genetics, Inc. Nashville, Tennessee
Tribute	Royster-Clark, Inc. Washington C.H., Ohio

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

Callao, Nomini, Price
VA 97B-388*, VA00H-137*

Virginia Polytechnic Inst.
Blacksburg, Virginia

TRITICALE

Trical 314, Trical 498

Resource Seeds, Inc.
Union, Kentucky

OAT

Chapman, Horizon 314,
Horizon 474, FL 9708-937*

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

TX01CSRH SEL1

Texas A&M University
College Station, Texas

* Experimental line; not yet commercially available.