

*Performance  
of Small Grain  
Varieties for  
Grain in  
Alabama,  
2004*

*Agronomy and Soils Departmental Series No. 261  
Alabama Agricultural Experiment Station  
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Auburn University, Auburn, Alabama,  
August 2004*

*Printed in cooperation with the Alabama Cooperative Extension System  
(Alabama A&M University and Auburn University)*

## TABLE OF CONTENTS

	<b>Page</b>
Acknowledgments .....	. 2
Introduction .....	. 3
Procedure .....	. 3
Data Explanation .....	. 3
Discussion .....	. 4
Location and Planting and Harvest Dates for 2003-04	
Small Grain Tests .....	. 5
North Alabama Regional Averages of Small Grain Variety	
Performance .....	. 6
Tennessee Valley Research and Extension Center Small Grain Trial, Belle Mina .....	. 8
Sand Mountain Research and Extension Center Small Grain Trial, Crossville .....	10
Central Alabama Regional Averages of Small Grain Variety	
Performance .....	12
Prattville Experiment Field Small Grain Trial, Prattville .....	13
E.V. Smith Res. Ctr. Small Grain Trial, Plant Breeding Unit, Tallassee .....	. 14
Black Belt Research and Extension Center Small Grain Trial, Marion Junction .....	15
South Alabama Regional Averages of Small Grain Variety	
Performance .....	16
Wiregrass Research and Extension Center Small Grain Trial, Headland .....	17
Brewton Experiment Field Small Grain Trial, Brewton .....	18
Gulf Coast Research and Extension Center Small Grain Trial, Fairhope .....	19
Disease Ratings	
Barley Yellow Dwarf, Wheat .....	20
Leaf Rust, Wheat .....	21
Leaf Blotch, Wheat .....	22
Stripe Rust, Wheat .....	23
Powdery Mildew, Wheat .....	24
Oat .....	25
Triticale .....	26
Barley .....	26
Sources of Seed .....	27

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

**ACKNOWLEDGMENTS**

Appreciation is expressed to the following supervisory personnel of the outlying units whose support is gratefully acknowledged:

**Northern Alabama**

Tennessee Valley Research and Extension Center, Belle Mina .....B.E. Norris, Jr., Supt.

Sand Mountain Research and Extension Center, Crossville.....R.A. Dawkins, Supt.

**Central Alabama**

Black Belt Research and Extension Center, Marion Junction .....J.L. Holliman, Supt.

Prattville Experiment Field.....D.P. Moore, Supt.

E.V. Smith Research Center, Plant Breeding Unit, Tallassee .....S.P. Nightengale, Supt.

**Southern Alabama**

Brewton Experiment Field .....J.R. Akridge, Supt.

Gulf Coast Research and Extension Center, Fairhope.....N.R. McDaniel, Supt.  
M.D. Pegues, Assoc. Supt.

Wiregrass Research and Extension Center, Headland.....L.W. Wells, Supt.  
B.E. Gamble, Asst. Supt.

# 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. 260, Performance of Small Grain Varieties for Forage in Alabama, 2003-04.

## 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 2003-2004 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 was slightly higher while leaf blotch, strip rust and powdery mildew was unchanged at most locations than in 2003. On oats, levels of *Helminthosporium* leaf spot were lower than those observed last year. Crown rust was not detected in the central or northern locations and reduced incidence was observed southern region from last year. On triticale, low levels leaf blotch were observed at most locations while leaf rust was detected only in southern and central 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 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. In the 2003-04 growing season most plantings were on time. Harvest was delayed at Crossville due to wet conditions.

TABLE 1. LOCATION, PLANTING AND HARVESTING DATES FOR THE 2003-04 SMALL GRAIN TESTS

Location	Date planted	Date harvested
<b><u>Northern Alabama</u></b>		
Tennessee Valley Res. & Ext. Ctr. (Belle Mina)		
Small grain-forage only	October 9	
Small grain-grain only	October 21	June 17
Sand Mountain Res. & Ext. Ctr. (Crossville)		
Small grain-forage only	October 9	
Small grain-grain only	October 24	July 6
<b><u>Central Alabama</u></b>		
Black Belt Res. & Ext. Ctr. (Marion Junction)		
Small grain-forage only	October 23	
Small grain-grain only	October 23	June 10
E.V. Smith Res. Ctr., Plant Breeding Unit (Tallassee)		
Small grain-forage only	October 7	
Small grain-grain only	November 7	May 25
Prattville Experiment Field (Prattville)		
Small grain-forage only	October 14	
Small grain-grain only	November 12	June 22
<b><u>Southern Alabama</u></b>		
Wiregrass Res. & Ext. Ctr. (Headland)		
Small grain-forage only	October 15	
Small grain-grain only	December 2	June 8
Brewton Experiment Field (Brewton)		
Small grain-forage only	October 15	
Small grain-grain only	November 17	May 27
Gulf Coast Res. & Ext. Ctr. (Fairhope)		
Small grain-forage only	October 17	
Small grain-grain only	November 10	May 20

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

Brand-Variety	2004		2002+04	2001+02+04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
<i>Wheat</i>				
Pioneer 26R24	55.5	99	86	78
AGS 2000	57.1	95	80	75
SS 535	55.4	89	81	75
USG 3209	55.5	96	79	74
SS 520	54.9	84	76	71
Jackson	55.3	83	76	70
Tribute	56.5	89	78	----
Coker 9184	55.9	89	78	----
McCormick	56.2	88	75	----
SS 550	55.0	81	72	----
Pat	53.1	79	71	----
NK B950943	54.2	91	----	----
Croplan Genetics 8308	----	90	----	----
Pioneer 26R58	54.5	90	----	----
Pioneer 26R15	53.8	90	----	----
USG 3592	55.6	89	----	----
Pioneer 26R12	56.7	87	----	----
UGA 931233-E17	55.6	87	----	----
NK Coker 9375	52.9	86	----	----
AGS 2485	56.8	85	----	----
AR 910-9-1	54.6	84	----	----
Pioneer 25R23	54.7	83	----	----
Pioneer 25R37	53.5	80	----	----
Croplan Genetics 514W	----	79	----	----
Coker 9152	55.0	78	----	----
SS 560	52.8	59	----	----

*continued*

TABLE 2. CONTINUED

Brand-Variety	2004		2002+04	2001+02+04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
<b><i>Oat</i></b>				
Horizon 314	33.1	117	103	92
Horizon 474	37.4	112	99	----
FL 9708-P37	35.9	118	----	----
Harrison	37.3	108	----	----
<b><i>Barley</i></b>				
Thoroughbred	45.8	112	95	88
Callao	44.9	94	85	80
Nomini	43.8	113	93	73
Price	44.9	105	86	----
Doyce	53.1	94	----	----
<b><i>Triticale</i></b>				
Trical 498	47.8	112	95	88
Trical 314	49.7	85	74	----
FL 91142-A19	50.0	118	----	----
FL 93078-Y18	50.1	97	----	----
FL 94128-Y1-A8	50.6	97	----	----
<b><i>Test Mean</i></b>	----	93	----	----
<b><i>LSD(0.10)</i></b>	----	17	----	----
<b><i>C.V. (%)</i></b>	----	16	----	----

Multiyear averages are based on 2004, 2002, and 2001 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	2004		2003-04	2002-04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
<i>Wheat</i>				
AGS 2000	57.1	91	74	71
Pioneer 26R24	55.5	84	69	69
Jackson	55.3	81	66	67
SS 535	55.4	76	63	64
Tribute	56.5	79	65	64
SS 520	54.9	68	64	64
USG 3209	55.5	85	66	63
Pat	53.1	71	63	63
McCormick	56.2	79	64	63
Coker 9184	55.9	77	63	62
SS 550	55.0	69	58	58
USG 3592	55.6	82	70	----
Pioneer 26R58	54.5	83	68	----
Pioneer 26R12	56.7	76	67	----
AGS 2485	56.8	79	66	----
NK B950943	54.2	80	63	----
SS 560	52.8	49	51	----
Croplan Genetics 8308	----	86	----	----
NK Coker 9375	52.9	82	----	----
Pioneer 26R15	53.8	79	----	----
Pioneer 25R37	53.5	77	----	----
AR 910-9-1	54.6	75	----	----
Coker 9152	55.0	74	----	----
Pioneer 25R23	54.7	74	----	----
UGA 931233-E17	55.6	67	----	----
Croplan Genetics 514W	----	65	----	----

*continued*

TABLE 3. CONTINUED.

Brand-Variety	2004		2003-04	2002-04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
<b>Oat</b>				
Horizon 314	33.1	139	118	114
Horizon 474	37.4	139	124	110
FL 9708-P37	35.9	140	123	----
Harrison	37.3	119	----	----
<b>Barley</b>				
Thoroughbred	45.8	120	106	97
Price	44.9	116	96	85
Nomini	43.8	115	91	82
Callao	44.9	104	91	82
Doyce	53.1	107	91	----
<b>Triticale</b>				
Trical 498	47.8	115	91	85
Trical 314	49.7	95	86	81
FL 91142-A19	50.0	118	----	----
FL 93078-Y18	50.1	105	----	----
FL 94128-Y1-A8	50.6	97	----	----
<b>Test Mean</b>	----	90	----	----
<b>LSD(0.10)</b>	----	8	----	----
<b>C.V. (%)</b>	----	8	----	----

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

Brand-Variety	2004		2002+04	2001+02+04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
<i>Wheat</i>				
Pioneer 26R24	----	114	95	89
SS 535	----	101	90	87
SS 520	----	100	86	85
USG 3209	----	108	86	85
AGS 2000	----	98	82	80
Jackson	----	85	78	76
Coker 9184	----	101	86	----
Tribute	----	100	85	----
McCormick	----	98	82	----
SS 550	----	93	81	----
Pat	----	88	75	----
UGA 931233-E17	----	106	----	----
NK B950943	----	101	----	----
Pioneer 26R15	----	100	----	----
Pioneer 26R12	----	98	----	----
Pioneer 26R58	----	97	----	----
USG 3592	----	96	----	----
Croplan Genetics 8308	----	95	----	----
Croplan Genetics 514W	----	94	----	----
Pioneer 25R23	----	92	----	----
AR 910-9-1	----	92	----	----
AGS 2485	----	91	----	----
NK Coker 9375	----	89	----	----
Pioneer 25R37	----	84	----	----
Coker 9152	----	82	----	----
SS 560	----	68	----	----

*continued*

TABLE 4. CONTINUED.

Brand-Variety	2004		2002+04	2001+02+04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
<b>Oat</b>				
Horizon 314	----	96	84	82
Horizon 474	----	86	89	----
FL 9708-P37	----	97	----	----
Harrison	----	96	----	----
<b>Barley</b>				
Thoroughbred	----	103	90	89
Callao	----	85	85	85
Nomini	----	110	96	67
Price	----	94	84	----
Doyce	----	82	----	----
<b>Triticale</b>				
Trical 498	----	109	96	92
Trical 314	----	75	66	----
FL 91142-A19	----	119	----	----
FL 94128-Y1-A8	----	97	----	----
FL 93078-Y18	----	90	----	----
<b>Test Mean</b>	----	95	----	----
<b>LSD(0.10)</b>	----	8	----	----
<b>C.V. (%)</b>	----	7	----	----

Multiyear averages are based on 2004, 2002, and 2001 crop years because of crop failure at Crossville in 2003.

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

Brand-Variety	2004		2003-04	2002-04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
<b>Wheat</b>				
McCormick	56.7	88	69	60
Tribute	57.9	96	71	59
Jackson	54.1	79	63	53
USG 3209	53.5	96	73	----
USG 3592	54.3	88	67	----
UGA 931233-E17	55.3	89	----	----
<b>Oat</b>				
Horizon 314	28.6	88	64	52
Horizon 474	31.9	81	63	48
FL 9708-P37	32.1	105	85	----
Harrison	32.2	97	----	----
<b>Triticale</b>				
Trical 498	46.0	113	74	58
Trical 314	48.0	102	71	55
FL 91142-A19	49.1	113	----	----
FL 93078-Y18	49.2	97	----	----
FL 94128-Y1-A8	49.5	96	----	----
<b>Test Mean</b>	----	95	----	----
<b>LSD(0.10)</b>	----	45	----	----
<b>C.V. (%)</b>	----	37	----	----

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

Brand-Variety	2004		2003-04	2002-04
	Test wt	Avg.	Avg.	Avg.
	lbs/bu	-----	bu/acre	-----
<b>Wheat</b>				
McCormick	54.9	82	70	59
Tribute	56.3	80	74	58
Jackson	52.1	70	63	54
USG 3592	52.1	78	69	----
USG 3209	51.8	80	67	----
UGA 931233-E17	55.3	78	----	----
<b>Oat</b>				
Horizon 314	29.3	101	86	67
Horizon 474	30.9	45	55	41
FL 9708-P37	32.0	91	90	----
Harrison	31.4	32	----	----
<b>Triticale</b>				
Trical 498	45.5	113	86	74
Trical 314	45.6	102	83	66
FL 91142-A19	49.0	90	----	----
FL 93078-Y18	49.7	89	----	----
FL 94128-Y1-A8	48.0	85	----	----
<b>Test Mean</b>	----	81	----	----
<b>LSD(0.10)</b>	----	14	----	----
<b>C.V. (%)</b>	----	11	----	----

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

Brand-Variety	2004		2003-04	2002-04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
<b>Wheat</b>				
McCormick	61.6	112	92	68
Tribute	61.0	126	91	66
Jackson	58.0	106	86	63
USG 3209	57.7	133	100	----
USG 3592	58.8	119	88	----
UGA 931233-E17	58.4	118	----	----
<b>Oat</b>				
Horizon 314	30.6	99	62	44
Horizon 474	34.7	102	59	44
FL 9708-P37	35.3	148	101	----
Harrison	34.4	124	----	----
<b>Triticale</b>				
Trical 314	51.9	162	93	66
Trical 498	48.6	169	91	64
FL 91142-A19	51.3	178	----	----
FL 93078-Y18	51.1	150	----	----
FL 94128-Y1-A8	52.6	149	----	----
<b>Test Mean</b>	----	133	----	----
<b>LSD(0.10)</b>	----	14	----	----
<b>C.V. (%)</b>	----	8	----	----

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

Brand-Variety	2004		2003-04	2002-04
	Test wt	Avg.	Avg.	Avg.
	lbs/bu	----- bu/acre -----		
<b>Wheat</b>				
McCormick	53.5	69	46	54
Tribute	56.3	83	50	53
Jackson	52.2	59	40	42
USG 3209	51.1	76	51	----
USG 3592	52.0	67	44	----
UGA 931233-E17	52.3	72	----	----
<b>Oat</b>				
Horizon 474	30.2	73	63	53
Horizon 314	26.0	72	48	47
FL 9708-P37	28.9	68	59	----
Harrison	30.9	92	----	----
<b>Triticale</b>				
Trical 498	43.8	57	44	35
Trical 314	46.5	43	36	33
FL 91142-A19	46.9	70	----	----
FL 94128-Y1-A8	47.8	55	----	----
FL 93078-Y18	46.9	53	----	----
<b>Test Mean</b>	----	67	----	----
<b>LSD(0.10)</b>	----	9	----	----
<b>C.V. (%)</b>	----	11	----	----



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

Brand-Variety	2004		2003-04	2002-04
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
<b>Wheat</b>				
USG 3209	56.4	69	66	64
Pioneer 26R61	57.4	65	63	60
Pioneer 26R38	54.9	33	47	52
Tribute	58.4	55	56	52
McCormick	57.0	56	55	52
Jackson	54.7	41	49	44
USG 3592	56.3	60	63	----
Croplan Genetics 514W	53.4	52	55	----
AGS 2000	56.9	70	----	----
AGS 2485	57.3	64	----	----
UGA 931233-E17	56.5	56	----	----
Croplan Genetics 8308	56.0	43	----	----
<b>Oat</b>				
Horizon 314	26.7	59	71	68
Horizon 474	31.8	53	54	57
FL 9708-P37	33.2	72	74	----
Harrison	32.9	57	----	----
<b>Triticale</b>				
Trical 498	48.1	81	73	62
Trical 314	51.3	78	70	60
FL 91142-A19	50.5	81	----	----
FL 93078-Y18	51.3	69	----	----
FL 94128-Y1-A8	50.6	67	----	----
<b>Test Mean</b>	----	61	----	----
<b>LSD(0.10)</b>	----	16	----	----
<b>C.V. (%)</b>	----	20	----	----

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.
<b>Wheat</b>				
Pioneer 26R61	54.6	62	67	64
USG 3209	55.0	58	67	63
McCormick	55.8	50	55	53
Tribute	56.6	51	56	51
Pioneer 26R38	53.6	22	40	49
Jackson	53.5	27	46	44
USG 3592	54.0	51	67	----
Croplan Genetics 514W	48.2	53	59	----
AGS 2000	54.3	68	----	----
Croplan Genetics 8308	55.0	58	----	----
UGA 931233-E17	55.2	57	----	----
AGS 2485	54.6	49	----	----
<b>Oat</b>				
Horizon 474	31.4	49	73	72
Horizon 314	28.5	57	67	66
FL 9708-P37	33.0	51	78	----
Harrison	34.1	48	----	----
<b>Triticale</b>				
Trical 498	47.4	74	69	68
Trical 314	50.8	85	71	67
FL 91142-A19	49.2	74	----	----
FL 94128-Y1-A8	50.5	64	----	----
FL 93078-Y18	50.1	56	----	----
<b>Test Mean</b>	----	55	----	----
<b>LSD(0.10)</b>	----	6	----	----
<b>C.V. (%)</b>	----	9	----	----

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.
<b>Wheat</b>				
USG 3209	56.2	70	59	59
Pioneer 26R61	58.4	72	58	55
Pioneer 26R38	54.8	47	51	52
Tribute	58.9	70	57	52
McCormick	56.7	71	58	52
Jackson	54.6	51	48	43
USG 3592	56.5	68	59	----
Croplan Genetics 514W	57.3	53	47	----
AGS 2485	58.6	75	----	----
AGS 2000	57.3	69	----	----
UGA 931233-E17	56.5	49	----	----
Croplan Genetics 8308	56.0	42	----	----
<b>Oat</b>				
Horizon 314	29.7	75	77	67
Horizon 474	32.9	53	47	50
FL 9708-P37	32.9	73	73	----
Harrison	33.5	72	----	----
<b>Triticale</b>				
Trical 498	48.2	87	66	52
Trical 314	50.6	68	59	50
FL 91142-A19	51.2	82	----	----
FL 93078-Y18	50.8	77	----	----
FL 94128-Y1-A8	50.2	70	----	----
<b>Test Mean</b>	----	66	----	----
<b>LSD(0.10)</b>	----	13	----	----
<b>C.V. (%)</b>	----	16	----	----

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.
<b>Wheat</b>				
USG 3209	58.0	78	73	70
Pioneer 26R61	59.3	61	63	60
Pioneer 26R38	56.3	30	51	55
Tribute	59.7	45	56	53
McCormick	58.5	48	52	51
Jackson	56.0	45	52	46
USG 3592	58.5	62	64	----
Croplan Genetics 514W	54.8	51	58	----
AGS 2000	59.2	73	----	----
AGS 2485	58.7	68	----	----
UGA 931233-E17	57.9	62	----	----
Croplan Genetics 8308	56.9	29	----	----
<b>Oat</b>				
Horizon 314	21.8	44	71	72
Horizon 474	31.1	57	42	50
FL 9708-P37	33.6	91	71	----
Harrison	31.0	51	----	----
<b>Triticale</b>				
Trical 498	48.7	83	84	66
Trical 314	52.6	82	81	64
FL 91142-A19	51.0	86	----	----
FL 93078-Y18	53.1	75	----	----
FL 94128-Y1-A8	51.0	66	----	----
<b>Test Mean</b>	----	61	----	----
<b>LSD(0.10)</b>	----	13	----	----
<b>C.V. (%)</b>	----	17	----	----

**TABLE 13. BARLEY YELLOW DWARF RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2003-2004. THE NUMBERS GIVEN REPRESENT THE PERCENT OF SYMPTOMATIC PLANTS.**

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
AGS 2000	52.5	----	48.7
AGS 2485	25.8	----	40.8
AR 910-9-1	60.0	----	----
Coker 9152	46.7	----	----
Coker 9184	63.3	----	----
Coker 9295	44.2	----	----
Coker 9375	51.7	----	----
Croplan Genetics 514W	34.2	----	51.7
Croplan Genetics 8308	62.5	----	38.3
Jackson	40.8	18.4	68.3
McCormick	37.5	11.9	46.7
Pat	25.0	----	----
Pioneer 25R23	25.0	----	----
Pioneer 25R37	50.8	----	----
Pioneer 26R12	53.3	----	----
Pioneer 26R15	26.7	----	----
Pioneer 26R24	36.7	----	----
Pioneer 26R38	----	----	54.2
Pioneer 26R58	33.3	----	----
Pioneer 26R61	----	----	42.5
SS 520	68.3	----	----
SS 535	45.8	----	----
SS 550	43.3	----	----
SS 560	67.5	----	----
Tribute	47.5	16.8	20.0
UGA 931233-E17	44.2	12.9	38.3
USG 3209	19.2	3.8	20.0
USG 3592	37.5	8.8	17.5

TABLE 14. LEAF RUST RATINGS RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2003-2004. PLOTS 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	----	0.2
AGS 2485	0.0	----	0.0
AR 910-9-1	0.3	----	----
Coker 9152	0.0	----	----
Coker 9184	0.0	----	----
Coker 9295	0.0	----	----
Coker 9375	0.0	----	----
Croplan Genetics 514W	0.0	----	1.9
Croplan Genetics 8308	0.3	----	2.3
Jackson	3.2	1.7	3.8
McCormick	0.5	0.3	1.8
Pat	1.4	----	----
Pioneer 25R23	0.0	----	----
Pioneer 25R37	0.3	----	----
Pioneer 26R12	0.4	----	----
Pioneer 26R15	0.0	----	----
Pioneer 26R24	0.0	----	----
Pioneer 26R38	----	----	4.1
Pioneer 26R58	0.0	----	----
Pioneer 26R61	----	----	0.3
SS 520	0.7	----	----
SS 535	1.6	----	----
SS 550	0.0	----	----
SS 560	0.5	----	----
Tribute	0.0	0.0	0.5
UGA 931233-E17	0.8	0.6	2.3
USG 3209	0.0	0.8	1.7
USG 3592	0.0	0.0	0.2

**TABLE 15. LEAF BLOTCH RATINGS RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2003-2004.**  
**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	2.0	----	1.2
AGS 2485	2.4	----	1.2
AR 910-9-1	2.3	----	----
Coker 9152	3.1	----	----
Coker 9184	2.0	----	----
Coker 9295	2.4	----	----
Coker 9375	2.3	----	----
Croplan Genetics 514W	1.8	----	1.3
Croplan Genetics 8308	2.7	----	1.7
Jackson	2.1	1.1	1.8
McCormick	1.8	1.3	1.3
Pat	2.2	----	----
Pioneer 25R23	1.7	----	----
Pioneer 25R37	1.7	----	----
Pioneer 26R12	2.3	----	----
Pioneer 26R15	1.7	----	----
Pioneer 26R24	2.0	----	----
Pioneer 26R38	----	----	1.5
Pioneer 26R58	1.8	----	----
Pioneer 26R61	----	----	0.8
SS 520	2.7	----	----
SS 535	2.0	----	----
SS 550	1.9	----	----
SS 560	2.0	----	----
Tribute	1.8	1.3	1.5
UGA 931233-E17	2.0	1.2	1.8
USG 3209	2.2	1.1	0.8
USG 3592	2.3	1.3	1.6

**TABLE 16. STRIPE RUST RATINGS RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2003-2004.**  
**PLOTS 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	----	0.0
AGS 2485	0.0	----	0.0
AR 910-9-1	0.0	----	----
Coker 9152	0.0	----	----
Coker 9184	0.0	----	----
Coker 9295	0.0	----	----
Coker 9375	0.0	----	----
Croplan Genetics 514W	0.0	----	0.0
Croplan Genetics 8308	0.0	----	0.0
Jackson	0.0	0.0	
McCormick	0.0	0.0	
Pat	0.0	----	----
Pioneer 25R23	0.0	----	----
Pioneer 25R37	0.0	----	----
Pioneer 26R12	0.0	----	----
Pioneer 26R15	0.0	----	----
Pioneer 26R24	0.0	----	----
Pioneer 26R38	----	----	0.0
Pioneer 26R58	0.0	----	----
Pioneer 26R61	----	----	0.0
SS 520	0.5	----	----
SS 535	0.0	----	----
SS 550	0.0	----	----
SS 560	0.0	----	----
Tribute	0.3	0.0	
UGA 931233-E17	0.0	0.0	
USG 3209	0.0	0.0	
USG 3592	0.0	0.0	



**TABLE 17. POWDERY MILDEW RATINGS RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2003-2004. PLOTS 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	----	0.0
AGS 2485	0.0	----	0.0
AR 910-9-1	0.7	----	----
Coker 9152	0.5	----	----
Coker 9184	0.0	----	----
Coker 9295	0.0	----	----
Coker 9375	0.0	----	----
Croplan Genetics 514W	0.0	----	0.0
Croplan Genetics 8308	0.0	----	0.2
Jackson	0.2	0.0	0.0
McCormick	0.5	0.0	0.0
Pat	1.0	----	----
Pioneer 25R23	0.8	----	----
Pioneer 25R37	0.0	----	----
Pioneer 26R12	0.0	----	----
Pioneer 26R15	0.0	----	----
Pioneer 26R24	0.0	----	----
Pioneer 26R38	----	----	0.0
Pioneer 26R58	0.5	----	----
Pioneer 26R61	----	----	0.3
SS 520	0.0	----	----
SS 535	0.0	----	----
SS 550	0.0	----	----
SS 560	0.0	----	----
Tribute	0.0	0.0	0.0
UGA 931233-E17	0.0	0.0	0.0
USG 3209	0.0	0.0	0.4
USG 3592	0.0	0.0	0.0

TABLE 18. DISEASE RATINGS RATINGS FOR OAT VARIETIES IN ALABAMA, 2003-2004.

Brand-variety	Helminthosporium leaf spot <sup>†</sup>	Crown rust	Barley yellow dwarf <sup>‡</sup>
<b><u>Northern Alabama</u></b>			
FL 9708-P37	0.3	0.0	17.5
Harrison	0.2	0.0	23.3
Horizon 314	0.7	0.0	33.3
Horizon 474	0.2	0.0	15.8
<b><u>Central Alabama</u></b>			
FL 9708-P37	0.1	0.0	18.9
Harrison	0.2	0.0	31.8
Horizon 314	0.6	0.0	36.1
Horizon 474	0.2	0.0	25.3
<b><u>Southern Alabama</u></b>			
FL 9708-P37	0.7	0.0	44.2
Harrison	0.6	0.0	60.0
Horizon 314	0.9	0.3	64.2
Horizon 474	0.7	0.0	67.5

<sup>†</sup> 0-10 scale: 0 = no disease, 10 = severe disease.

<sup>‡</sup> Percent symptomatic plants

TABLE 19. DISEASE RATINGS RATINGS FOR TRITICALE VARIETIES IN ALABAMA, 2003-2004.

Brand-variety	Leaf blotch <sup>†</sup>	Leaf rust <sup>†</sup>	Barley yellow dwarf <sup>‡</sup>
<b>Northern Alabama</b>			
FL91142-A19	2.3	0.0	35.8
FL93078-Y18	2.7	0.0	51.7
FL94128-Y1-A8	2.5	0.0	40.8
Trical 314	3.2	0.0	58.3
Trical 498	2.8	0.0	46.7
<b>Central Alabama</b>			
FL91142-A19	0.8	0.8	23.3
FL93078-Y18	1.2	1.2	19.6
FL94128-Y1-A8	1.3	1.3	30.6
Trical 314	1.1	1.1	9.7
Trical 498	1.2	1.2	15.0
<b>Southern Alabama</b>			
FL91142-A19	2.0	1.1	35.6
FL93078-Y18	2.2	0.0	52.8
FL94128-Y1-A8	1.8	1.4	57.2
Trical 314	2.0	0.0	44.4
Trical 498	1.8	3.1	65.6

<sup>†</sup> 0-10 scale: 0 = no disease, 10 = severe disease.

<sup>‡</sup> Percent symptomatic plants

TABLE 20. DISEASE RATINGS RATINGS FOR BARLEY VARIETIES IN ALABAMA, 2003-2004.

Brand-variety	Septoria blotch <sup>†</sup>	Spot blotch <sup>†</sup>	Net blotch <sup>†</sup>	Barley yellow dwarf <sup>‡</sup>
Callao	1.3	2.2	3.7	82.5
Doyce	2.0	3.3	4.0	75.8
Nomini	1.3	2.3	3.0	60.8
Price	1.3	2.0	2.7	71.7
Thoroughbred	1.3	2.5	3.2	57.5

<sup>†</sup> 0-10 scale: 0 = no disease, 10 = severe disease.

<sup>‡</sup> Percent symptomatic plants

**SOURCES OF SEED****WHEAT**

AGS 2000, AGS 2485	AgSouth Genetics Albany, Georgia
Pat, AR 910-9-1*	University of Arkansas Fayetteville, Arkansas
GA 931233-E17*, 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 8308,	Croplan Genetics Midland City, Alabama
SS-520, SS-535, SS-550, SS-560	Southern States Coop. Richmond, Virginia
USG 3209 USG 3592 (formerly GA 931241E16)	UniSouth Genetics, Inc. Nashville, Tennessee
Tribute	Royster-Clark, Inc. Washington C.H., Ohio

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

Callao, Nomini, Price  
Thoroughbred (formerly VA 97B-388)  
Doyce (formerly VA00H-137)

Virginia Polytechnic Inst.  
Blacksburg, Virginia

**TRITICALE**

Trical 314, Trical 498

Resource Seeds, Inc.  
Union, Kentucky

FL 91142-A19\*  
FL 94128-Y1-A8\*  
FL 93078-Y18\*

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

**OAT**

Horizon 314, Horizon 474  
FL 9708-937\*

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

Harrison

Arkansas County Seed  
Stuttgart, Arkansas

\* Experimental line; not yet commercially available.