

*Performance
of Small Grain
Varieties for
Grain in
Alabama,
2009-10*

*Agronomy and Soils Departmental Series No. 309
Alabama Agricultural Experiment Station
William Batchelor, Director
Auburn University, Auburn, Alabama,
August 2010*

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

TABLE OF CONTENTS

ACKNOWLEDGEMENTS	3
INTRODUCTION	4
PROCEDURE	4
DATA EXPLANATION	4
DISCUSSION	5
Planting and harvesting dates	6
North Alabama Regional Wheat Averages	7
Tennessee Valley Research and Extension Center, Belle Mina	8
Sand Mountain Research and Extension Center, Crossville	9
Central Alabama Regional Wheat Averages	10
Prattville Experiment Field, Prattville	11
E.V. Smith Research Center, Plant Breeding Unit, Tallassee	12
South Alabama Regional Wheat Averages	13
Brewton Experiment Field, Brewton	14
Wiregrass Research and Extension Center, Headland	15
Gulf Coast Research and Extension Center, Fairhope.	16
North Alabama Regional and Location Triticale Averages	17
Central Alabama Regional and Location Triticale Averages	18
South Alabama Regional and Location Triticale Averages	19
North Alabama Regional and Location Barley Averages	20
Disease ratings for Wheat	21
Disease ratings for Triticale	26
Disease ratings for Barley	26
SEED SOURCES	27

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, Director

Sand Mountain Research and Extension Center, Crossville.....J. Treadaway Ducar, Act. Director

Central Alabama

Black Belt Research and Extension Center, Marion JunctionJ.L. Holliman, Director

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

E.V. Smith Research Center, Plant Breeding Unit, TallasseeS.P. Nightengale, Assoc. Director

Southern Alabama

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

Gulf Coast Research and Extension Center, Fairhope.....M.D. Pegues, Act. Director
J.R. Jones, Assoc. Director

Wiregrass Research and Extension Center, Headland.....L.W. Wells, Director
B.E. Gamble, Assoc. Director

THE 2010 ALABAMA PERFORMANCE COMPARISON OF SMALL GRAIN VARIETIES

K.M. Glass, E. van Santen, and K.B. Burch

Advisor, Natl. Res. Prog. and Professor, Dept. of Agronomy and Soils and Research Associate, Dept. of Entomology and Plant Pathology, Auburn University, AL 36849.

INTRODUCTION

The large number of commercially available varieties of wheat, oat, 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.

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 2009 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: A forage test was not conducted during the 2009-2010 crop year.

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 2009-2010 variety tests for wheat, triticale and barley are summarized by region in Tables 16 - 21. Katherine B. Burch, Research Associate, Department of Entomology and Plant Pathology, rated disease at 3 locations in the southern region, 2 locations in the central region and only at the Sand Mountain Research and Extension Center in the northern region. Onset of leaf rust on wheat was much later than last year. At the time of mid-season ratings on wheat, incidence of leaf rust was much lower across the southern and central regions than last year and was not observed on any of the cultivars in the northern region. Incidence of Septoria leaf blotch was observed at low levels, similar to last year. Low incidence of stripe rust was observed at Wiregrass Research and Extension Center. Neither stem rust nor powdery mildew was observed on any cultivars this year. In the northern region, incidence and severity of Fusarium head blight (scab)

were similar to those observed last year. On triticale, low levels of leaf blotch were detected throughout the state and leaf rust was observed on two varieties at the Wiregrass Research and Extension Center. 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 although incidence was slightly to moderately lower than observed last year.

DISCUSSION

Growing conditions and variety performance often vary among locations and years. In the 2009-10 growing season, wet conditions along with cooler than normal fall and winter temperatures affected yields at some locations. The disease at Sand Mountain showed late in the season and thus did not affect yields.

TABLE 1. LOCATION, PLANTING AND HARVESTING DATES FOR THE 2009-10 SMALL GRAIN TESTS

Location	Date planted	Date harvested
<u>Northern Alabama</u>		
Tennessee Valley Res. & Ext. Ctr. (Belle Mina)		
Small grain - forage only	no forage test was conducted	
Small grain - grain only	November 9	June 21
Sand Mountain Res. & Ext. Ctr. (Crossville)		
Small grain - forage only	no forage test was conducted	
Small grain - grain only	November 6	June 8
<u>Central Alabama</u>		
Black Belt Res. & Ext. Ctr. (Marion Junction)		
Small grain - forage only	no forage test was conducted	
Small grain - grain only	not planted	
E.V. Smith Res. Ctr., Plant Breeding Unit (Tallassee)		
Small grain - forage only	no forage test was conducted	
Small grain - grain only	November 5	June 7
Prattville Research Field (Prattville)		
Small grain - forage only	no forage test was conducted	
Small grain - grain only	November 16	June 8
<u>Southern Alabama</u>		
Wiregrass Res. & Ext. Ctr. (Headland)		
Small grain - forage only	no forage test was conducted	
Small grain - grain only	November 19	May 28
Brewton Research Field (Brewton)		
Small grain - forage only	no forage test was conducted	
Small grain - grain only	November 18	June 10
Gulf Coast Res. & Ext. Ctr. (Fairhope)		
Small grain - forage only	no forage test was conducted	
Small grain - grain only	November 19	June 4

TABLE 2. NORTH ALABAMA REGIONAL AVERAGES OF WHEAT VARIETY PERFORMANCE

Brand-Variety	2010		2009-2010	2008-2010
	Test wt	Avg.	Avg.	Avg.
	lbs/bu	-----	bu/acre -----	-----
SS 520	54.2	93	79	76
AGS 2060	56.2	82	80	75
Jamestown	56.9	88	78	74
SS 8308	53.7	80	75	71
SS 8641	50.1	73	73	70
Progeny 117	54.8	84	70	69
Progeny 185	54.0	85	71	69
Coker 9553	54.2	77	72	68
USG 3209	54.2	82	71	67
Terral LA 841	49.8	81	72	67
SS 8404	54.1	84	70	67
Coker 9804	51.5	77	69	67
Magnolia	53.3	70	63	60
Progeny 166	54.3	79	62	60
GA 991209-6E33	54.2	83	76	
Oglethorpe	53.9	85	75	
Merl	54.3	81	73	
GA 991336-6E9	52.6	80	73	
AGS 2035	53.1	79	73	
USG 3555	53.3	78	72	
Terral TV 8558	52.9	81	70	
Terral TV 8589	52.6	78	68	
Baldwin	53.9	77	67	
JGL Exp 72562	51.3	88		
Progeny 125	53.3	87		
Oakes	55.8	87		
USG 3452	54.1	85		
Terral TVX 8581	55.5	84		
USG 3409	52.9	84		
USG 3438	51.7	84		
JGL Exp 60172	52.1	83		
Coker D05*6441	55.4	83		
Terral LA 821	53.9	83		
Terral TVX 8861	51.9	83		
USG 3201	55.3	83		
Coker B040798	52.7	81		
JGL Exp 51585	52.6	81		
GA 031238-7E34	52.3	79		
Baretta	52.6	77		
Branson	51.9	76		
GA 001170-7E26	53.5	69		
Test Mean		81	72	69
C.V.(%)		7	14	13
LSD(0.10)		4	5	4

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

Brand-Variety	2010		2009-2010	2008-2010
	Test wt	Avg.	Avg.	Avg.
	lbs/bu	----- bu/acre -----		
AGS 2060	56.2	51	66	70
SS 520	54.2	60	58	67
Progeny 117	54.8	56	58	67
Progeny 185	54.0	57	61	66
Jamestown	56.9	61	58	65
SS 8308	53.7	49	59	63
SS 8404	54.1	49	53	61
Coker 9553	54.2	51	55	60
SS 8641	50.1	36	53	60
Coker 9804	51.5	50	53	59
Terral LA 841	49.8	45	53	59
Magnolia	53.3	47	54	58
Progeny 166	54.3	55	53	58
USG 3209	54.2	51	50	56
GA 991209-6E33	54.2	51	61	
Oglethorpe	53.9	52	61	
Terral TV 8558	52.9	55	60	
GA 991336-6E9	52.6	45	58	
AGS 2035	53.1	46	57	
USG 3555	53.3	52	57	
Merl	54.3	52	55	
Terral TV 8589	52.6	45	52	
Baldwin	53.9	46	51	
Terral TVX 8581	55.5	60		
USG 3438	51.7	60		
USG 3452	54.1	59		
Oakes	55.8	58		
JGL Exp 60172	52.1	58		
Progeny 125	53.3	58		
JGL Exp 72562	51.3	57		
USG 3409	52.9	56		
Coker D05*6441	55.4	56		
JGL Exp 51585	52.6	54		
Terral LA 821	53.9	54		
USG 3201	55.3	53		
Terral TVX 8861	51.9	51		
Baretta	52.6	50		
Coker B040798	52.7	48		
Branson	51.9	48		
GA 031238-7E34	52.3	46		
GA 001170-7E26	53.5	30		
Test Mean		52	56	62
C.V.(%)		7	10	9
LSD(0.10)		4	4	3

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

Brand-Variety	2010		2009-2010	2008-2010
	Test wt	Avg.	Avg.	Avg.
	lbs/bu	-----	bu/acre -----	-----
SS 520	55.8	125	100	84
Jamestown	59.8	115	98	83
SS 8641	57.3	110	93	81
AGS 2060	61.4	113	94	81
USG 3209	56.3	113	93	79
SS 8308	59.3	111	92	79
Coker 9553	58.5	102	90	77
Terral LA 841	55.6	116	90	76
Coker 9804	56.9	103	85	75
SS 8404	60.2	120	88	73
Progeny 117	58.2	113	81	72
Progeny 185	57.8	114	81	71
Magnolia	57.5	93	72	63
Progeny 166	57.1	102	71	62
Merl	59.9	110	92	
GA 991209-6E33	59.3	116	90	
AGS 2035	57.4	111	89	
Oglethorpe	56.1	118	89	
GA 991336-6E9	58.3	115	88	
USG 3555	56.5	105	88	
Terral TV 8589	55.7	110	83	
Baldwin	57.6	108	83	
Terral TV 8558	56.2	106	79	
JGL Exp 72562	54.9	120		
Progeny 125	56.3	116		
Oakes	59.0	115		
Terral TVX 8861	57.9	114		
Coker B040798	56.2	114		
GA 031238-7E34	56.7	112		
Terral LA 821	57.9	112		
USG 3409	57.1	112		
USG 3201	59.1	112		
USG 3452	56.1	111		
Coker D05*6441	58.3	110		
JGL Exp 60172	55.6	109		
Terral TVX 8581	58.0	108		
GA 001170-7E26	59.0	108		
JGL Exp 51585	55.8	108		
USG 3438	55.5	107		
Branson	56.6	105		
Baretta	55.9	103		
Test Mean		111	87	75
C.V.(%)		6	13	12
LSD(0.10)		7	9	5

TABLE 5. CENTRAL ALABAMA REGIONAL AVERAGES OF WHEAT VARIETY PERFORMANCE

Brand-Variety	2010		2009-2010	2008-2010
	Test wt	Avg.	Avg.	Avg.
	lbs/bu	-----	bu/acre -----	
Jamestown	53.4	54	57	68
AGS 2060	54.9	53	54	66
Terral LA 841	50.5	57	53	65
AGS 2035	51.7	55	64	
Baldwin	51.6	56	63	
Terral TV 8558	52.6	55	62	
USG 3555	51.1	54	61	
Progeny 185	51.3	51	61	
GA 991336-6E9	51.8	49	60	
GA 991209-6E33	53.0	55	57	
Terral TV 8589	50.2	50	57	
Merl	54.2	50	53	
Progeny 166	52.0	46	53	
Progeny 117	51.7	48	51	
USG 3209	51.7	54	50	
AGS 2026	50.4	48	48	
Oglethorpe	51.5	47	46	
JGL Exp 72562	49.8	62		
Terral TVX 8861	52.1	61		
JGL Exp 60172	49.7	60		
GA 031238-7E34	52.2	60		
USG 3438	49.9	58		
USG 3201	52.5	57		
JGL Exp 51585	51.5	56		
Terral LA 821	52.1	56		
USG 3409	52.4	55		
GA 001170-7E26	52.5	53		
USG 3452	52.6	48		
Terral TVX 8581	51.7	46		
Progeny 125	50.6	42		
Test Mean		53	56	66
C.V.(%)		11	23	15
LSD(0.10)		4	7	4

TABLE 6. AVERAGES OF WHEAT VARIETY PERFORMANCE PRATTVILLE EXPERIMENT FIELD.

Brand-Variety	2010		2009-2010	2008-2010
	Test wt	Avg.	Avg.	Avg.
	lbs/bu		bu/acre	
Jamestown	55.6	51	63	70
AGS 2060	57.5	56	61	68
Terral LA 841	54.6	56	63	68
AGS 2035	55.2	56	71	
GA 991209-6E33	55.5	57	71	
GA 991336-6E9	55.3	48	68	
Baldwin	56.4	62	66	
AGS 2026	54.0	43	58	
Progeny 185	54.6	50	56	
Progeny 117	54.4	46	56	
Terral TV 8558	54.1	51	56	
USG 3555	53.9	55	55	
Oglethorpe	54.6	39	54	
Terral TV 8589	52.4	51	53	
USG 3209	55.3	52	51	
Merl	55.8	48	49	
Progeny 166	54.2	43	48	
JGL Exp 72562	53.3	67		
JGL Exp 60172	53.9	66		
Terral TVX 8861	55.8	65		
USG 3438	53.6	61		
USG 3201	55.9	60		
JGL Exp 51585	55.1	57		
GA 031238-7E34	54.8	57		
Terral LA 821	54.9	55		
GA 001170-7E26	57.7	55		
USG 3409	55.0	52		
USG 3452	53.6	43		
Terral TVX 8581	54.0	43		
Progeny 125	53.7	32		
Test Mean		53	59	69
C.V.(%)		12	12	18
LSD(0.10)		7	5	8

TABLE 7. AVERAGES OF WHEAT VARIETY PERFORMANCE PLANT BREEDING UNIT, TALLASSEE.

Brand-Variety	2010		2009-2010	2008-2010
	Test wt	Avg.	Avg.	Avg.
	lbs/bu	-----	bu/acre -----	
Jamestown	53.4	57	51	66
AGS 2060	54.9	51	46	65
Terral LA 841	50.5	58	42	62
Terral TV 8558	52.6	58	69	
USG 3555	51.1	53	67	
Progeny 185	51.3	52	65	
Baldwin	51.6	51	61	
Terral TV 8589	50.2	49	60	
Merl	54.2	53	58	
Progeny 166	52.0	48	57	
AGS 2035	51.7	54	56	
GA 991336-6E9	51.8	50	52	
USG 3209	51.7	56	48	
Progeny 117	51.7	51	46	
GA 991209-6E33	53.0	52	42	
AGS 2026	50.4	53	38	
Oglethorpe	51.5	54	38	
GA 031238-7E34	52.2	63		
USG 3409	52.4	58		
JGL Exp 72562	49.8	58		
Terral TVX 8861	52.1	57		
Terral LA 821	52.1	57		
USG 3438	49.9	56		
JGL Exp 51585	51.5	55		
JGL Exp 60172	49.7	55		
USG 3201	52.5	54		
USG 3452	52.6	53		
GA 001170-7E26	52.5	52		
Progeny 125	50.6	52		
Terral TVX 8581	51.7	50		
Test Mean		54	53	64
C.V.(%)		6	13	10
LSD(0.10)		3	5	4

TABLE 8. SOUTH ALABAMA REGIONAL AVERAGES OF WHEAT VARIETY PERFORMANCE

Brand-Variety	2010		2009-2010	2008-2010
	Test wt	Avg.	Avg.	Avg.
	lbs/bu		bu/acre	
AGS 2060	56.9	68	63	64
Oglethorpe	50.4	70	61	61
Terral LA 841	52.2	71	59	60
Magnolia	52.8	59	52	56
Jamestown	52.5	66	53	55
AGS 2035	54.1	73	68	
Baldwin	54.3	67	65	
GA 991336-6E9	54.8	69	63	
AGS 2026	51.6	69	60	
GA 991209-6E33	53.7	59	60	
Progeny 166	54.2	64	47	
Terral TV 8589	52.1	66	47	
Terral TV 8558	52.9	70	47	
Progeny 117	54.1	71	46	
Coker Panola	52.8	68	42	
Progeny 185	54.2	65	40	
Merl	55.2	63	37	
McNair 701	52.3	54	36	
GA 031238-7E34	53.8	74		
Terral TVX 8861	54.2	71		
Terral LA 821	54.2	70		
GA 001170-7E26	55.3	69		
Coker 9700	52.5	68		
USG 3209	53.7	68		
JGL Exp 72562	49.6	68		
Coker D05*6441	55.9	67		
Terral TVX 8581	53.9	67		
JGL Exp 60172	52.1	65		
Progeny 125	50.4	64		
USG 3555	53.3	63		
JGL Exp 51585	52.0	62		
Test Mean		67	53	59
C.V.(%)		12	24	13
LSD(0.10)		5	5	3

TABLE 9. AVERAGES OF WHEAT VARIETY PERFORMANCE AT BREWTON EXPERIMENT FIELD.

Brand-Variety	2010		2009-2010	2008-2010
	Test wt	Avg.	Avg.	Avg.
	lbs/bu	-----	bu/acre -----	
AGS 2060	56.9	44	60	56
Oglethorpe	55.7	42	53	52
Magnolia	55.4	40	53	51
Terral LA 841	55.3	46	57	51
Jamestown	56.1	42	49	46
AGS 2035	55.3	44	60	
Baldwin	56.2	47	57	
GA 991209-6E33	55.5	38	56	
GA 991336-6E9	54.8	44	54	
AGS 2026	55.6	43	53	
Progeny 117	54.1	44	43	
Progeny 166	54.2	41	42	
Terral TV 8589	52.9	43	41	
Coker Panola	55.0	44	39	
Terral TV 8558	54.0	48	39	
Progeny 185	54.6	43	37	
Merl	56.7	46	33	
McNair 701	52.3	32	29	
JGL Exp 72562	51.6	56		
Terral TVX 8861	54.9	55		
JGL Exp 51585	54.2	49		
JGL Exp 60172	52.1	47		
GA 031238-7E34	54.5	45		
Coker D05*6441	56.0	43		
Terral TVX 8581	53.9	43		
USG 3209	54.7	42		
Terral LA 821	55.7	42		
GA 001170-7E26	56.9	41		
Coker 9700	55.3	41		
Progeny 125	52.7	38		
USG 3555	53.3	36		
Test Mean		43	47	51
C.V.(%)		10	15	11
LSD(0.10)		5	5	4

TABLE 10. AVERAGES OF WHEAT VARIETY PERFORMANCE AT WIREGRASS RESEARCH AND EXTENSION CENTER, HEADLAND.

Brand-Variety	2010		2009-2010	2008-2010
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg. -----
Oglethorpe	56.8	73	52	58
AGS 2060	59.2	71	49	58
Terral LA 841	55.1	69	44	53
Jamestown	57.8	68	42	51
Magnolia	54.8	59	37	49
GA 991336-6E9	56.9	71	56	
GA 991209-6E33	58.9	72	52	
Baldwin	54.9	72	52	
AGS 2035	57.3	71	52	
AGS 2026	56.1	72	51	
Terral TV 8558	55.2	71	43	
Terral TV 8589	54.1	67	42	
Progeny 166	54.6	64	39	
Progeny 185	57.0	64	34	
Progeny 117	56.5	67	33	
Coker Panola	54.7	65	32	
Merl	58.1	60	30	
McNair 701	53.3	48	27	
GA 031238-7E34	55.1	74		
Terral LA 821	56.0	73		
Progeny 125	56.3	73		
Coker 9700	57.2	70		
USG 3555	54.9	67		
GA 001170-7E26	58.5	66		
USG 3209	54.9	66		
Coker D05*6441	56.7	64		
Terral TVX 8581	56.4	64		
Terral TVX 8861	54.2	63		
JGL Exp 72562	49.6	62		
JGL Exp 60172	53.5	61		
JGL Exp 51585	52.1	55		
Test Mean		66	43	54
C.V.(%)		8	14	16
LSD(0.10)		6	4	5

TABLE 11. AVERAGES OF WHEAT VARIETY PERFORMANCE AT GULF COAST RESEARCH AND EXTENSION CENTER, FAIRHOPE.

Brand-Variety	2010		2009-2010	2008-2010
	Test wt	Avg.	Avg.	Avg.
	lbs/bu	-----	bu/acre	-----
AGS 2060	57.2	90	81	79
Terral LA 841	52.2	98	77	76
Oglethorpe	50.4	94	78	74
Magnolia	52.8	78	66	68
Jamestown	52.5	88	68	68
AGS 2035	54.1	105	92	
Baldwin	54.3	81	84	
GA 991336-6E9	54.8	92	79	
AGS 2026	51.6	92	77	
GA 991209-6E33	53.7	66	73	
Progeny 117	54.4	101	63	
Progeny 166	54.2	87	61	
Terral TV 8589	52.1	87	58	
Terral TV 8558	52.9	91	58	
Coker Panola	52.8	93	53	
McNair 701	52.4	83	52	
Progeny 185	54.2	87	50	
Merl	55.2	82	49	
GA 031238-7E34	53.8	104		
GA 001170-7E26	55.3	101		
USG 3209	53.7	97		
Terral LA 821	54.2	95		
Coker D05*6441	55.9	95		
Coker 9700	52.5	95		
Terral TVX 8581	54.3	94		
Terral TVX 8861	54.6	94		
JGL Exp 60172	53.0	89		
JGL Exp 72562	52.2	86		
USG 3555	54.0	86		
JGL Exp 51585	52.0	84		
Progeny 125	50.4	81		
Test Mean		90	68	73
C.V.(%)		13	16	10
LSD(0.10)		12	8	5

TABLE 12. NORTH ALABAMA REGIONAL AND LOCATION AVERAGES OF TRITICALE VARIETY PERFORMANCE

Brand-Variety	2010		2009-2010	2008-2010
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
<u>Regional Averages</u>				
RSI 342	45.9	73	76	81
Trical 336	45.3	55	51	57
Trical 2700	46.4	59	47	
Test Mean		62	58	69
C.V.(%)		16	21	18
LSD(0.10)		8	7	5
<u>Tennessee Valley Research and Extension Center, Belle Mina, AL</u>				
RSI 342	45.9	39	59	78
Trical 336	46.7	33	41	52
Trical 2700	46.4	33	29	
Test Mean		35	43	65
C.V.(%)		15	27	17
LSD(0.10)		6	9	7
<u>Sand Mountain Research and Extension Center, Crossville, AL.</u>				
RSI 342	47.9	108	94	84
Trical 336	45.3	78	62	61
Trical 2700	48.2	85	64	
Test Mean		90	73	73
C.V.(%)		12	12	13
LSD(0.10)		13	7	6

TABLE 13. CENTRAL ALABAMA REGIONAL AND LOCATION AVERAGES OF TRITICALE VARIETY PERFORMANCE

Brand-Variety	2010		2009-2010	2008-2010
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
<u>Regional Averages</u>				
RSI 342	43.9	57	60	69
Trical 2700	45.2	54	45	
Trical 336	44.4	44	38	
Test Mean		52	48	69
C.V.(%)		13	18	8
LSD(0.10)		5	5	
<u>Prattville Experiment Field, Prattville, AL</u>				
RSI 342	48.2	64	77	83
Trical 2700	50.1	64	62	
Trical 336	50.4	57	55	
Test Mean		62	65	83
C.V.(%)		8	10	7
LSD(0.10)		5	5	
<u>Plant Breeding Unit, Tallassee, AL</u>				
RSI 342	43.9	50	44	56
Trical 2700	45.2	44	28	
Trical 336	44.4	32	21	
Test Mean		42	31	56
C.V.(%)		19	22	10
LSD(0.10)		9	5	

TABLE 14. SOUTH ALABAMA REGIONAL AND LOCATION AVERAGES OF TRITICALE VARIETY PERFORMANCE

Brand-Variety	2010		2009-2010	2008-2010
	Test wt lbs/bu	Avg. -----	Avg. bu/acre -----	Avg.
<u>Regional Averages</u>				
RSI 342	42.8	80	69	75
Trical 2700	43.3	65	48	
Trical 336	46.1	69	42	
Test Mean		71	53	75
C.V.(%)		16	24	1
LSD(0.10)		7	6	
<u>Brewton Experiment Field, Brewton, AL</u>				
RSI 342	48.2	53	61	69
Trical 336	47.5	49	36	
Trical 2700	45.6	38	34	
Test Mean		47	44	69
C.V.(%)		6	19	15
LSD(0.10)		3	6	
<u>Wiregrass Research and Extension Center, Headland, AL</u>				
RSI 342		84	57	71
Trical 2700		56	37	
Trical 336		62	33	
Test Mean		67	42	71
C.V.(%)		9	20	11
LSD(0.10)		7	7	
<u>Gulf Coast Research and Extension Center, Fairhope, AL</u>				
RSI 342	42.8	105	88	86
Trical 2700	43.3	100	72	
Trical 336	46.1	95	58	
Test Mean		100	73	86
C.V.(%)		19	19	12
LSD(0.10)		23	11	

TABLE 15. NORTH ALABAMA REGIONAL AND LOCATION AVERAGES OF BARLEY VARIETY PERFORMANCE

Brand-Variety	2010		2009-2010	2008-2010
	Test wt lbs/bu	Avg.	Avg. ----- bu/acre -----	Avg.
<u>Regional Averages</u>				
Thoroughbred	41.5	84	77	74
Eve	54.0	53	64	66
Dan	44.2	58	63	
Test Mean		65	68	70
C.V.(%)		11	23	24
LSD(0.10)		6	8	7
<u>Tennessee Valley Research and Extension Center, Belle Mina, AL</u>				
Eve	54.0	42	63	69
Thoroughbred	41.5	72	62	64
Dan	54.8	52	56	
Test Mean		55	60	66
C.V.(%)		9	18	22
LSD(0.10)		6	8	9
<u>Sand Mountain Research and Extension Center, Crossville, AL.</u>				
Thoroughbred	58.6	97	92	84
Eve	56.4	63	66	63
Dan	44.2	63	69	
Test Mean		74	75	73
C.V.(%)		13	15	10
LSD(0.10)		12	9	5

TABLE 16. LEAF BLOTCH RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2009-2010[†]

Brand-variety	Northern Alabama [‡]	Central Alabama	Southern Alabama
AGS 2026	-	2.0	1.1
AGS 2035	3.0	1.8	1.2
AGS 2060	2.3	1.2	0.9
Baldwin	3.0	2.0	0.7
Baretta	3.7	-	-
Branson	3.0	-	-
Coker 9553	3.7	-	-
Coker 9700	-	-	1.1
Coker 9804	3.7	-	-
Coker B040798	2.3	-	-
Coker D05*6441	3.3	-	1.2
Coker Panola	-	-	1.0
GA 001170-7E26	2.7	1.2	1.3
GA 031238-7E34	2.0	1.7	0.9
GA 991209-6E33	3.0	1.7	0.9
GA 991336-6E9	3.7	3.2	1.4
Jamestown	3.3	2.0	1.3
JGL Exp 51585	3.0	1.0	0.4
JGL Exp 60172	3.3	1.3	0.7
JGL Exp 72562	2.7	0.5	0.7
Magnolia	3.3	-	1.3
McNair 701	-	-	1.9
Merl	3.0	1.5	0.7
Oakes	3.0	-	-
Oglethorpe	4.0	2.2	1.1
Progeny 117	3.0	3.5	1.2
Progeny 125	4.3	3.0	2.2
Progeny 166	2.7	1.7	0.8
Progeny 185	2.7	1.5	1.0
SS 520	3.7	-	-
SS 8308	3.7	-	-
SS 8404	3.0	-	-
SS 8641	3.0	-	-
Terral LA 821	4.0	3.3	3.1
Terral LA 841	3.7	2.0	1.5
Terral TV 8558	3.7	1.2	1.3
Terral TV 8589	3.3	1.8	0.8
Terral TVX 8581	3.7	2.0	1.4
Terral TVX 8861	2.0	0.8	0.3
USG 3201	3.0	1.5	-
USG 3209	3.0	1.2	0.7
USG 3409	4.3	1.3	-
USG 3438	4.0	2.0	-
USG 3452	3.0	1.3	-
USG 3555	3.3	1.0	0.8

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

[‡]Only includes disease results from Sand Mountain Research and Extension Center.

TABLE 17. BARLEY YELLOW DWARF RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2009-2010[†]

Brand-variety	Northern	Central	Southern
	Alabama [‡]	Alabama	Alabama
AGS 2026	-	38.3	17.9
AGS 2035	20.0	15.0	12.2
AGS 2060	16.7	12.5	14.8
Baldwin	23.3	7.0	5.8
Baretta	56.7	-	-
Branson	16.7	-	-
Coker 9553	50.0	-	-
Coker 9700	-	-	16.3
Coker 9804	60.0	-	-
Coker B040798	26.7	-	-
Coker D05*6441	26.7	-	16.1
Coker Panola	-	-	6.2
GA 001170-7E26	36.7	13.3	10.7
GA 031238-7E34	60.0	37.5	11.7
GA 991209-6E33	33.3	11.7	6.3
GA 991336-6E9	50.0	29.2	9.7
Jamestown	50.0	25.0	18.9
JGL Exp 51585	43.3	9.2	5.6
JGL Exp 60172	53.3	11.8	4.7
JGL Exp 72562	26.7	6.0	4.3
Magnolia	73.3	-	17.2
McNair 701	-	-	28.9
Merl	26.7	18.5	6.3
Oakes	43.3	-	-
Oglethorpe	70.0	40.0	12.9
Progeny 117	30.0	20.5	7.8
Progeny 125	66.7	41.7	19.4
Progeny 166	53.3	9.3	7.9
Progeny 185	20.0	15.8	9.7
SS 520	63.3	-	-
SS 8308	53.3	-	-
SS 8404	23.3	-	-
SS 8641	53.3	-	-
Terral LA 821	60.0	36.7	29.4
Terral LA 841	63.3	21.7	19.4
Terral TV 8558	76.7	9.2	6.9
Terral TV 8589	46.7	16.7	8.3
Terral TVX 8581	36.7	17.5	12.2
Terral TVX 8861	23.3	8.3	4.1
USG 3201	46.7	11.7	-
USG 3209	20.0	11.7	10.0
USG 3409	80.0	7.0	-
USG 3438	56.7	14.3	-
USG 3452	33.3	6.8	-
USG 3555	20.0	15.0	5.2

[†] Percent symptomatic plants.

[‡] Only includes disease results from Sand Mountain Research and Extension Center.

TABLE 18. LEAF RUST RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2009-2010¹

Brand-variety	Northern Alabama [‡]	Central Alabama	Southern Alabama
AGS 2026	-	0	0
AGS 2035	0	0	0
AGS 2060	0	0	0
Baldwin	0	0	0
Baretta	0	-	-
Branson	0	-	-
Coker 9553	0	-	-
Coker 9700		-	0.1
Coker 9804	0	-	-
Coker B040798	0	-	-
Coker D05*6441	0	-	0
Coker Panola		-	1.0
GA 001170-7E26	0	0	0
GA 031238-7E34	0	0	0.4
GA 991209-6E33	0	0	0
GA 991336-6E9	0	0.5	0.3
Jamestown	0	0.3	0
JGL Exp 51585	0	0	0
JGL Exp 60172	0	0	0
JGL Exp 72562	0	0	0.6
Magnolia	0	-	0.2
McNair 701		-	2.1
Merl	0	0.2	0.5
Oakes	0	-	-
Oglethorpe	0	0	0
Progeny 117	0	0.3	1.0
Progeny 125	0	0.5	0.7
Progeny 166	0	0.3	0.8
Progeny 185	0	0.3	0.7
SS 520	0	-	-
SS 8308	0	-	-
SS 8404	0	-	-
SS 8641	0	-	-
Terral LA 821	0	0	0
Terral LA 841	0	0	0
Terral TV 8558	0	0.7	0.6
Terral TV 8589	0	0.8	0.8
Terral TVX 8581	0	1.2	0.5
Terral TVX 8861	0	0	0.7
USG 3201	0	0.3	-
USG 3209	0	0	0.1
USG 3409	0	0.5	-
USG 3438	0	0	-
USG 3452	0	1.0	-
USG 3555	0	0	0.3

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

[‡]Only includes disease results from Sand Mountain Research and Extension Center.

TABLE 19. FUSARIUM HEAD BLIGHT RATINGS FOR WHEAT VARIETIES IN ALABAMA, 2009-2010[†]

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
AGS 2026	-		
AGS 2035	2.7		
AGS 2060	1.3		
Baldwin	1.0		
Baretta	0.7		
Branson	1.7		
Coker 9553	1.0		
Coker 9700	-		
Coker 9804	1.7		
Coker B040798	2.3		
Coker D05*6441	1.3		
Coker Panola	-		
GA 001170-7E26	3.0		
GA 031238-7E34	1.0		
GA 991209-6E33	1.3		
GA 991336-6E9	1.7		
Jamestown	1.3		
JGL Exp 51585	2.3		
JGL Exp 60172	1.0		
JGL Exp 72562	1.3		
Magnolia	1.0		
McNair 701	-		
Merl	1.7		
Oakes	1.3		
Oglethorpe	1.7		
Progeny 117	1.0		
Progeny 125	1.3		
Progeny 166	1.0		
Progeny 185	1.0		
SS 520	1.7		
SS 8308	1.7		
SS 8404	1.3		
SS 8641	3.0		

continued

TABLE 19. CONTINUED

Brand-variety	Northern Alabama [‡]	Central Alabama	Southern Alabama
Terral LA 821	1.7		
Terral LA 841	2.7		
Terral TV 8558	1.0		
Terral TV 8589	1.0		
Terral TVX 8581	1.0		
Terral TVX 8861	1.7		
USG 3201	1.0		
USG 3209	2.7		
USG 3409	1.5		
USG 3438	2.0		
USG 3452	1.0		
USG 3555	1.3		

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

[‡]Only includes disease results from Sand Mountain Research and Extension Center.

TABLE 20. DISEASE RATINGS FOR TRITICALE VARIETIES IN ALABAMA, 2009-2010

Brand-variety	Leaf blotch [†]	Leaf rust [†]	Barley yellow dwarf [‡]
North			
RSI 342	3.7	0	50.0
Trical 2700	3.7	0	60.0
Trical 336	2.3	0	26.7
Central			
RSI 342	2.5	0	14.2
Trical 2700	1.3	0	10.0
Trical 336	0.8	0	10.8
South			
RSI 342	2.0	0.8	10.0
Trical 2700	1.2	0	8.5
Trical 336	1.0	0.8	11.1

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

[‡]Percent plants affected.

TABLE 21. DISEASE RATINGS FOR BARLEY VARIETIES IN NORTHERN ALABAMA, 2009-2010

Brand-variety	Spot blotch [†]	Net blotch [†]	Barley yellow dwarf [‡]
Dan	3.7	3.3	46.7
Eve	4.7	3.7	66.7
Thoroughbred	4.0	2.7	50.0

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

[‡]Percent plants affected.

SOURCES OF SEED

Cultivar	Source
Wheat	
AGS 2026, AGS 2035, AGS 2060	AGSouth Genetics Albany, Georgia
Coker 9553, Coker 9700, Coker 9804, Beretta, Branson, Magnolia, Oakes B040798*, D05*6441*	Syngenta Seeds, Inc. Bay, Arkansas
DynaGro Baldwin DynaGro Oglethorpe	Crop Production Services Dublin, Ohio
GA 991336-6E9*, GA 991209-6E33*, GA 001170-7E26*, GA 031238-7E34*,	University of Georgia Griffin, Georgia
Panola, McNair 701	Local Source
Progeny 117, Progeny 125, Progeny 166, Progeny 185	Progeny Ag Products Wynne, Arkansas
SS 520, SS 8308, SS 8404, SS 8641	Southern States Coop. Richmond, Virginia
Terral LA 821, Terral LA 841, Terral TV 8558, Terral TV 8589, Terral TVX 8581, Terral TV 8861	Terral Seed Co. Lake Providence, Louisiana
USG 3201, USG 3209, USG 3409, USG 3438, USG 3452, USG 3555	UniSouth Genetics, Inc. Nashville, Tennessee
Jamestown, Merl	Virginia Crop Improvement, Assn. Warsaw, Virginia
Triticale	
Trical 336, Trical 342, Trical 2700	Resource Seeds, Inc. Union, Kentucky
Barley	
Eve, Thoroughbred, Dan (formerly VA03H-61)	Virginia Crop Improvement, Assn. Warsaw, Virginia

* Experimental line; not yet commercially available.