



SMALL GRAIN



VARIETY REPORT 1981

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Introduction

Wheat, oats, barley, and rye are tested annually at several locations throughout Alabama by the Alabama Agricultural Experiment Station. These tests are designed to provide information on relative performance of varieties in given regions of the State and may not reflect absolute yielding potential. Entries selected for testing are primarily commercially available varieties; however, experimental lines from public and private sources which show potential for use in Alabama are also evaluated.

Small grain variety tests were conducted at 12 locations during the 1981-82 season. Most variety tests were planted during the months optimal for establishment and growth (late September to early November). Good stands were obtained at all locations. Dry soil-conditions-caused late planting of forage plots which limited early season forage production. Adequate rainfall and mild temperatures allowed varieties to produce large amounts of late-season forage at most locations this season. Severe winter temperatures caused stand loss at some locations. Stand loss was highest among oat varieties; however, stand loss also occurred among some wheat varieties in tests planted in late November. Winterkill estimates for varieties damaged by cold weather are presented in table 10. The environmental conditions during the spring of 1982 were generally favorable for grain production. Yields were relatively high in test plots and farmers' fields. However, cool-wet-cloudy weather, high disease incidence, or very dry conditions near grain maturity reduced yields at some locations.

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pounds of dry matter per acre. Two methods were used to harvest grain. At Winfield, the whole plot was cut by hand and threshed on a stationary thresher. All other locations were harvested with a small plot combine. The whole plot was harvested in either case. Grain samples were air dried, cleaned, weighed, and yield was expressed as bushels per acre. For conversion to bushels per acre the following values were used: wheat, 60 pounds per bushel; oats, 32 pounds per bushel; and barley, 48 pounds per bushel.

Growing conditions and varietal performance often vary among locations and years. Regional averages and multiple year averages are used to give a better estimate of varietal performance for different regions of the state. Where data are available, averages over several years are included. Individual location averages are given in this report to show the relative performance of varieties at individual locations in the 1981-82 season. Forage and grain yields and total feed production values for clipped plots, and grain yields for unclipped plots are shown in tables 1, 2, and 3. Grain yield, lodging, plant height, and date when one-tenth headed for clipped plots are given in tables 4, 5, and 6. Similar data for unclipped are given in tables 7, 8, and 9. Yields of varieties tested for forage only are given in tables 11, 12, and 13.

Lodging is measured as the percent of the stand that is broken or leaning and would likely be missed by a combine. Height is the average height of the plants measured from the soil surface to the tips of the heads. Date of one-tenth headed is the date when approximately 10 percent of the plants show fully emerged heads.

Disease ratings for wheat varieties are presented in Tables 14-22. Several diseases occur in small grains, but only those that are most common in

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Table 2. FORAGE AND GRAIN YIELDS PER ACRE OF SMALL GRAIN VARIETIES TESTED, 1900-1982

Variety	CENTRAL ALABAMA									
	Oven dry forage				Regional average yield of clipped plots				Total feed 1980-82 average	
	1982 Season totals				Forage			Grain	Clipped forage plus grain	Not clipped grain only
	Central Locations				1-yr 1982	2-yr 81-82	3-yr 80-82	3-yr 80-82		
Marion Junction	Camp Hill	Prattville	Tallassea	lb.	lb.	lb.	lb.	lb.	lb.	
Number of tests	lb. (1)	lb. (1)	lb. (1)	lb. (1)	lb. (4)	lb. (8)	lb. (12)	lb. (12)	lb. (12)	lb. (12)
WHEAT										
N.K.-McNair 1813	2,502	1,307	2,196	2,247	2,063	2,163	2,289	2,150	4,439	2,616
N.K.-McNair 1003	2,372	1,332	1,997	2,169	1,968	2,097	2,216	2,207	4,423	2,882
Roy	1,777	1,587	1,977	2,114	1,864	1,907	2,194	2,090	4,284	2,581
Coker 762	2,281	1,168	1,651	1,844	1,736	2,060	2,193	1,865	4,058	2,808
Southern Belle	1,892	1,218	1,591	1,738	1,610	1,705	1,868	2,155	4,023	2,675
Coker 747	1,229	1,118	1,487	1,391	1,306	1,522	1,622	2,217	3,839	2,513
Wakeland	1,900	1,007	1,673	1,843	1,606	2,150	2,325	1,414	3,739	1,993
Coker 68-15	1,554	1,170	1,633	1,805	1,540	1,800	2,040	1,696	3,736	2,426
Arthur	1,144	1,001	1,354	1,384	1,221	1,392	1,514	2,197	3,711	2,389
Arthur 71	1,354	885	1,475	1,681	1,349	1,389	1,485	2,035	3,520	2,296
Abe	906	605	1,060	1,559	1,052	1,095	1,260	2,131	3,391	2,239
Stacy	2,067	1,291	2,369	2,145	1,960	1,967				
Coker 916	1,557	1,405	1,999	1,854	1,704	1,760				
Florida 301	832	249	1,140	1,164	846	1,600				
Terral 800-22	2,375	1,612	2,008	1,736	1,933					
Omega 78	2,210	1,353	1,768	1,842	1,793					
N.K. 79810	2,283	1,233	1,735	1,880	1,783					
Hunter	1,967	1,036	1,741	1,698	1,611					
Doublecrop	1,429	1,058	1,559	1,657	1,426					
Pioneer 2550	1,171	883	1,327	1,546	1,232					
OATS										
Coker 227	598	200	917	2,098	953	1,341	1,549	2,473	4,022	2,304
Coker 716	891	201	1,085	1,603	945	1,166	1,317	2,540	3,865	2,571
Coker 80-20	716	62	760	2,017	889	1,527				
Florida 501	547	28	548	1,357	620					
Florida 7611-68	266	0	402	1,110	445					

Table 4. GRAIN YIELD PER ACRE AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN VARIETIES TESTED, 1900-82

Variety	1982 Yields northern locations			NORTHERN ALABAMA Regional average			Other characteristics 1982 Regional average		
	Belle Mina	Crossville	Winfield	1-yr 1982	2-yr 81-82	3-yr 80-82	Lodging	Height	1/10 Headed
	Bu. (1)	Bu. (1)	Bu. (1)	Bu. (3)	Bu. (6)	Bu. (9)	Pct. (3)	In. (3)	Date (3)
WHEAT									
Coker 916	53	13	43	36	50	44	1	30	4/16
Coker 747	53	19	30	34	45	42	2	30	4/21
Coker 762	57	16	36	36	45	39	2	29	4/23
Southern Belle	38	9	26	24	42	39	1	29	4/17
Roy	63	9	28	33	44	39	0	32	4/21
N.K.-McNair 1003	59	18	20	35	45	38	1	32	4/20
Coker 68-15	46	11	27	28	41	37	1	32	4/19
Arthur	42	9	24	25	37	36	1	32	4/20
Ga. 1123	33	13	31	26	36	31	3	41	4/21
N.K.-McNair 1813	32	10	30	24	35	30	0	32	4/18
Wakeland	47	11	21	26	34	29	2	40	4/23
Delta Queen	52	12	19	28	33	28	1	33	4/24
Stacy	42	17	27	28	38		3	35	4/19
Pioneer 2550	58	19	34	37			1	33	4/23
Hart	54	19	15	29			1	35	4/22
N.K. 79810	49	7	20	25			2	32	4/21
Arthur 71	30	8	20	22			1	32	4/21
OATS									
Coker 716	145	61	82	96	89	86	0	40	4/30
Coker 227	140	48	75	88	83	79	2	39	4/25
Coker 79-23	114	68	53	70	77	78	0	34	5/01
Coker 80-33	121	64	63	83	82		0	37	4/30
Florida 501	48	45	0	31			2	37	4/20
BARLEY									
Volbar	96	28	59	61	65	60	14	38	4/17
Keovee	85	21	37	48	51	48	26	35	4/21
Barsoy	54	26	20	33	47	47	54	30	4/08

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Table 6. GRAIN YIELD PER ACRE AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN VARIETIES TESTED, 1980-82

SOUTHERN ALABAMA

Variety	1982 Yields southern locations					Regional average			Other characteristics 1982 Regional average		
	Fairhope	Brewton	Monroeville	Headland	Camden	1-yr 1982	2-yr 81-82	3-yr 80-82	Lodging	Height	1/10 Headed
	Bu. (1)	Bu. (1)	Bu. (1)	Bu. (1)	Bu. (1)	Bu. (5)	Bu. (10)	Bu. (14)	Pct. (5)	In. (5)	Date (5)
WHEAT											
Coker 916	38	52	46	59	51	49	62	51	1	31	4/01
Coker 762	7	40	40	40	46	36	57	43	19	26	4/03
Coker 747	12	29	30	39	33	29	50	42	34	29	4/07
Holley	16	38	26	42	41	33	48	39	28	35	4/02
Southern Belle	13	35	28	33	36	29	49	39	13	28	4/02
Coker 68-15	13	30	26	29	31	26	47	36	1	31	4/04
Roy	16	22	20	31	30	24	40	34	1	30	4/05
N.K.-McNair 1003	5	28	23	17	25	20	44	33	31	29	4/02
N.K.-McNair 1013	6	22	22	19	33	20	43	32	19	27	3/31
Wakeland	8	16	25	26	28	20	40	31	30	35	4/06
Coker 797	6	11	24	22	34	19	36	25	18	26	3/31
Florida 301	6	26	36	37	40	29	44		3	30	4/03
Doublecrop	27	38	22	40	36	33			10	32	4/01
Pioneer 2550	9	31	35	45	40	32			23	32	4/11
Hunter	6	36	31	37	37	29			7	25	3/28
Terral 800-22	13	21	29	20	32	23			24	32	4/04
Arthur 71	10	20	11	26	27	19			26	31	4/07
OATS											
Coker 227	84	74	83	125	116	97	105	88	9	39	4/07
Coker 79-23	73	84	87	119	131	99	106		1	36	4/14
Coker 80-20	62	65	75	112	74	78	88		2	33	4/01
Norris 81-29	80	75	95	125	103	96			3	42	4/08
Florida 501	38	64	51	87	72	62			10	38	4/07
Florida 7611-68	61	62	59	91	36	62			2	33	4/02

Table B. GRAIN YIELD PER ACRE AND OTHER CHARACTERISTICS OF UNCLIPPED SMALL GRAIN VARIETIES TESTED, 1980-82

Variety	1982 Yields central locations				Regional average			Other characteristics 1982 Regional average		
	Marion Junction	Camp Hill	Prattville	Tallassee	1-yr 1982	2-yr 81-82	3-yr 80-82	Lodging	Height	1/10 Headed
	Bu. (1)	Bu. (1)	Bu. (1)	Bu. (1)	Bu. (4)	Bu. (8)	Bu. (12)	Pct. (4)	In. (4)	Date (4)
WHEAT										
N.K.-McNair 1003	50	50	39	50	52	62	40	12	35	4/00
Coker 762	65	50	46	70	60	61	40	30	33	4/07
Southern Belle	51	30	29	53	43	56	45	10	32	4/06
N.K.-McNair 1813	45	35	32	66	44	57	44	3	35	4/02
Roy	47	37	32	30	39	51	43	2	36	4/11
Coker 747	45	54	34	37	42	49	42	8	33	4/14
Coker 68-15	41	38	26	44	37	52	40	7	34	4/12
Arthur	44	26	20	36	33	44	40	5	37	4/14
Arthur 71	42	20	24	37	33	44	30	6	36	4/14
Omega 7B	52	25	39	50	44	50	30	0	34	4/04
Abe	39	34	20	27	32	42	37	9	34	4/14
Wakeland	49	32	30	33	36	44	33	44	40	4/09
Coker 916	59	29	50	60	52	64		1	33	4/05
Stacy	56	30	33	40	42	52		26	37	4/07
Florida 301	51	36	42	60	40	47		3	37	4/03
Hunter	59	47	53	70	59			0	29	3/27
Terral 800-22	62	56	40	60	59			18	35	4/07
N.K. 79810	56	51	36	50	40			2	36	4/10
Pioneer 2550	51	45	31	40	42			11	34	4/17
Doublecrop	51	15	24	46	34			3	36	4/05
OATS										
Coker 716	128	79	101	114	106	95	80	22	45	4/24
Coker 227	97	47	99	92	84	80	72	38	42	4/10
Coker 80-20	101	37	77	103	79	75		26	39	4/11
Florida 501	83	30	0	107	57			13	39	4/15
Florida 7611-60	64	36	0	102	51			4	40	4/10

Table 10. ESTIMATED PERCENT STAND LOSS OF SMALL GRAIN VARIETIES DUE TO WINTERKILL DURING THE 1981-82 SEASON

Variety	Northern Alabama		Central Alabama		Southern Alabama	
	Clipped %	Uncropped %	Clipped %	Uncropped %	Clipped %	Uncropped %
Number of tests	(3)		(4)		(5)	
WHEAT						
Arthur 71	0	0	0	0	4	0
Coker 797	-*	-	-	-	14	4
Florida 301	-	-	28	0	3	5
Holley	-	-	-	-	1	0
Hunter	-	-	2	0	1	3
N.K.-McNair 1813	0	0	0	0	5	4
Roy	0	0	8	0	0	0
OATS						
Coker 716	0	0	2	12	-	-
Coker 80-20	-	-	38	21	6	0
Coker 227	0	0	5	15	3	0
Coker 79-23	0	0	-	-	1	0
Florida 501	60	42	52	31	21	3
Florida 7611-60	-	-	70	38	28	6
Norris 81-29	-	-	-	-	6	0
BARLEY						
Barsoy	9	0	-	-	-	-
Volbar	2	0	-	-	-	-

*Dashes indicate that the variety was not tested in that region during the 1981-82 season.

Table 12. FORAGE YIELD OF SMALL GRAIN VARIETIES TESTED FOR FORAGE ONLY IN CENTRAL ALABAMA, 1980-82

Variety	Oven dry forage, lb. per acre				1-year regional average 1982	2-year regional average 1981-82 *	3-year regional average 1980-82
	Central locations, 1982						
	Marion Junction	Camp Hill	Tallassee	Prattville			
RYE							
Wintergrazer 70	4,261	3,523	7,553	5,490	5,207	5,539	5,728
Forager	3,894	3,386	6,923	4,240	4,611	4,966	5,290
AFC 20-20	4,170	4,143	6,542	5,113	4,992	4,951	4,599
Gurley's Grazer 2000	3,760	3,157	6,786	4,204	4,477	4,814	4,460
Wren's Abruzzi	3,497	2,304	8,660	3,811	4,568		
N.K.-McNair Vita Graze	3,588	2,621	5,938	3,909	4,014		
N.K.-SSI	3,230	2,317	6,632	3,243	3,856		
WHEAT							
Coker 747	3,673	3,288	4,109	3,725	3,698	4,351	4,488
N.K.-McNair 1003	3,722	3,004	4,680	3,448	3,714	4,135	4,284
Coker 68-15	3,237	2,774	3,572	2,806	3,117	4,006	4,155
N.K.-McNair 1813	4,312	2,375	4,090	3,483	3,565	4,139	4,011
Arthur	3,529	2,938	3,665	3,467	3,400	4,195	
Roy	3,578	2,614	4,236	3,179	3,402	4,061	
Coker 762	3,542	2,538	3,140	3,050	3,068		
Wakeland	3,248	2,306	2,940	2,377	2,718		
Florida 301	1,984	1,368	1,893	1,651	1,724		
OATS							
Coker 716	4,714	1,652	5,487	3,033	3,722	4,675	5,506
Coker 227	4,628	1,977	4,483	2,881	3,492	4,748	5,363
Florida 501	2,852	946	1,852	769	1,605		
BARLEY							
Barsby	3,369	2,306	4,520	3,562	3,439	4,193	4,286
Surry	2,829	1,785	4,535	2,944	3,024	3,666	4,092
TRITICALE							
AM 2851	4,205	2,470	5,223	4,129	4,007	4,355	
Rye/Triticale Blend	3,834	2,956	5,635	3,825	4,063		
Council	3,651	2,447	3,825	3,758	3,420		

Table 14. POWDERY MILDEW DISEASE RATINGS FOR WHEAT VARIETIES GROWN IN NORTHERN ALABAMA DURING 1981-82*

Variety	Locations		
	Belle Mina	Crossville	Winfield
Arthur	5	7	0
Arthur 71	4	9	0
Coker 68-15	0	7	0
Coker 916	0	4	0
Coker 747	0	6	0
Coker 762	0	0	0
Delta Queen	0	3	0
Ga. 1123	0	4	0
Hart	0	8	0
N.K.-McNair 1003	0	5	0
N.K.-McNair 1813	0	0	0
N.K. 79810	0	4	0
Pioneer 2550 -	0	6	0
Roy	0	8	0
Southern Belle	0	6	0
Stacy	0	0	0
Wakeland	0	0	0

*0-9 scale; 0 = no disease, 9 = severe disease.

Table 16. POWDERY MILDEW DISEASE RATINGS FOR WHEAT VARIETIES GROWN IN SOUTHERN ALABAMA DURING 1981-82*

Variety	Locations				
	Fairhope	Brewton	Monroeville	Headland	Camden
Arthur 71	-	7	0	-	7
Coker 68-15	0	8	7	7.5	7
Coker 916	4	4	3	2	2
Coker 747	-	7	-	4	6
Coker 762	0	4	0	0	0
Coker 797	-	4	0	6	0
Doublecrop	7	8	6	7	6.5
Florida 301	0	0	0	0	3
Holley	0	3	0	0	0
Hunter	0	0	0	0	0
N.K.-McNair 1003	-	-	-	0	4
N.K.-McNair 1813	0	-	4	-	3
Pioneer 2550	-	7	5	3	4
Roy	6	9	6	7	6
Southern Belle	5	7	5	6	5
Terral 800-22	0	-	0	-	0
Wakeland	0	6	4	7	5

*0-9 scale; 0 = no disease, 9 = severe disease.

Table 18. LEAF RUST DISEASE RATINGS FOR WHEAT VARIETIES GROWN IN CENTRAL ALABAMA DURING 1981-82*

Variety	Locations			
	Marion Junction	Camp Hill	Prattville	Tallassee
Abe	8	0	6	9
Arthur	8	0	5.5	7
Arthur 71	8	3	6	5
Coker 68-15	2	0	0	0
Coker 916	0	0	3	0
Coker 747	6	2	6	6.5
Coker 762	0	0	0	0
Doublecrop	0	0	0	0
Florida 301	0	0	0	0
Hunter	2	0	0	0
N.K.-McNair 1003	8	0	7	8.5
N.K.-McNair 1813	5	0	0	8.5
N.K. 79810	3	2	4	7.5
Omega 78	0	0	4.5	4
Pioneer 2550	2	0	0	0
Roy	2	0	4	6
Southern Belle	7	0	5	4
Stacy	7	0	5	8.5
Terral 800-22	3	3	7.5	9
Wakeland	0	3	0	7

*0-9 scale; 0 = no disease, 9 = severe disease.

Table 20. SEPTORIA BLOTCH DISEASE RATINGS FOR WHEAT VARIETIES GROWN IN NORTHERN ALABAMA DURING 1981-82*

Variety	Locations		
	Belle Mina	Crossville	Winfield
Arthur	7	5	8
Arthur 71	5	6	7
Coker 68-15	7	6	6
Coker 916	6	6	8
Coker 747	6	6	6
Coker 762	7	4	6
Delta Queen	4	4	7
Ga. 1123	5	5	7
Hart	6	4	7
N.K.-McNair 1003	3	4	8
N.K.-McNair 1813	7	5	9
N.K. 79810	6	4	8
Pioneer 2550	6	4	6
Roy	5	5	7
Southern Belle	7	6	9
Stacy	7	4	7
Wakeland	4	5	7

*0-9 scale; 0 = no disease, 9 = severe disease.

Table 22. SEPTORIA BLOTCH DISEASE RATINGS FOR WHEAT VARIETIES GROWN IN SOUTHERN ALABAMA DURING 1981-82*

Variety	Locations				
	Fairhope	Brewton	Monroeville	Headland	Camden
Arthur 71	-	3	3	2	4
Coker 68-15	5	5	5	4	3
Coker 916	2	4	2	2	2
Coker 747	-	4	3	3	3
Coker 762	5	4	3	6	2
Coker 797	8	7	7	8	5
Doublecrop	3	4	2	4	3
Florida 301	6	8	6	6	4
Holley	4	6	4	5	3
Hunter	7	7	5	5	4
N.K. McNair 1003	3	6	4	6	4
N.K. McNair 1813	4	8	5	7	3
Pioneer 2550	-	4	3	2	0
Roy	3	5	3	3	2
Southern Belle	4	5	5	3	2
Terral 800-22	5	-	3	4	2
Wakeland	4	4	3	6	2

*0-9 scale; 0 = no disease, 9 = severe disease.

VARIETIES RECOMMENDED FOR GRAIN ONLY

Recommendations are based on 3-year regional average yields of grain. Varieties are listed alphabetically. For disease ratings see tables 14-22. For lodging, plant height, and maturity ratings see tables 7, 8, and 9.

NORTHERN ALABAMA

WHEAT

Coker 68-15
Coker 747
Coker 762
Coker 916
N.K.-McNair 1003
N.K.-McNair 1813*
Roy
Southern Belle

Oats

Coker 227*
Coker 716

Barley

Barsoy
Volbar

CENTRAL ALABAMA

WHEAT

Arthur
Coker 68-15
Coker 747
Coker 762
N.K.-McNair 1003
N.K.-McNair 1813
Roy
Southern Belle

Oats

Coker 227*
Coker 716

SOUTHERN ALABAMA

WHEAT

Coker 68-15
Coker 747
Coker 762
Coker 916
Holley
N.K.-McNair 1003
Roy
Southern Belle

Oats

Coker 227

*If present trends continue, this variety will be removed from the recommended list for grain only next year in the region indicated.

SOURCES OF SEED

RYE

AFC 20-20-----	Alabama Farmers Coop., Decatur, Alabama
Gurley's Grazer 2000-----	Gurley's Inc., Selma, North Carolina
McNair Vita Graze, SSI-----	Northrup King Co., Laurinburg, North Carolina
Forager-----	Sun Rise, Inc., Auburn, Alabama
Wintergrazer 70-----	Pennington Seed Inc., Madison, Georgia
Wren's Abruzzi-----	Alabama Crop Improvement Assoc., Inc., Auburn, Alabama

WHEAT

Arthur, Wakeland-----	Alabama Crop Improvement Assoc., Inc., Auburn, Alabama
Abe, Arthur 71-----	Ag. Alumni Seed Imp. Assoc., Inc., Romney, Indiana
Coker (All Varieties)-----	Coker's Pedigreed Seed Company, Hartsville, South Carolina
Delta Queen, Southern Belle, Hunter-----	North American Plant Breeders, Brookston, Indiana
Doublecrop-----	Rice Branch Experiment Station, Stuttgart, Arkansas
Florida 301-----	Florida Foundation Seed Producers, Inc., Greenwood, Florida
Ga. 1123, Holley, Omega 78, Stacy-----	Georgia Seed Development Commission, Athens, Georgia
Hart-----	University of Missouri, Columbia, Missouri
N.K. 79810, McNair 1813, 1003-----	Northrup King Co., Laurinburg, North Carolina
Pioneer 2550-----	Pioneer Hi-Bred International, Inc., Tipton, Indiana
Roy-----	North Carolina Foundation Seed Prod., Inc., Raleigh, North Carolina
Terral 800-22-----	Terral-Norris Seed Co., Lake Providence, Louisiana

OATS

Coker (All Varieties)-----	Coker's Pedigreed Seed Company, Hartsville, South Carolina
Florida 501-----	Alabama Crop Improvement Assoc., Inc., Auburn, Alabama
Norris 81-29-----	Terral-Norris Seed Company, Lake Providence, Louisiana

