The 1985 Alabama Performance Comparison Of Small Grain Varieties

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Gale A. Buchanan, Director

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by

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THE 1985 ALABAMA PERFORMANCE COMPARISON OF SMALL GRAIN VARIETIES

W. C. Johnson and Darrell Williams[1]

INTRODUCTION

The large number of commercially available varieties of wheat, oats, 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. This report is published annually to provide Alabama growers with this information.

Data from tests conducted at 12 locations were used to compile this report and they represent the varied growing conditions farmers have 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 except Headland. Each variety was replicated three times in each test.

The trials were divided into three management systems: grain only, grain following grazing, and forage only.

Grain only: These tests were planted during late October to early November, which was approximately one month later than the forage tests. These tests were fertilized with P and K according to soil test plus 20

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[1] Professor and Research Associate of Agronomy and Soils.

pounds N per acre at planting with a topdressing of 60 pounds N per acre 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. The grain was cleaned, weighed, moisture determined, and bushel test weight measured.

Grain following grazing: These tests were grazed periodically during fall and winter, followed by removal of cattle in February or March to allow the crop to joint and produce grain. These tests were planted around October 1, and fertilized at planting with 100 pounds N per acre. The plots were grazed closely each time 6-8 inches of forage were available, but no animal or forage data were taken. The grazing was stopped in late February or early March, and the test was topdressed with 60 pounds N per acre and allowed to joint and produce grain. The grazing tests were located at Winfield and Camden only.

Forage only: The forage only tests were planted around October 1 and fertilized at planting with 100 pounds N per acre and clipped each time they reached 6 inches in height with a flail-type mower. A sample was weighed green from each plot, then dried and reweighed. The percent dry matter figure from these weights was used to calculate dry forage matter per acre. The test was topdressed in February with 60 pounds N per acre and continued to be clipped until no regrowth occurred in the spring.

DATA EXPLANATION

Grain yields were calculated by weighing air-dried grain and using 60 pounds per bushel for wheat, 32 pounds per bushel for oats, 48

pounds per bushel for barley, and 50 pounds for triticale.

Lodging was measured as percent of the stand broken or leaning that would likely be missed by a combine. The height was measured from the ground to top of the grain head.

The 1/10 headed date is the date when approximately 10 percent of the plot showed fully emerged heads.

Disease ratings for wheat and barley are given in tables 16-21. Dr. Robert T. Gudauskas, Department of Botany, Plant Pathology, and Microbiology, compiled these disease ratings from each test location. The ratings were taken when most varieties were in the soft dough stage of maturity.

Hessian fly was a serious pest in small grain fields of west-central Alabama this season. Dr. Paul M. Estes, Department of Zoology-Entomology, rated the small grain variety tests at Camden and Prattville for levels of infestation. His report is on pages 46-49.

DISCUSSION

Growing conditions and varietal performance often vary among locations and years. Regional averages and multiple-year averages are given here to use as a better indicator for performance comparison. Variety recommendations are made for general regions of the State and are based on performance at several locations in each region. Recommendations are made on the basis of at least 3 years' data.

The grain following grazing test was first planted in 1983. Three-year averages shown for this test were calculated using grain produced following clipping, which was the experimental procedure of previous years to simulate grazed conditions.

TABLE 1. CHARACTERISTICS OF SMALL GRAINS TESTED IN NORTHERN ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	AVERAGE YIELD/ACRE GRAIN ONLY			AVERAGE YIELD/ACRE GRAIN AFTER GRAZING			AVERAGE YIELD/ACRE FORAGE ONLY			1985 AVERAGE 1/10			
	1985	2-YR.	3-YR.	1985	2-YR.	3-YR.	1985	2-YR.	3-YR.	LODGING	HEIGHT	HEADED	TEST WT.
	BU.	BU.	BU.	BU.	BU.	BU.	LB.	LB.	LB.	PCT.	IN.	DATE	LB./BU.
WHEAT													
FLORIDA 302	50	61	-	18	33	-	2,542	2,941	-	19	34	4-19	57.4
HW3021	47	-	-	-	-	-	-	-	-	1	37	4-17	56.5
COKER 762	47	52	43	15	35	30	2,532	2,904	2,941	18	29	4-19	56.9
HW 3015	46	-	-	-	-	-	-	-	-	0	37	4-17	58.8
SALUDA	46	50	-	17	39	-	2,725	-	-	22	31	4-19	59.6
COMPTON	46	-	-	27	-	-	2,952	-	-	5	33	4-20	58.7
CALDWELL	45	51	44	22	40	38	3,292	3,352	3,392	23	33	4-22	57.8
MASSEY	45	55	-	31	44	-	2,693	3,163	-	8	34	4-17	58.9
WHEELER	42	45	-	18	35	-	-	-	-	21	36	4-19	60.1
MCNAIR 1003	41	48	39	21	37	30	2,434	2,901	2,971	10	33	4-14	54.9
COKER 916	41	44	37	-	-	-	-	-	-	1	31	4-12	58.9
COKER 983	40	49	-	9	31	-	-	-	-	17	29	4-18	60.3
BRADFORD	40	-	-	19	-	-	2,546	-	-	25	38	4-16	59.8
TYLER	40	50	-	9	30	-	2,600	3,043	-	26	34	4-22	54.0
PIONEER 2550	39	50	43	11	29	30	3,106	-	-	35	32	4-23	57.0
HUNTER	39	47	-	15	36	-	-	-	-	15	28	4- 9	60.9
TERRAL 812	38	-	-	-	-	-	-	-	-	4	33	4-17	58.3
COKER 747	37	46	40	14	31	32	2,674	2,820	2,870	25	28	4-20	58.7
COKER 68-15	34	43	37	13	33	30	2,246	2,775	2,993	25	31	4-18	59.9
ROSEN	32	44	-	13	34	-	2,331	-	-	18	31	4-16	56.4
PIKE	32	-	-	11	-	-	2,599	-	-	28	34	4-19	55.4
OMEGA 78	-	-	-	-	-	-	2,349	2,645	2,842	-	-	-	-
GA 1123	-	-	-	-	-	-	2,284	2,780	2,955	-	-	-	-
TEST MEAN	41	49	40	17	35	32	2,619	2,932	2,995	16	33	-	-
L.S.D. (.10)	6	9	8	5	7	5	377	390	318	-	-	-	-
C.V. (%)	12	14	15	20	15	13	11	10	8	-	-	-	-
OATS													
COKER 716	79	71	71	-	-	-	4,007	3,366	3,493	4	39	4-25	34.2
COKER 81-21	71	65	65	66	84	78	3,802	2,980	-	8	30	4-24	35.6
MADISON	53	-	-	48	-	-	2,928	-	-	6	28	4-26	30.9
COKER 227	-	-	-	-	-	-	3,620	2,974	3,208	-	-	-	-
TEST MEAN	68	68	68	57	84	78	3,589	3,106	3,351	6	33	-	-
L.S.D. (.10)	15	11	11	16	8	12	274	392	267	-	-	-	-
C.V. (%)	16	12	12	12	6	11	5	9	6	-	-	-	-

CONTINUED

TABLE 1. CHARACTERISTICS OF SMALL GRAINS TESTED IN NORTHERN ALABAMA, 3-YEAR SUMMARY

CONTINUED

BRAND-VARIETY	AVERAGE YIELD/ACRE GRAIN ONLY			AVERAGE YIELD/ACRE GRAIN AFTER GRAZING			AVERAGE YIELD/ACRE FORAGE ONLY			1985 AVERAGE			
	1985	2-YR.	3-YR.	1985	2-YR.	3-YR.	1985	2-YR.	3-YR.	LODGING	HEIGHT	L/LO HEADED	TEST WT.
	BU.	BU.	BU.	BU.	BU.	BU.	LB.	LB.	LB.	PCT.	IN.	DATE	LB./BU.
BARLEY													
BARSOY	50	46	42	36	21	25	2,906	3,002	3,127	34	29	4- 8	43.0
KEGWEE	49	46	44	20	20	27	3,209	3,126	3,215	31	30	4-20	40.8
ANSON	46	-	-	25	-	-	3,307	-	-	32	38	4-19	40.5
VOLBAR	46	39	39	-	-	-	-	-	-	33	37	4-19	37.0
SUSSEX	43	41	-	22	14	-	3,324	3,283	-	34	30	4- 9	40.1
BOONE	35	-	-	15	-	-	2,656	-	-	44	29	4-18	41.0
TEST MEAN	45	43	41	24	18	26	3,031	3,137	3,171	35	32	-	-
L.S.D. (.10)	7	11	11	11	8	10	450	466	302	-	-	-	-
C.V. (%)	12	18	19	29	31	26	10	11	7	-	-	-	-
RYE													
BONEL	-	-	-	-	-	-	3,991	4,474	-	-	-	-	-
WINTERGRAZER 70	-	-	-	-	-	-	3,531	4,143	4,275	-	-	-	-
ELBON	-	-	-	-	-	-	3,435	4,104	-	-	-	-	-
GI 85	-	-	-	-	-	-	3,162	3,946	-	-	-	-	-
AFC 20-20	-	-	-	-	-	-	3,127	3,833	4,161	-	-	-	-
GURLEY'S GRAZER 2000	-	-	-	-	-	-	2,926	3,867	4,050	-	-	-	-
N.K. VITAGRAZE	-	-	-	-	-	-	2,844	3,693	3,979	-	-	-	-
FORAGER	-	-	-	-	-	-	2,739	-	-	-	-	-	-
TEST MEAN	-	-	-	-	-	-	3,219	3,994	4,116	-	-	-	-
L.S.D. (.10)	-	-	-	-	-	-	407	665	439	-	-	-	-
C.V. (%)	-	-	-	-	-	-	9	12	8	-	-	-	-
TRITICALE													
MORRISON	52	-	-	27	-	-	3,313	-	-	6	50	4-17	49.5
TRICAL B631A	39	-	-	16	-	-	1,858	-	-	7	36	4- 4	46.0
TRICAL 4764	37	-	-	13	-	-	2,358	-	-	28	41	4-19	47.3
TRICAL 876-10	-	-	-	-	-	-	3,797	-	-	-	-	-	-
COUNCIL	-	-	-	-	-	-	3,292	3,081	3,218	-	-	-	-
WSC 79186	-	-	-	-	-	-	2,860	-	-	-	-	-	-
TEST MEAN	42	-	-	19	-	-	2,996	3,081	3,218	13	42	-	-
L.S.D. (.10)	10	-	-	4	-	-	398	398	389	-	-	-	-
C.V. (%)	17	-	-	12	-	-	10	9	9	-	-	-	-

TABLE 2. PERFORMANCE OF SMALL GRAINS AT BELLE MINA, ALABAMA, 1985 CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
KEOWEE	64	41.0	61	1,941	3,027
BARSOY	51	45.6	62	1,828	2,989
VOLBAR	50	39.8	47	-	-
ANSON	48	39.6	-	1,991	-
SUSSEX	48	39.0	-	2,042	-
BOONE	41	39.6	-	1,380	-
TEST MEAN	51	-	57	1,836	3,008
L.S.D. (.10)	9	-	15	221	188
C.V. (%)	12	-	19	8	5
RYE					
BONEL	-	-	-	3,037	-
WINTERGRAZER 70	-	-	-	2,593	4,367
ELBON	-	-	-	2,356	-
AFC 20-20	-	-	-	2,329	4,254
N.K. VITAGRAZE	-	-	-	2,161	4,094
GI 85	-	-	-	2,103	-
GURLEY'S GRAZER 2000	-	-	-	2,058	4,134
FORAGER	-	-	-	1,884	-
TEST MEAN	-	-	-	2,315	4,212
L.S.D. (.10)	-	-	-	334	288
C.V. (%)	-	-	-	10	5
TRITICALE					
MORRISON	60	49.8	-	2,203	-
TRICAL 476M	36	46.2	-	2,264	-
TRICAL 863LA	32	45.4	-	1,480	-
TRICAL 876-10	-	-	-	3,150	-
COUNCIL	-	-	-	2,550	2,891
WSC 79186	-	-	-	2,402	-
TEST MEAN	43	-	-	2,342	2,891
L.S.D. (.10)	19	-	-	109	400
C.V. (%)	25	-	-	3	10

TABLE 2. PERFORMANCE OF SMALL GRAINS AT BELLE MINA, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
CALDWELL	65	58.4	60	1,904	3,373
COMPTON	63	58.8	-	1,745	-
SALUDA	55	58.4	-	1,939	-
FLORIDA 302	54	56.0	-	1,939	-
HW 3015	54	58.4	-	-	-
HW3021	52	55.0	-	-	-
COKER 762	52	57.8	58	1,866	2,667
PIONEER 2550	49	57.2	57	1,950	-
COKER 916	49	58.8	48	-	-
MCNAIR 1003	46	51.6	49	1,683	2,856
BRADFORD	46	59.8	-	2,015	-
COKER 983	45	60.0	-	-	-
HUNTER	44	60.1	-	-	-
WHEELER	44	59.2	-	-	-
MASSEY	43	57.8	-	1,792	-
ROSEN	41	56.4	-	1,504	-
COKER 747	41	58.2	51	1,647	2,599
TERRAL 812	41	56.2	-	-	-
COKER 68-15	40	59.8	49	1,673	2,733
TYLER	39	51.6	-	1,559	-
PIKE	38	54.2	-	1,365	-
GA 1123	-	-	-	1,787	2,728
OMEGA 78	-	-	-	1,594	2,495
TEST MEAN	48	-	53	1,748	2,779
L.S.D. (.10)	9	-	13	163	176
C.V. (%)	13	-	17	7	5
OATS					
COKER 81-21	98	35.1	66	2,524	-
COKER 716	76	33.8	67	2,682	3,229
MADISON	58	29.9	-	1,980	-
COKER 227	-	-	-	2,654	2,843
TEST MEAN	74	-	66	2,460	3,034
L.S.D. (.10)	8	-	11	186	174
C.V. (%)	6	-	12	5	4

CONTINUED

TABLE 3. PERFORMANCE OF SMALL GRAINS AT CROSSVILLE, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
FLORIDA 302	69	58.8	-	3,149	-
HW3021	62	58.1	-	-	-
TYLER	61	56.5	-	3,524	-
HW 3015	61	59.2	-	-	-
MASSEY	61	60.1	-	3,153	-
TERRAL 812	60	60.5	-	-	-
SALUDA	59	60.9	-	3,125	-
COKER 983	56	60.5	-	-	-
COKER 762	55	56.0	40	2,739	2,687
COKER 916	55	59.0	47	-	-
WHEELER	55	61.1	-	-	-
MCNAIR 1003	55	58.3	43	2,880	2,569
BRADFORD	54	59.9	-	2,742	-
HUNTER	54	61.7	-	-	-
PIONEER 2550	50	56.9	45	3,623	-
COKER 747	49	59.3	40	3,181	2,551
COMPTON	47	58.7	-	3,353	-
CALDWELL	45	57.2	42	3,337	2,684
PIKE	41	56.7	-	2,598	-
ROSEN	41	56.5	-	2,781	-
COKER 68-15	40	60.0	35	2,549	2,470
OMEGA 78	-	-	-	2,540	2,386
GA 1123	-	-	-	2,215	2,360
TEST MEAN	54	-	42	2,968	2,552
L.S.D. (.10)	4	-	4	357	186
C.V. (%)	6	-	7	9	5
OATS					
COKER 716	108	34.6	82	5,291	3,109
COKER 81-21	84	36.2	78	5,272	-
MADISON	50	32.0	-	3,533	-
COKER 227	-	-	-	4,815	3,018
TEST MEAN	81	-	80	4,728	3,063
L.S.D. (.10)	12	-	11	450	194
C.V. (%)	9	-	9	6	5

CONTINUED

TABLE 3. PERFORMANCE OF SMALL GRAINS AT CROSSVILLE, ALABAMA, 1985
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985	TEST WT.	3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
ANSON	74	41.4	-	4,081	-
KEOWEE	73	40.7	62	4,036	2,913
SUSSEX	66	41.3	-	4,728	-
BARSOY	65	40.4	49	3,938	2,794
VOLBAR	63	34.3	55	-	-
BOONE	58	42.4	-	3,549	-
TEST MEAN	67	-	55	4,067	2,854
L.S.D. (.10)	8	-	11	702	281
C.V. (%)	8	-	14	11	7
RYE					
BONEL	-	-	-	4,245	-
WINTERGRAZER 70	-	-	-	4,142	3,762
AFC 20-20	-	-	-	3,793	3,598
GI 85	-	-	-	3,670	-
ELBON	-	-	-	3,648	-
FORAGER	-	-	-	3,515	-
GURLEY'S GRAZER 2000	-	-	-	3,408	3,463
N.K. VITAGRAZE	-	-	-	3,184	3,161
TEST MEAN	-	-	-	3,700	3,496
L.S.D. (.10)	-	-	-	374	368
C.V. (%)	-	-	-	7	8
TRITICALE					
MORRISON	70	49.3	-	3,832	-
TRICAL B631A	60	46.6	-	2,208	-
TRICAL 476M	58	48.4	-	3,593	-
TRICAL 876-10	-	-	-	4,407	-
COUNCIL	-	-	-	3,683	2,857
WSC 79186	-	-	-	3,171	-
TEST MEAN	63	-	-	3,482	2,857
L.S.D. (.10)	6	-	-	325	325
C.V. (%)	6	-	-	6	8

TABLE 4. PERFORMANCE OF SMALL GRAINS AT WINFIELD, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			GRAIN AFTER GRAZING YIELD/ACRE		FORAGE ONLY YIELD/ACRE	
	1985	TEST WT.	3-YR. AV.	1985	3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	BU.	BU.	LB.	LB.
WHEAT							
COKER 762	33	-	29	15	26	2,989	3,468
MASSEY	31	-	-	31	-	3,134	-
COMPTON	27	-	-	27	-	3,757	-
WHEELER	27	-	-	18	-	-	-
FLORIDA 302	26	-	-	18	-	2,539	-
HW3021	26	-	-	-	-	-	-
CALDWELL	26	-	29	22	30	4,637	4,120
SALUDA	24	-	-	17	-	3,111	-
HW 3015	23	-	-	-	-	-	-
COKER 747	23	-	28	14	24	3,194	3,460
COKER 68-15	22	-	27	13	25	2,517	3,774
MCNAIR 1003	21	-	26	21	26	2,738	3,488
BRADFORD	21	-	-	19	-	2,880	-
COKER 983	19	-	-	9	-	-	-
TYLER	19	-	-	9	-	2,718	-
HUNTER	18	-	-	15	-	-	-
PIONEER 2550	18	-	29	11	24	3,745	-
COKER 916	18	-	17	-	-	-	-
PIKE	16	-	-	11	-	3,833	-
ROSEN	15	-	-	13	-	2,707	-
TERRAL 812	15	-	-	-	-	-	-
OMEGA 78	-	-	-	-	-	2,913	3,645
GA 1123	-	-	-	-	-	2,850	3,758
TEST MEAN	22	-	26	17	26	3,141	3,673
L.S.D. (.10)	6	-	6	5	6	540	464
C.V. (%)	20	-	16	20	17	12	9
OATS							
MADISON	53	-	-	48	-	3,271	-
COKER 716	52	-	63	-	-	4,049	4,140
COKER 81-21	42	-	50	66	60	3,611	-
COKER 227	-	-	-	-	-	3,390	3,768
TEST MEAN	49	-	56	57	60	3,581	3,954
L.S.D. (.10)	28	-	12	16	5	215	370
C.V. (%)	33	-	16	12	6	4	7

CONTINUED

TABLE 4. PERFORMANCE OF SMALL GRAINS AT WINFIELD, ALABAMA, 1985

CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			GRAIN AFTER GRAZING YIELD/ACRE		FORAGE ONLY YIELD/ACRE	
	1985	TEST WT.	3-YR. AV.	1985	3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	BU.	BU.	LB.	LB.
BARLEY							
BARSOY	33	-	14	36	15	2,951	3,599
VOLBAR	23	-	14	-	-	-	-
ANSON	15	-	-	25	-	3,850	-
SUSSEX	14	-	-	22	-	3,201	-
KEOWEE	12	-	8	20	15	3,651	3,705
BOONE	5	-	-	15	-	3,040	-
TEST MEAN	17	-	12	24	15	3,339	3,652
L.S.D. (.10)	7	-	5	11	7	418	406
C.V. (%)	27	-	28	29	31	8	8
RYE							
BONEL	-	-	-	-	-	4,691	-
ELBON	-	-	-	-	-	4,302	-
WINTERGRAZER 70	-	-	-	-	-	3,860	4,697
GI 95	-	-	-	-	-	3,712	-
GURLEY'S GRAZER 2000	-	-	-	-	-	3,313	4,553
AFC 20-20	-	-	-	-	-	3,260	4,632
N.K. VITAGRAZE	-	-	-	-	-	3,186	4,682
FORAGER	-	-	-	-	-	2,819	-
TEST MEAN	-	-	-	-	-	3,643	4,641
L.S.D. (.10)	-	-	-	-	-	541	584
C.V. (%)	-	-	-	-	-	10	9
TRITICALE							
MORRISON	28	-	-	27	-	3,904	-
TRICAL 8631A	20	-	-	16	-	1,886	-
TRICAL 4764	17	-	-	13	-	2,716	-
TRICAL 876-10	-	-	-	-	-	3,835	-
COUNCIL	-	-	-	-	-	3,642	3,908
WSC 79186	-	-	-	-	-	3,008	-
TEST MEAN	22	-	-	19	-	3,165	3,908
L.S.D. (.10)	7	-	-	4	-	653	415
C.V. (%)	19	-	-	12	-	14	8

TABLE 5. CHARACTERISTICS OF SMALL GRAINS TESTED IN CENTRAL ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	AVERAGE YIELD/ACRE GRAIN ONLY			AVERAGE YIELD/ACRE FORAGE ONLY			1985 AVERAGE			
	1985 BU.	2-YR. BU.	3-YR. BU.	1985 LB.	2-YR. LB.	3-YR. LB.	LODGING PCT.	HEIGHT IN.	1/10 HEADED DATE	TEST WT. LB./BU.
WHEAT										
HW 3015	53	-	-	-	-	-	2	36	4-13	52.8
COKER 762	51	53	47	-	-	-	2	29	4-12	49.8
COMPTON	50	-	-	2,688	-	-	1	35	4-16	55.7
SALUDA	50	61	-	2,569	-	-	3	31	4-14	54.3
STACY	48	53	46	2,425	3,773	-	5	37	4-12	54.2
HW3021	48	-	-	-	-	-	1	35	4-12	50.1
MASSEY	47	53	-	2,058	3,692	-	1	34	4-10	53.5
COKER 916	46	52	46	-	-	-	1	30	4-11	53.9
MCNAIR 1003	46	56	47	2,136	3,344	3,871	1	34	4-11	49.6
SCOTTY	45	52	-	-	-	-	1	33	4-15	53.6
HUNTER	45	52	45	-	-	-	2	28	4- 8	56.8
BRADFORD	43	-	-	1,787	-	-	2	39	4-11	54.8
PIONEER 2550	43	54	49	2,618	-	-	9	33	4-19	50.6
COKER 983	43	49	-	-	-	-	1	28	4-12	54.5
CALDWELL	43	51	46	2,338	3,403	4,121	11	33	4-16	52.8
TERRAL 812	42	-	-	-	-	-	5	32	4-11	54.7
FLORIDA 301	42	44	38	-	-	-	1	36	4-10	53.9
HW3022	41	-	-	-	-	-	8	34	4-14	54.8
COKER 747	39	46	43	1,705	3,036	3,379	24	30	4-15	54.8
COKER 68-15	37	42	37	-	-	-	8	33	4-13	56.0
FLORIDA 302	36	51	-	1,527	3,081	-	5	32	4-15	50.4
TYLER	34	45	-	1,654	3,134	-	16	35	4-18	49.9
PIKE	30	-	-	1,802	-	-	9	32	4-17	50.7
AUBURN	-	-	-	2,389	3,312	3,985	-	-	-	-
FILLMORE	-	-	-	2,151	3,244	3,952	-	-	-	-
OMEGA 78	-	-	-	1,571	3,118	-	-	-	-	-
TEST MEAN	44	51	44	2,094	3,314	3,842	5	33	-	-
L.S.D. (.10)	6	8	8	425	720	355	-	-	-	-
C.V. (%)	11	12	14	15	16	7	-	-	-	-
OATS										
COKER 716	73	80	76	2,394	4,083	4,650	2	34	4-23	29.3
COKER 81-21	67	69	-	1,766	3,515	-	1	28	4-23	31.2
CITATION	35	46	-	-	-	-	0	30	4-19	29.4
MADISON	32	-	-	1,761	-	-	0	24	4-23	26.9
FLORIDA 502	7	13	-	1,472	1,625	-	0	20	4-16	28.8
COKER 227	-	-	-	1,900	3,539	4,428	-	-	-	-
TEST MEAN	43	52	76	1,856	3,190	4,539	1	27	-	-
L.S.D. (.10)	16	15	14	3,783	2,408	1,029	-	-	-	-
C.V. (%)	28	22	14	147	56	17	-	-	-	-

CONTINUED

TABLE 5. CHARACTERISTICS OF SMALL GRAINS TESTED IN CENTRAL ALABAMA, 3-YEAR SUMMARY CONTINUED

BRAND-VARIETY	AVERAGE YIELD/ACRE GRAIN ONLY			AVERAGE YIELD/ACRE FORAGE ONLY			1985 AVERAGE			
	1985	2-YR.	3-YR.	1985	2-YR.	3-YR.	LODGING	HEIGHT	1/10 HEADED	TEST WT.
	BU.	BU.	BU.	LB.	LB.	LB.	PCT.	IN.	DATE	LB./BU.
BARLEY										
BARSOY	61	-	-	1,756	3,052	3,542	21	27	4- 6	38.7
SUSSEX	53	-	-	1,616	3,087	-	20	27	4-10	33.1
REDHILL	50	-	-	1,488	-	-	1	27	4- 8	35.1
VOLBAR	46	-	-	-	-	-	42	36	4-17	31.7
ANSON	43	-	-	1,486	-	-	42	36	4-16	31.0
KEOWEE	39	-	-	-	-	-	46	29	4-18	28.8
BOONE	29	-	-	1,399	-	-	36	26	4-18	28.3
TEST MEAN	46	-	-	1,549	3,070	3,542	30	30	-	-
L.S.D. (.10)	9	-	-	242	478	298	-	-	-	-
C.V. (%)	15	-	-	11	11	6	-	-	-	-
RYE										
WINTERGRAZER 70	-	-	-	2,833	3,770	4,688	-	-	-	-
BONEL	-	-	-	2,751	3,736	-	-	-	-	-
MATON	-	-	-	2,671	3,595	-	-	-	-	-
AFC 20-20	-	-	-	2,647	3,591	4,382	-	-	-	-
GI 85	-	-	-	2,566	3,602	-	-	-	-	-
GURLEY'S GRAZER 2000	-	-	-	2,470	3,367	4,269	-	-	-	-
ELBON	-	-	-	2,334	3,334	-	-	-	-	-
N.K. VITAGRAZE	-	-	-	2,308	3,218	4,199	-	-	-	-
FORAGER	-	-	-	2,290	-	-	-	-	-	-
FL-SYN-T	-	-	-	2,172	-	-	-	-	-	-
TEST MEAN	-	-	-	2,504	3,527	4,385	-	-	-	-
L.S.D. (.10)	-	-	-	336	524	343	-	-	-	-
C.V. (%)	-	-	-	10	11	6	-	-	-	-
TRITICALE										
MORRISON	36	-	-	2,263	-	-	2	44	4-15	42.1
TRICAL B631A	25	-	-	1,172	-	-	6	35	4- 9	35.6
TRICAL 4764	21	-	-	1,406	-	-	10	39	4-15	36.1
TRICAL 876-10	-	-	-	2,186	-	-	-	-	-	-
COUNCIL	-	-	-	1,713	3,081	3,889	-	-	-	-
WSC 79186	-	-	-	1,351	-	-	-	-	-	-
TEST MEAN	27	-	-	1,692	3,081	3,889	6	39	-	-
L.S.D. (.10)	12	-	-	413	413	250	-	-	-	-
C.V. (%)	33	-	-	18	10	5	-	-	-	-

TABLE 6. PERFORMANCE OF SMALL GRAINS AT MARION JUNCTION, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985	TEST WT.	3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
COMPTON	57	56.5	-	3,993	-
CALDWELL	56	53.8	60	3,830	4,407
HW3021	53	47.9	-	-	-
PIONEER 2550	53	49.8	56	3,859	-
MASSEY	52	53.5	-	3,083	-
HW 3015	51	50.8	-	-	-
SALUDA	49	54.3	-	3,616	-
STACY	49	52.8	52	3,574	-
COKER 762	48	46.2	53	-	-
SCOTTY	48	55.2	-	-	-
MCNAIR 1003	47	47.4	58	2,620	3,642
COKER 747	46	55.8	49	2,521	3,212
FLORIDA 301	46	53.5	49	-	-
HUNTER	46	54.9	51	-	-
COKER 916	44	53.8	48	-	-
HW3022	42	52.0	-	-	-
BRADFORD	41	54.2	-	2,674	-
COKER 983	40	52.9	-	-	-
TERRAL 812	38	53.9	-	-	-
FLORIDA 302	38	48.0	-	1,846	-
TYLER	37	52.6	-	2,605	-
COKER 68-15	36	55.5	38	-	-
PIKE	34	51.0	-	2,334	-
AUBURN	-	-	-	3,690	4,158
FILLMORE	-	-	-	2,910	3,495
OMEGA 78	-	-	-	1,866	-
TEST MEAN	46	-	51	3,001	3,783
L.S.D. (.10)	6	-	8	426	422
C.V. (%)	9	-	12	10	8
OATS					
COKER 716	93	32.1	108	3,289	4,092
COKER 81-21	73	33.0	-	1,745	-
CITATION	9	30.5	-	-	-
MADISON	0	-	-	1,832	-
FLORIDA 502	0	-	-	1,763	-
COKER 227	-	-	-	1,730	3,744
TEST MEAN	35	-	108	2,072	3,918
L.S.D. (.10)	20	-	15	364	354
C.V. (%)	38	-	10	12	7

CONTINUED

TABLE 6. PERFORMANCE OF SMALL GRAINS AT MARION JUNCTION, ALABAMA, 1985
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985	TEST WT.	3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
SUSSEX	76	35.6	-	1,727	-
BARSOY	66	37.8	-	2,204	2,682
REDHILL	61	34.8	-	1,278	-
ANSON	58	34.9	-	1,790	-
VOLBAR	52	31.0	-	-	-
KEOWEE	38	30.1	-	-	-
BOONE	22	29.0	-	1,662	-
TEST MEAN	53	-	-	1,732	2,682
L.S.D. (.10)	13	-	-	292	472
C.V. (%)	16	-	-	11	13
RYE					
WINTERGRAZER 70	-	-	-	3,501	3,711
MATON	-	-	-	3,467	-
AFC 20-20	-	-	-	3,215	3,309
GURLEY'S GRAZER 2000	-	-	-	3,033	3,311
BONEL	-	-	-	2,980	-
ELBON	-	-	-	2,855	-
N.K. VITAGRAZE	-	-	-	2,850	3,286
GI 85	-	-	-	2,830	-
FORAGER	-	-	-	2,717	-
FL-SYN-T	-	-	-	2,669	-
TEST MEAN	-	-	-	3,012	3,404
L.S.D. (.10)	-	-	-	383	365
C.V. (%)	-	-	-	9	8
TRITICALE					
MORRISON	54	45.3	-	2,880	-
TRICAL B631A	25	39.6	-	1,447	-
TRICAL 476M	21	37.6	-	1,186	-
TRICAL 876-10	-	-	-	3,216	-
COUNCIL	-	-	-	2,464	2,701
WSC 79186	-	-	-	1,006	-
TEST MEAN	33	-	-	2,033	2,701
L.S.D. (.10)	6	-	-	456	292
C.V. (%)	11	-	-	15	8

TABLE 7. PERFORMANCE OF SMALL GRAINS AT PRATTVILLE, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
HW 3015	77	58.0	-	-	-
HW3021	74	55.9	-	-	-
FLORIDA 301	68	59.3	56	-	-
COKER 916	67	58.1	58	-	-
COKER 762	66	55.2	53	-	-
COMPTON	66	58.8	-	3,122	-
SALUDA	65	59.7	-	2,900	-
MCNAIR 1003	65	53.3	56	1,994	3,168
COKER 983	64	58.9	-	-	-
MASSEY	64	56.0	-	1,833	-
FLORIDA 302	63	56.7	-	1,151	-
HUNTER	63	60.7	56	-	-
STACY	62	58.2	50	2,397	-
BRADFORD	61	57.9	-	-	-
TERRAL 812	59	58.3	-	-	-
PIONEER 2550	59	55.9	52	2,921	-
SCOTTY	59	57.1	-	-	-
CALDWELL	57	55.3	41	2,838	3,423
HW3022	51	59.7	-	-	-
TYLER	50	54.4	-	1,102	-
COKER 747	49	58.5	49	1,334	2,627
COKER 68-15	47	60.8	42	-	-
PIKE	41	56.3	-	-	-
AUBURN	-	-	-	2,592	3,009
FILLMORE	-	-	-	2,517	3,188
OMEGA 78	-	-	-	1,126	-
TEST MEAN	61	-	52	2,141	3,083
L.S.D. (.10)	6	-	6	353	205
C.V. (%)	7	-	8	12	5
OATS					
COKER 716	106	27.2	64	2,974	4,563
COKER 81-21	88	29.6	-	2,625	-
MADISON	49	25.3	-	2,386	-
CITATION	49	27.2	-	-	-
COKER 227	-	-	-	2,668	4,049
FLORIDA 502	-	-	-	2,239	-
TEST MEAN	73	-	64	2,578	4,305
L.S.D. (.10)	12	-	7	371	220
C.V. (%)	10	-	8	9	4

CONTINUED

TABLE 7. PERFORMANCE OF SMALL GRAINS AT PRATTVILLE, ALABAMA, 1985 CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
BARSOY	82	40.3	-	1,893	2,977
REDHILL	65	36.5	-	1,769	-
SUSSEX	63	34.6	-	1,838	-
VOLBAR	61	32.7	-	-	-
ANSON	58	33.5	-	1,781	-
KEOWEE	54	31.0	-	-	-
BOONE	40	31.0	-	1,413	-
TEST MEAN	60	-	-	1,739	2,977
L.S.D. (.10)	7	-	-	242	140
C.V. (%)	8	-	-	9	3
RYE					
BONEL	-	-	-	3,176	-
AFC 20-20	-	-	-	2,978	3,866
WINTERGRAZER 70	-	-	-	2,969	4,235
MATON	-	-	-	2,793	-
GI 85	-	-	-	2,778	-
GURLEY'S GRAZER 2000	-	-	-	2,728	3,745
FORAGER	-	-	-	2,711	-
N.K. VITAGRAZE	-	-	-	2,421	3,855
FL-SYN-T	-	-	-	2,352	-
ELBON	-	-	-	1,994	-
TEST MEAN	-	-	-	2,690	3,925
L.S.D. (.10)	-	-	-	235	254
C.V. (%)	-	-	-	6	5
TRITICALE					
TRICAL 8631A	45	43.7	-	1,298	-
TRICAL 476M	42	43.7	-	2,020	-
MORRISON	38	43.6	-	2,538	-
TRICAL 876-10	-	-	-	2,420	-
COUNCIL	-	-	-	1,892	3,256
WSC 79186	-	-	-	1,685	-
TEST MEAN	42	-	-	1,975	3,256
L.S.D. (.10)	7	-	-	598	282
C.V. (%)	9	-	-	20	6

TABLE 8. PERFORMANCE OF SMALL GRAINS AT TALLASSEE, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
STACY	50	49.8	48	2,072	-
COKER 762	50	45.4	46	-	-
COMPTON	47	51.8	-	1,690	-
SALUDA	47	46.6	-	1,883	-
BRADFORD	45	52.4	-	880	-
HW 3015	44	47.5	-	-	-
HUNTER	41	53.7	44	-	-
SCOTTY	38	46.0	-	-	-
COKER 916	38	47.9	45	-	-
TERRAL 812	38	50.6	-	-	-
MASSEY	37	49.0	-	1,403	-
MCNAIR 1003	36	43.0	39	1,831	5,085
HW3022	35	50.9	-	-	-
COKER 983	34	49.5	-	-	-
CALDWELL	30	47.6	37	762	5,476
FLORIDA 301	29	48.4	31	-	-
COKER 68-15	29	52.0	28	-	-
HW3021	28	41.5	-	-	-
PIONEER 2550	27	42.4	41	1,703	-
COKER 747	24	47.3	31	1,063	4,403
PIKE	18	41.1	-	1,202	-
TYLER	16	37.2	-	956	-
FLORIDA 302	16	42.6	-	1,235	-
OMEGA 78	-	-	-	1,476	-
AUBURN	-	-	-	1,312	5,487
FILLMORE	-	-	-	1,296	5,543
TEST MEAN	35	-	39	1,384	5,199
L.S.D. (.10)	8	-	11	575	416
C.V. (%)	18	-	20	30	6
OATS					
COKER 81-21	93	30.9	-	1,443	-
COKER 716	78	28.6	70	1,711	6,736
CITATION	76	30.4	-	-	-
MADISON	69	28.6	-	1,439	-
FLORIDA 502	19	28.8	-	1,028	-
COKER 227	-	-	-	1,629	6,763
TEST MEAN	67	-	70	1,450	6,779
L.S.D. (.10)	26	-	19	534	322
C.V. (%)	26	-	19	24	4

CONTINUED

TABLE 8. PERFORMANCE OF SMALL GRAINS AT TALLASSEE, ALABAMA, 1985
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
BARSOY	53	38.0	-	1,265	5,596
REDHILL	38	33.9	-	1,396	-
VOLBAR	38	31.3	-	-	-
SUSSEX	35	29.2	-	1,147	-
KEDWEE	34	25.4	-	-	-
ANSON	30	24.7	-	763	-
BOONE	21	24.9	-	844	-
TEST MEAN	36	-	-	1,083	5,596
L.S.D. (.10)	10	-	-	271	333
C.V. (%)	20	-	-	16	4
RYE					
WINTERGRAZER 70	-	-	-	3,296	7,678
BONEL	-	-	-	3,169	-
ELBON	-	-	-	3,164	-
MATON	-	-	-	3,117	-
AFC 20-20	-	-	-	3,018	7,102
GI 85	-	-	-	2,925	-
GURLEY'S GRAZER 2000	-	-	-	2,635	7,088
N.K. VITAGRAZE	-	-	-	2,564	6,702
FL-SYN-T	-	-	-	2,391	-
FORAGER	-	-	-	2,265	-
TEST MEAN	-	-	-	2,854	7,143
L.S.D. (.10)	-	-	-	408	406
C.V. (%)	-	-	-	10	4
TRITICALE					
MORRISON	26	37.3	-	1,882	-
TRICAL B631A	23	23.6	-	818	-
TRICAL 476M	5	27.0	-	993	-
TRICAL 876-10	-	-	-	1,318	-
WSC 79186	-	-	-	1,134	-
COUNCIL	-	-	-	880	6,389
TEST MEAN	18	-	-	1,154	6,389
L.S.D. (.10)	26	-	-	307	205
C.V. (%)	84	-	-	18	2

TABLE 9. PERFORMANCE OF SMALL GRAINS AT CAMP HILL, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
HW 3015	39	55.1	-	-	-
COKER 762	39	52.3	35	-	-
SALUDA	38	56.9	-	1,876	-
HW3021	36	55.3	-	-	-
COKER 68-15	36	55.8	38	-	-
MCNAIR 1003	35	54.8	36	2,100	3,590
COKER 916	35	55.7	34	-	-
COKER 747	35	57.5	44	1,904	3,276
SCOTTY	35	56.0	-	-	-
HW3022	35	56.7	-	-	-
PIONEER 2550	34	54.2	46	1,989	-
COKER 983	34	56.6	-	-	-
TYLER	33	55.5	-	1,952	-
MASSEY	33	55.4	-	1,914	-
TERRAL 812	32	56.2	-	-	-
STACY	31	55.9	35	1,656	-
COMPTON	30	55.9	-	1,947	-
HUNTER	30	57.3	30	-	-
CALDWELL	28	54.7	39	1,922	3,178
FLORIDA 302	27	54.2	-	1,874	-
PIKE	27	54.5	-	1,869	-
BRADFORD	26	54.8	-	1,806	-
FLORIDA 301	23	54.5	16	-	-
AUBURN	-	-	-	1,962	3,286
FILLMORE	-	-	-	1,880	3,180
OMEGA 78	-	-	-	1,817	-
TEST MEAN	33	-	35	1,898	3,302
L.S.D. (.10)	5	-	8	325	350
C.V. (%)	12	-	16	12	8
OATS					
COKER 716	16	-	61	1,561	3,150
COKER 81-21	12	-	-	1,251	-
MADISON	9	-	-	1,387	-
CITATION	7	-	-	-	-
FLORIDA 502	0	-	-	856	-
COKER 227	-	-	-	1,573	3,155
TEST MEAN	9	-	61	1,326	3,153
L.S.D. (.10)	6	-	14	8,858	2,185
C.V. (%)	43	-	16	432	51

CONTINUED

TABLE 9. PERFORMANCE OF SMALL GRAINS AT CAMP HILL, ALABAMA, 1985
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
BARSOY	43	-	-	1,662	2,915
SUSSEX	39	-	-	1,752	-
REDHILL	36	-	-	1,509	-
BOONE	34	-	-	1,677	-
VOLBAR	34	-	-	-	-
KEOWEE	30	-	-	-	-
ANSON	26	-	-	1,610	-
TEST MEAN	34	-	-	1,642	2,915
L.S.D. (.10)	10	-	-	256	174
C.V. (%)	20	-	-	10	4
RYE					
GI 85	-	-	-	1,732	-
BONEL	-	-	-	1,678	-
WINTERGRAZER 70	-	-	-	1,564	3,130
GURLEY'S GRAZER 2000	-	-	-	1,483	2,934
FORAGER	-	-	-	1,469	-
N.K. VITAGRAZE	-	-	-	1,397	2,953
AFC 20-20	-	-	-	1,375	3,251
FLBON	-	-	-	1,323	-
MATON	-	-	-	1,307	-
FL-SYN-T	-	-	-	1,278	-
TEST MEAN	-	-	-	1,461	3,067
L.S.D. (.10)	-	-	-	348	308
C.V. (%)	-	-	-	17	7
TRITICALE					
MORRISON	26	-	-	1,751	-
TRICAL 476M	16	-	-	1,524	-
TRICAL 8631A	16	-	-	1,124	-
TRICAL 876-10	-	-	-	1,790	-
COUNCIL	-	-	-	1,618	3,208
WSC 79186	-	-	-	1,580	-
TEST MEAN	16	-	-	1,565	3,209
L.S.D. (.10)	7	-	-	362	257
C.V. (%)	25	-	-	16	6

TABLE 10. CHARACTERISTICS OF SMALL GRAINS TESTED IN SOUTHERN ALABAMA, 3-YEAR SUMMARY

BRAND-VARIETY	AVERAGE YIELD/ACRE GRAIN ONLY			AVERAGE YIELD/ACRE GRAIN AFTER GRAZING			AVERAGE YIELD/ACRE FORAGE ONLY			1985 AVERAGE			
	1985	2-YR.	3-YR.	1985	2-YR.	3-YR.	1985	2-YR.	3-YR.	LODGING	HEIGHT	1/10 HEADED	TEST WT.
	BU.	BU.	BU.	BU.	BU.	BU.	LB.	LB.	LB.	PCT.	IN.	DATE	LB./BU.
WHEAT													
COKER 983	57	59	-	20	42	-	-	-	-	1	30	3-25	55.7
BRADFORD	56	-	-	26	-	-	3,896	-	-	8	39	4- 1	55.8
HW 3015	56	-	-	-	-	-	-	-	-	7	38	3-27	53.2
FLORIDA 302	52	55	-	28	45	-	3,226	3,151	-	15	34	3-25	52.2
HUNTER	52	53	47	15	31	28	-	-	-	3	29	3-20	57.1
COKER 916	48	53	46	22	38	35	-	-	-	8	31	3-30	53.1
TERRAL 812	48	-	-	-	-	-	-	-	-	10	35	3-26	52.9
COKER 762	47	54	49	15	33	29	2,887	3,140	3,363	20	28	3-21	50.9
COMPTON	46	-	-	39	-	-	3,815	-	-	0	34	4- 8	54.5
MCNAIR 1003	45	47	41	27	47	39	3,510	-	-	18	33	3-24	49.5
MASSEY	44	49	-	37	44	-	3,533	3,473	-	21	35	3-22	52.5
SCOTTY	44	48	-	24	38	-	-	-	-	15	33	4- 4	52.9
SALUDA	43	-	-	31	-	-	4,262	-	-	9	30	4- 4	53.3
HW3022	38	-	-	-	-	-	-	-	-	5	34	4- 1	53.1
FLORIDA 301	32	42	35	-	-	-	-	-	-	7	34	3-26	51.3
CALDWELL	31	-	-	-	-	-	-	-	-	40	32	4- 7	49.7
PIKE	23	-	-	15	-	-	3,344	-	-	34	33	3-31	46.9
COKER 747	-	-	-	18	34	32	3,443	3,381	3,310	22	26	-	-
STACY	-	-	-	-	-	-	4,105	-	-	-	-	-	-
FILLMORE	-	-	-	-	-	-	3,636	-	-	-	-	-	-
TYLER	-	-	-	-	-	-	3,449	-	-	-	-	-	-
AUBURN	-	-	-	-	-	-	3,367	-	-	-	-	-	-
COKER 68-15	-	-	-	-	-	-	3,209	3,119	3,091	-	-	-	-
OMEGA 78	-	-	-	-	-	-	3,069	-	-	-	-	-	-
TEST MEAN	45	51	44	24	39	33	3,517	3,253	3,255	13	33	-	-
L.S.D. (.10)	8	9	9	5	8	7	526	605	329	-	-	-	-
C.V. (%)	14	13	15	16	15	16	11	14	8	-	-	-	-
OATS													
CITATION	88	70	71	-	-	-	2,682	3,139	-	32	40	4- 4	32.1
COKER 81-21	83	69	71	-	-	-	3,444	4,036	-	27	35	4- 9	32.9
COKER 227	64	61	63	-	-	-	3,637	4,183	4,394	25	39	4- 2	30.3
MADISON	62	-	-	-	-	-	2,505	-	-	23	32	4-12	28.1
FLORIDA 502	42	28	-	-	-	-	2,068	1,709	-	19	33	3-30	30.9
TEST MEAN	68	57	69	-	-	-	2,867	3,267	4,394	25	36	-	-
L.S.D. (.10)	18	16	16	-	-	-	520	765	367	-	-	-	-
C.V. (%)	19	21	17	-	-	-	13	17	6	-	-	-	-
BARLEY													
L.S.D. (.10)	-	-	-	-	-	-	-	-	-	-	-	-	-
C.V. (%)	-	-	-	-	-	-	-	-	-	-	-	-	-

CONTINUED

TABLE 10. CHARACTERISTICS OF SMALL GRAINS TESTED IN SOUTHERN ALABAMA, 3-YEAR SUMMARY

CONTINUED

BRAND-VARIETY	AVERAGE YIELD/ACRE GRAIN ONLY			AVERAGE YIELD/ACRE GRAIN AFTER GRAZING			AVERAGE YIELD/ACRE FORAGE ONLY			1985 AVERAGE			
	1985	2-YR.	3-YR.	1985	2-YR.	3-YR.	1985	2-YR.	3-YR.	LODGING	HEIGHT	1/10 HEADED	TEST WT.
	BU.	BU.	BU.	BU.	BU.	BU.	LB.	LB.	LB.	PCT.	IN.	DATE	LB./BU.
RYE													
BONEL	-	-	-	-	-	-	5,191	4,758	-	-	-	-	-
ELBON	-	-	-	-	-	-	5,111	4,603	-	-	-	-	-
MATON	-	-	-	-	-	-	4,972	4,646	-	-	-	-	-
WINTERGRAZER 70	-	-	-	-	-	-	4,940	4,587	4,439	-	-	-	-
GI 85	-	-	-	-	-	-	4,758	4,321	-	-	-	-	-
AFC 20-20	-	-	-	-	-	-	4,547	4,194	4,320	-	-	-	-
GUPLEY'S GRAZER 2000	-	-	-	-	-	-	4,465	4,113	4,049	-	-	-	-
FORAGER	-	-	-	-	-	-	4,393	-	-	-	-	-	-
FL-SYN-T	-	-	-	-	-	-	4,040	-	-	-	-	-	-
TEST MEAN	-	-	-	-	-	-	4,713	4,460	4,270	-	-	-	-
L.S.D. (.10)	-	-	-	-	-	-	790	722	463	-	-	-	-
C.V. (%)	-	-	-	-	-	-	12	12	8	-	-	-	-
TRITICALE													
MORRISON	44	-	-	34	-	-	4,163	-	-	4	49	3-29	44.7
TRICAL 476M	21	-	-	-	-	-	2,812	-	-	12	40	4- 3	39.8
TRICAL 8631A	20	-	-	-	-	-	2,036	-	-	2	34	3-26	39.1
TRICAL 876-10	-	-	-	-	-	-	4,921	-	-	-	-	-	-
WSC 79186	-	-	-	-	-	-	4,254	-	-	-	-	-	-
COUNCIL	-	-	-	-	-	-	3,709	3,580	3,762	-	-	-	-
TEST MEAN	28	-	-	34	-	-	3,649	3,580	3,762	6	41	-	-
L.S.D. (.10)	8	-	-	-	-	-	817	817	502	-	-	-	-
C.V. (%)	20	-	-	-	-	-	16	17	10	-	-	-	-

TABLE 11. PERFORMANCE OF SMALL GRAINS AT CAMDEN, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			GRAIN AFTER GRAZING YIELD/ACRE		FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	BU.	BU.	LB.	LB.
WHEAT							
HW 3015	46	51.3	-	-	-	-	-
SALUDA	43	50.7	-	31	-	2,087	-
MCNAIR 1003	42	51.6	41	27	43	2,588	-
COMPTON	41	53.5	-	39	-	2,595	-
MASSEY	40	50.7	-	37	-	2,556	-
COKER 983	39	50.6	-	20	-	-	-
FLORIDA 302	31	50.9	-	28	-	2,179	-
COKER 762	30	48.8	40	15	34	2,338	3,071
CALDWELL	30	51.7	-	-	-	-	-
SCOTTY	28	49.6	-	24	-	-	-
HUNTER	27	53.2	39	15	35	-	-
TERRAL 812	26	44.8	-	-	-	-	-
COKER 916	25	49.2	36	22	41	-	-
HW3022	23	49.8	-	-	-	-	-
PIKE	14	35.9	-	15	-	2,126	-
FLORIDA 301	13	39.5	19	-	-	-	-
BRADFORD	-	-	-	26	-	2,587	-
COKER 747	-	-	-	18	35	2,043	2,776
STACY	-	-	-	-	-	3,250	-
OMEGA 78	-	-	-	-	-	2,506	-
AUBURN	-	-	-	-	-	2,382	-
FILLMORE	-	-	-	-	-	2,214	-
TYLER	-	-	-	-	-	2,113	-
COKER 68-15	-	-	-	-	-	2,089	2,698
TEST MEAN	31	-	35	24	38	2,377	2,848
L.S.D. (.10)	7	-	7	5	7	434	265
C.V. (%)	16	-	16	16	14	13	7
OATS							
CITATION	83	32.3	97	-	-	3,106	-
COKER 81-21	81	32.6	104	-	-	3,194	-
MADISON	61	-	-	-	-	2,911	-
COKER 227	59	29.6	95	-	-	3,689	5,275
FLORIDA 502	33	28.0	-	-	-	2,310	-
TEST MEAN	63	-	99	-	-	3,042	5,275
L.S.D. (.10)	5	-	20	-	-	131	491
C.V. (%)	6	-	15	-	-	3	7

CONTINUED

TABLE 11. PERFORMANCE OF SMALL GRAINS AT CAMDEN, ALABAMA, 1985

CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			GRAIN AFTER GRAZING YIELD/ACRE		FORAGE ONLY YIELD/ACRE	
	1985	TEST WT.	3-YR. AV.	1985	3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	BU.	BU.	LB.	LB.
RYE							
ELBON	-	-	-	-	-	3,870	-
BONEL	-	-	-	-	-	3,812	-
WINTERGRAZER 70	-	-	-	-	-	3,808	4,519
MATON	-	-	-	-	-	3,765	-
AFC 20-20	-	-	-	-	-	3,685	4,300
GURLEY'S GRAZER 2000	-	-	-	-	-	3,608	4,189
GI 85	-	-	-	-	-	3,459	-
FORAGER	-	-	-	-	-	3,407	-
FL-SYN-T	-	-	-	-	-	3,192	-
TEST MEAN	-	-	-	-	-	3,623	4,336
L.S.D. (.10)	-	-	-	-	-	168	440
C.V. (%)	-	-	-	-	-	3	7
TRITICALE							
MORRISON	49	46.0	-	34	-	2,936	-
TRICAL B631A	31	40.5	-	-	-	2,260	-
TRICAL 476M	18	39.2	-	-	-	2,343	-
WSC 79186	-	-	-	-	-	3,448	-
COUNCIL	-	-	-	-	-	2,693	3,949
TRICAL 876-10	-	-	-	-	-	2,152	-
TEST MEAN	33	-	-	34	-	2,639	3,949
L.S.D. (.10)	14	-	-	34	-	275	275
C.V. (%)	25	-	-	34	-	7	5

TABLE 12. PERFORMANCE OF SMALL GRAINS AT MONROEVILLE, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
FLORIDA 302	61	53.8	-	3,615	-
COKER 983	58	59.2	-	-	-
HW 3015	57	57.5	-	-	-
COKER 916	56	57.7	53	-	-
COKER 762	56	53.5	54	3,106	4,433
HUNTER	53	59.8	50	-	-
BRADFORD	51	56.9	-	3,539	-
COMPTON	49	58.5	-	3,599	-
FLORIDA 301	47	57.5	48	-	-
SCOTTY	46	57.0	-	-	-
TERRAL 812	46	56.0	-	-	-
HW3022	41	55.9	-	-	-
MASSEY	41	55.6	-	3,450	-
MCNAIR 1003	38	47.8	46	3,635	-
SALUDA	37	57.9	-	4,312	-
PIKE	18	51.1	-	3,188	-
STACY	-	-	-	4,507	-
FILLMORE	-	-	-	3,776	-
AUBURN	-	-	-	3,646	-
COKER 747	-	-	-	3,591	4,326
TYLER	-	-	-	3,585	-
COKER 68-15	-	-	-	3,152	3,594
OMEGA 78	-	-	-	2,704	-
TEST MEAN	47	-	50	3,560	4,118
L.S.D. (.10)	9	-	9	530	387
C.V. (%)	13	-	14	11	7
OATS					
MADISON	106	30.7	-	1,960	-
CITATION	104	34.6	55	1,676	-
COKER 81-21	93	36.1	46	3,984	-
COKER 227	77	33.5	42	4,138	5,499
FLORIDA 502	57	35.2	-	1,588	-
TEST MEAN	87	-	48	2,669	5,499
L.S.D. (.10)	17	-	11	594	449
C.V. (%)	13	-	17	15	6

CONTINUED

TABLE 12. PERFORMANCE OF SMALL GRAINS AT MONROEVILLE, ALABAMA, 1985 CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
RYE					
BONEL	-	-	-	5,697	-
ELBON	-	-	-	5,204	-
WINTERGRAZER 70	-	-	-	5,135	4,782
FORAGER	-	-	-	5,133	-
GI 85	-	-	-	5,097	-
AFC 20-20	-	-	-	4,998	4,530
MATON	-	-	-	4,814	-
FL-SYN T	-	-	-	4,793	-
GURLEY'S GRAZER 2000	-	-	-	4,622	4,305
TEST MEAN	-	-	-	5,055	4,539
L.S.D. (.10)	-	-	-	640	410
C.V. (%)	-	-	-	9	7
TRITICALE					
MORRISON	56	48.5	-	4,753	-
TRICAL B631A	28	43.3	-	1,679	-
TRICAL 4764	26	45.4	-	2,573	-
TRICAL 876-10	-	-	-	6,297	-
WSC 79186	-	-	-	5,728	-
COUNCIL	-	-	-	4,560	4,195
TEST MEAN	36	-	-	4,265	4,195
L.S.D. (.10)	13	-	-	1,170	559
C.V. (%)	21	-	-	19	10

TABLE 13. PERFORMANCE OF SMALL GRAINS AT NEWTON, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
COKER 762	63	52.8	56	3,805	3,012
FLORIDA 302	60	51.6	-	3,599	-
TERRAL 812	59	54.8	-	-	-
HW 3015	59	52.6	-	-	-
HUNTER	59	57.7	44	-	-
MCNAIR 1003	57	51.5	41	3,689	-
COKER 983	54	55.3	-	-	-
BRADFORD	53	53.9	-	4,433	-
SALUDA	51	54.6	-	4,670	-
COKER 916	50	52.7	43	-	-
MASSEY	49	54.4	-	3,568	-
SCOTTY	49	52.5	-	-	-
COMPTON	45	55.1	-	4,085	-
HW3022	44	56.3	-	-	-
FLORIDA 301	41	55.4	32	-	-
PIKE	33	49.7	-	3,713	-
COKER 747	-	-	-	4,128	2,895
TYLER	-	-	-	4,033	-
STACY	-	-	-	3,937	-
COKER 68-15	-	-	-	3,788	2,788
FILLMORE	-	-	-	3,781	-
OMEGA 78	-	-	-	3,650	-
AUBURN	-	-	-	3,563	-
TEST MEAN	52	-	43	3,896	2,898
L.S.D. (.10)	8	-	9	308	273
C.V. (%)	11	-	13	6	7
OATS					
COKER 81-21	101	35.9	66	3,705	-
MADISON	96	31.7	-	3,649	-
CITATION	92	35.5	55	3,815	-
COKER 227	61	33.0	37	4,240	3,492
FLORIDA 502	40	32.8	-	2,810	-
TEST MEAN	78	-	53	3,644	3,492
L.S.D. (.10)	12	-	8	478	194
C.V. (%)	10	-	11	9	4

CONTINUED

TABLE 13. PERFORMANCE OF SMALL GRAINS AT BREWTON, ALABAMA, 1985 CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
RYE					
GI 85	-	-	-	4,838	-
ELBON	-	-	-	4,601	-
BONEL	-	-	-	4,545	-
AFC 20-20	-	-	-	4,318	4,552
MATON	-	-	-	4,066	-
WINTERGRAZER 70	-	-	-	4,065	4,203
FORAGEP	-	-	-	4,026	-
GURLEY'S GRAZER 2000	-	-	-	3,767	3,407
FL-SYN-T	-	-	-	3,209	-
TEST MEAN	-	-	-	4,165	4,054
L.S.D. (.10)	-	-	-	780	347
C.V. (%)	-	-	-	13	6
TRITICALE					
MORRISON	35	45.3	-	3,376	-
TRICAL 476M	20	40.7	-	3,495	-
TRICAL 8631A	18	40.5	-	2,566	-
WSC 79186	-	-	-	4,607	-
TRICAL 876-10	-	-	-	3,918	-
COUNCIL	-	-	-	3,510	3,374
TEST MEAN	24	-	-	3,578	3,374
L.S.D. (.10)	4	-	-	1,055	567
C.V. (%)	10	-	-	20	12

TABLE 14. PERFORMANCE OF SMALL GRAINS AT HEADLAND, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
MASSEY	60	49.4	-	4,263	-
HW 3015	58	51.1	-	-	-
FLORIDA 302	55	50.3	-	3,575	-
COKER 983	54	53.4	-	-	-
MCNAIR 1003	53	50.8	-	3,482	-
HUNTER	50	54.7	-	-	-
SALUDA	48	50.4	-	5,127	-
TERRAL 812	41	50.3	-	-	-
COMPTON	41	49.8	-	4,292	-
COKER 762	36	46.2	-	2,751	2,429
SCOTTY	33	50.9	-	-	-
COKER 916	33	49.5	-	-	-
PIKE	32	51.1	-	3,262	-
CALDWELL	32	47.8	-	-	-
HW3022	30	47.6	-	-	-
FLORIDA 301	27	50.8	-	-	-
BRADFORD	-	-	-	4,607	-
STACY	-	-	-	4,097	-
FILLMORE	-	-	-	3,856	-
TYLER	-	-	-	3,516	-
AUBURN	-	-	-	3,228	-
COKER 747	-	-	-	3,191	2,254
COKER 68-15	-	-	-	2,920	2,361
OMEGA 78	-	-	-	2,497	-
TEST MEAN	43	-	-	3,644	2,348
L.S.D. (.10)	11	-	-	854	398
C.V. (%)	17	-	-	17	13
OATS					
COKER 81-21	67	28.9	-	2,598	-
CITATION	60	27.8	-	1,638	-
COKER 227	58	26.2	-	2,509	2,754
MADISON	43	22.3	-	1,821	-
FLORIDA 502	17	26.3	-	857	-
TEST MEAN	49	-	-	1,885	2,754
L.S.D. (.10)	20	-	-	806	379
C.V. (%)	24	-	-	28	10

CONTINUED

TABLE 14. PERFORMANCE OF SMALL GRAINS AT HEADLAND, ALABAMA, 1985 CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
RYE					
MATON	-	-	-	7,987	-
BONEL	-	-	-	7,840	-
ELBON	-	-	-	7,625	-
WINTER GRAZER 70	-	-	-	7,435	4,320
GURLEY'S GRAZER 2000	-	-	-	6,491	4,078
GI 85	-	-	-	6,101	-
AFC 20-20	-	-	-	5,851	4,068
FORAGER	-	-	-	5,543	-
FL-SYN-T	-	-	-	5,185	-
TEST MEAN	-	-	-	6,673	4,155
L.S.D. (.10)	-	-	-	1,477	696
C.V. (%)	-	-	-	16	12
TRITICALE					
MORRISON	43	43.5	-	5,442	-
TRICAL 476M	24	42.3	-	2,792	-
TRICAL 8631A	13	39.3	-	1,204	-
TRICAL 876-10	-	-	-	6,740	-
COUNCIL	-	-	-	4,536	3,165
WSC 79186	-	-	-	2,857	-
TEST MEAN	27	-	-	3,929	3,165
L.S.D. (.10)	8	-	-	1,014	631
C.V. (%)	6	-	-	17	14

TABLE 15. PERFORMANCE OF SMALL GRAINS AT FAIRHOPE, ALABAMA, 1985

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985 TEST WT.		3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
COKER 983	80	59.9	-	-	-
COKER 916	78	56.5	58	-	-
HUNTER	71	59.9	51	-	-
TERRAL 812	68	58.1	-	-	-
BRADFORD	65	56.7	-	4,315	-
SCOTTY	62	54.3	-	-	-
HW 3015	60	53.6	-	-	-
COMPTON	54	55.4	-	4,502	-
FLORIDA 302	54	54.4	-	3,163	-
HW3022	52	55.9	-	-	-
COKER 762	51	53.2	50	2,435	3,873
SALUDA	37	53.1	-	5,113	-
MCNAIR 1003	35	46.0	31	4,155	-
FLORIDA 301	35	53.1	37	-	-
MASSEY	29	52.2	-	3,828	-
PIKE	18	46.8	-	4,430	-
STACY	-	-	-	4,733	-
FILLMORE	-	-	-	4,553	-
COKER 747	-	-	-	4,261	4,298
COKER 68-15	-	-	-	4,096	4,015
AUBURN	-	-	-	4,016	-
TYLER	-	-	-	3,996	-
OMEGA 78	-	-	-	3,986	-
TEST MEAN	53	-	45	4,105	4,062
L.S.D. (.10)	9	-	10	406	264
C.V. (%)	13	-	16	7	5
OATS					
CITATION	101	30.3	84	3,178	-
COKER 81-21	75	30.9	72	3,741	-
FLORIDA 502	64	32.1	-	2,773	-
COKER 227	64	29.1	70	3,607	4,947
MADISON	3	-	-	2,185	-
TEST MEAN	61	-	75	3,097	4,947
L.S.D. (.10)	33	-	29	630	325
C.V. (%)	35	-	19	13	5

CONTINUED

TABLE 15. PERFORMANCE OF SMALL GRAINS AT FAIRHOPE, ALABAMA, 1985
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1985	TEST WT.	3-YR. AV.	1985	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
RYE					
ELBON	-	-	-	4,256	-
WINTERGRAZER 70	-	-	-	4,256	4,374
GI 85	-	-	-	4,248	-
MATON	-	-	-	4,230	-
BONEL	-	-	-	4,060	-
AFC 20-20	-	-	-	3,882	4,152
FORAGER	-	-	-	3,859	-
GURLEY'S GRAZER 2000	-	-	-	3,839	4,266
FL-SYN-T	-	-	-	3,824	-
TEST MEAN	-	-	-	4,050	4,264
L.S.D. (.10)	-	-	-	451	419
C.V. (%)	-	-	-	8	7
TRITICALE					
MORRISON	36	40.1	-	4,311	-
TRICAL 476M	14	31.6	-	2,860	-
TRICAL 8631A	10	31.5	-	2,471	-
TRICAL 876-10	-	-	-	5,496	-
WSC 79186	-	-	-	4,630	-
COUNCIL	-	-	-	3,247	4,128
TEST MEAN	20	-	-	3,836	4,128
L.S.D. (.10)	3	-	-	561	296
C.V. (%)	10	-	-	10	5

Table 16. Powdery Mildew Ratings for Wheat Varieties in Alabama, 1984-85[1/]

Brand-Variety	Northern Alabama[2/]	Central Alabama[3/]	Southern Alabama[4/]
Bradford	2.0	1.2	0.8
Caldwell	4.5	.7	-
Coker 747	5.0	2.7	-
Coker 762	3.0	3.0	4.0
Coker 916	3.7	2.2	2.0
Coker 983	2.0	.5	1.2
Coker 68-15	6.5	4.5	-
Compton	3.0	2.5	1.4
Florida 301	-	1.7	.4
Florida 302	3.5	2.2	0
Hunter	3.5	.7	2.2
HW 3015	4.5	3.5	1.8
HW 3021	3.0	1.2	-
HW 3022	-	4.2	5.8
Massey	6.5	3.2	.8
McNair 1003	3.0	2.0	3.0
Pike	4.3	3.5	1.6
Pioneer 2550	3.0	4.0	-
Rosen	3.0	-	-
Saluda	5.0	3.7	3.8
Scotty	-	2.2	2.6
Stacy	-	1.2	-
Terral 812	4.3	1.0	1.0
Tyler	4.0	.7	-
Wheeler	4.7	-	-

[1/] 0-9 scale: 0 = no disease, 9 = severe disease.

[2/] Average for 3 locations.

[3/] Average for 4 locations.

[4/] Average for 5 locations.

Table 17. Septoria Blotch Ratings for Wheat Varieties in Alabama, 1984-85[1/]

Brand-Variety	Northern Alabama[2/]	Central Alabama[3/]	Southern Alabama[4/]
Bradford	6.3	2.5	2.6
Caldwell	5.3	2.2	-
Coker 747	7.0	2.5	-
Coker 762	5.7	3.0	3.6
Coker 916	5.7	2.2	1.8
Coker 983	6.0	1.7	3.2
Coker 68-15	6.7	2.7	-
Compton	6.0	1.7	1.2
Florida 301	-	3.2	3.0
Florida 302	7.0	2.5	3.4
Hunter	6.7	3.0	3.6
HW 3015	6.3	2.7	3.0
HW 3021	7.7	2.2	-
HW 3022	-	2.5	3.2
Massey	6.3	2.0	2.6
McNair 1003	7.0	2.0	3.6
Pike	6.3	2.7	1.2
Pioneer 2550	6.0	2.2	-
Rosen	7.0	-	-
Saluda	6.3	2.0	2.4
Scotty	-	2.2	2.4
Stacy	-	2.0	-
Terral 812	6.3	2.2	2.8
Tyler	6.7	2.2	-
Wheeler	6.0	-	-

[1/] 0-9 scale: 0 = no disease, 9 = severe disease.

[2/] Average for 3 locations.

[3/] Average for 4 locations.

[4/] Average for 5 locations.

Table 18. Leaf Rust Ratings for Wheat Varieties in Alabama, 1984-85[1/]

Brand-Variety	Northern Alabama[2/]	Central Alabama[3/]	Southern Alabama[4/]
Bradford	1.5	0.5	2.4
Caldwell	5.0	.2	-
Coker 747	2.7	2.0	-
Coker 762	3.0	.7	1.4
Coker 916	3.0	0	.8
Coker 983	2.5	0	.4
Coker 68-15	2.5	1.0	-
Compton	0	.7	.4
Florida 301	-	0	0
Florida 302	0	.7	0
Hunter	1.5	.2	1.4
HW 3015	5.5	1.7	3.0
HW 3021	4.0	3.7	-
HW 3022	-	1.5	1.8
Massey	6.7	3.3	6.6
McNair 1003	5.0	3.2	5.2
Pike	4.3	2.7	5.8
Pioneer 2550	2.5	2.2	-
Rosen	2.5	-	-
Saluda	1.3	.7	2.6
Scotty	-	0	2.2
Stacy	-	.2	-
Terral 812	4.3	.2	.6
Tyler	5.0	2.5	-
Wheeler	3.7	-	-

[1/] 0-9 scale: 0 = no disease, 9 = severe disease.

[2/] Average for 3 locations.

[3/] Average for 4 locations.

[4/] Average for 5 locations.

Table 19. Disease Ratings for Oat Varieties in Alabama, 1984-85

Brand-Variety	Leaf blotch[1]	Leaf rust[1]	Loose smut[2]
Northern Alabama[3]			
Coker 81-21	2.7	0	0
Coker 716	2.7	0	0
Madison	3.7	0	0
Central Alabama[4]			
Citation	1.0	0	0
Coker 81-21	.7	0	0
Coker 716	1.7	0	0
Florida 502	0	0	0
Madison	.7	0	0
Southern Alabama[5]			
Citation	2.8	5.06[6]	0
Coker 81-21	2.2	7.0	0
Coker 227	2.0	5.0	1.2
Florida 502	2.2	0	0
Madison	1.2	8.0	0

[1] 0-9 scale: 0 = no disease, 9 = severe disease.

[2] Number of smutted heads per row.

[3] Average for 3 locations.

[4] Average for 4 locations.

[5] Average for 5 locations.

[6] Data for Gulf Coast Substation; rust did not develop at any other southern location.

Table 20. Disease Ratings for Barley Varieties in Alabama, 1984-85[1/]

Brand-Variety	Stripe	Spot blotch	Leaf rust	Scald
Northern Alabama[2/]				
Anson	2.3	3.3	0	0.6
Barsoy	2.7	1.3	0	0
Boone	2.0	3.3	0	1.0
Keowee	3.3	4.7	0	1.0
Sussex	2.7	3.7	0	0
Volbar	.7	5.7	0	.6
Central Alabama[3/]				
Anson	2.5	5.2	0	0
Barsoy	4.5	5.2	0	0
Boone	3.7	5.2	0	0
Keowee	1.5	4.0	0	0
Red Hill	2.7	6.2	0	0
Sussex	4.5	6.5	0	0
Volbar	1.7	4.0	0	0

[1/] 0-9 scale: 0 = no disease, 9 = severe disease.

[2/] Average for 3 locations.

[3/] Average for 4 locations.

Table 21. Septoria Blotch Ratings for Triticale Varieties in Alabama, 1984-85[1/]

Brand-Variety	Northern Alabama[2/]	Central Alabama[3/]	Southern Alabama[4/]
Morrison	3.7	1.7	3.2
Trical 476 M	5.3	2.0	2.8
Trical B 631A	6.0	1.7	3.2

[1/] 0-9 scale: 0 = no disease, 9 = severe disease.

[2/] Average for 3 locations.

[3/] Average for 4 locations.

[4/] Average for 5 locations.

HESSIAN FLY REPORT

The Hessian fly, Mayetiola destructor (Say), is a serious pest of small grains in most of the United States. It can develop on all small grains except oats, but it shows preference for wheat. This minute black gnat-like fly lays eggs on the upper surface of leaves of small grains in the fall or spring. The maggots crawl into the leaf whorl and feed by abrading the tissue and sucking the plant juices. Plants infested by Hessian fly exhibit lodging, reduced tillering, and stunted growth. The maggot feeds for several weeks to a few months, then transforms into the pupal stage.

The Hessian fly is primarily a cool weather insect and goes through the summer in the pupal stage hidden in straw. Adult flies will emerge from the pupa only when temperatures begin to decrease in the fall or begin to increase in the spring. In the major small grain growing areas of the United States such as the Great Plains, Hessian fly adults emerge over a relatively short period in the fall. This pest can be controlled in those areas by delaying fall planting until danger of fly oviposition is past. This is known as the "fly-free planting date." Because of the moderate fall and winter temperatures in the Southeastern United States, adult flies are present almost every month during this period. Planting date cannot be used as a reliable method of management of Hessian fly in Alabama.

Many small grain varieties have been developed that exhibit some form of resistance to Hessian fly. The use of resistant small grains is one of the best methods of controlling this pest. Many factors influence resistance to Hessian fly and one of the most important is temperature. Certain varieties of wheat that show good resistance in

the cooler regions of the United States have proven to be susceptible when grown in warmer climates. Thus, selecting varieties for use in the Southeastern United States cannot be based entirely on the way the variety has performed in other areas of the country.

Hessian fly is not usually a serious pest in Alabama; however, over the past several years infestations have increased in several areas of the State. During the 1984-85 growing season, severe infestations occured in west-central Alabama involving more than 10,000 acres. The small grain variety trials conducted at both Camden and Prattville had Hessian fly infestations. Damage was severe at Camden and light at Prattville.

After the grain in these tests had matured, samples were collected from each replicate (20 stems at Camden and 10 stems at Prattville) and examined for larvae and pupae of the Hessian fly. The number of insects in each stem was noted and the average number of pupae per stem and the average percent stems infested were calculated. These data are presented in tables 22 and 23. All statistical tests were conducted at the 5% level of significance. Caution should be exercised in using these limited data. Varieties that show little Hessian fly infestation may not be resistant to this species but may merely have escaped infestion by some other means, such as maturity date of location in the field.

Stacy, Pioneer brand 2550, and McNair 1003 are wheat varieties that have shown some resistance to Hessian fly and are also recommended in certain areas of Alabama.

Table 22. Hessian Fly Counts on Wheat and Triticale Varieties, Camden, Ala., 1985

Brand-Variety	Av. pupae/stem	Pct. infested stems
HW 3022	9.90 a[1/]	90.0 ab
Saluda	9.15 a	81.7 abc
Coker 983	7.56 ab	92.5 a
Coker 916	7.27 abc	81.7 abc
Pike	6.61 abc	81.7 abc
Scotty	6.06 abcd	81.7 abc
Caldwell	4.29 bcde	73.3 abcde
Florida 302	4.05 bcde	76.7 abcd
Trical B631A [2/]	3.93 bcde	50.0 cde
Terral 812	3.84 bcde	80.0 abc
Coker 762	3.55 bcde	65.0 abcde
Hunter	3.36 bcde	58.3 bcde
Florida 301	3.22 cde	45.0 de
HW 3015	3.08 cde	53.3 cde
Morrison [2/]	2.03 de	40.0 ef
Trical 476M [2/]	2.02 de	45.0 de
McNair 1003	1.49 e	48.3 cde
Compton	.22 e	13.3 f

[1/] Means in a column followed by the same letter are not different, P=.05.

[2/] Triticale variety.

Table 23. Hessian Fly Counts on Wheat Varieties.
Prattville, Alabama, 1985.

Brand-variety	Av. pupae/stem	Pct. infested stems
HW 3022	0.63 a [1/]	26.7 ab
Pike	.63 a	26.7 ab
Terral 821	.53 a	30.0 ab
Coker 68-15	.50 a	26.7 ab
Tyler	.45 a	35.0 a
Scotty	.45 a	30.0 ab
Coker 916	.43 a	20.0 ab
Coker 762	.40 a	20.0 ab
Coker 983	.40 a	26.7 ab
Hunter	.27 a	26.7 ab
Florida 302	.25 a	20.0 ab
HW 3021	.21 a	23.3 ab
Florida 301	.17 a	13.3 ab
Caldwell	.17 a	13.3 ab
Bradford	.13 a	13.3 ab
HW 3015	.10 a	3.3 ab
Saluda	.10 a	10.0 ab
McNair 1003	.03 a	3.3 ab
Pioneer 2550	0 a	0 b
Stacy	0 a	0 b
Massey	0 a	0 b
Compton	0 a	0 b

[1/] Means in a column followed by the same letter are not different, P=.05.

Table 24. Percent Stand Loss Due to Winter Kill, Grain Only Tests, 1985

Brand-variety	Belle Mina	Crossville	Winfield	Camp Hill	Prattville	Tallassee	Marion Junction	Monroeville	Camden	Headland	Brewton	Fairhope
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
WHEAT												
HW 3021	0	0	0	0	0	0	0	-	-	-	-	-
Coker 737	0	0	0	-	-	-	-	-	-	-	-	-
Pike	0	0	0	0	0	0	0	10	17	0	3	0
Compton	0	0	0	0	0	0	0	0	0	0	0	0
Wheeler	0	0	0	-	-	-	-	-	-	-	-	-
COKER 916	0	0	0	0	0	0	0	0	13	0	3	0
Rosen	0	0	0	-	-	-	-	-	-	-	-	-
HW 3015	0	0	0	0	0	0	0	0	0	0	3	0
Bradford	0	0	0	0	0	0	0	-	-	-	-	-
Hunter	0	0	0	0	0	0	0	5	7	0	0	0
Pioneer 2550	3	0	0	0	0	0	0	-	-	-	-	-
Massey	0	0	0	0	0	0	0	0	0	0	0	0
Tyler	0	0	0	0	0	0	0	-	-	-	-	-
Terral 812	0	0	0	0	0	0	0	3	17	0	0	0
Saluda	0	0	0	0	0	0	0	2	0	0	0	0
Coker 762	0	0	0	0	0	0	0	0	12	0	0	0
Florida 302	0	0	0	0	0	33	0	0	0	0	0	0
Coker 983	2	0	0	0	0	0	0	0	0	0	3	0
Coker 68-15	0	0	0	0	0	0	0	-	-	-	-	-
Caldwell	0	0	0	0	0	0	0	0	0	0	0	0
McNair 1003	0	0	0	0	0	0	0	8	0	0	5	0
Stacy	-	-	-	0	0	0	0	-	-	-	-	-
HW 3022	-	-	-	0	0	0	0	3	10	0	0	0
Scotty	-	-	-	0	0	0	0	0	3	0	0	0
Coker 747	-	-	-	0	0	0	0	-	-	-	-	-
Florida 301	-	-	-	0	0	0	0	2	0	0	2	97

CONTINUED

TABLE 24. Percent Stand Loss Due to Winter Kill, Grain Only Tests, 1985

Brand-variety	Belle Mina	Crossville	Winfield	Camp Hill	Prattville	Tallassee	Marion Junction	Monroeville	Camden	Headland	Brewton	Fairhope
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
OATS												
Coker 81-21	3	7	0	3	60	3	68	0	0	0	0	0
Coker 716	10	2	0	0	8	0	53	-	-	-	-	-
Madison	45	53	0	45	95	30	100	0	0	0	3	0
Citation	-	-	-	62	93	43	92	0	0	0	0	10
Coker 227	-	-	-	-	-	-	-	3	0	0	2	0
Florida 502	-	-	-	98	98	90	100	20	22	0	7	70
BARLEY												
Keowee	0	0	0	0	0	0	7	-	-	-	-	-
Volbar	0	15	0	0	2	0	53	-	-	-	-	-
Barsoy	0	0	0	0	0	0	0	-	-	-	-	-
Boone	0	0	0	0	3	0	20	-	-	-	-	-
Anson	0	0	0	0	0	0	8	-	-	-	-	-
Sussex	0	0	0	0	3	0	0	-	-	-	-	-
Redhill	-	-	-	0	3	0	3	-	-	-	-	-
TRITICALE												
Trical 476M	0	0	0	17	12	10	43	10	0	0	2	57
Morrison	0	0	0	0	13	0	0	-	-	-	-	-
Trical B631A	0	0	0	77	10	20	47	43	0	0	57	87
Trical Grace	-	-	-	-	-	-	-	7	0	0	0	0

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 16-20. For lodging, plant height, and maturity ratings see tables 1, 5, and 10.

NORTHERN ALABAMA

WHEAT	OATS	BARLEY
Caldwell	Coker 716	Keowee
Coker 762	Coker 81-21	Barsoy
Pioneer Brand 2550		Volbar
Coker 747		
N.K.-McNair 1003*		
Coker 916*		
Florida 302**		

CENTRAL ALABAMA

WHEAT	OATS
Pioneer Brand 2550	Coker 716
Coker 762	
N.K.-McNair 1003	
Stacy	
Coker 916	
Caldwell	
Hunter	
Coker 747*	
Saluda**	

SOUTHERN ALABAMA

WHEAT	OATS
Coker 762	Citation
Hunter	Coker 81-21
Coker 916	Coker 227*
Coker 983**	
Florida 302**	

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

**Conditionally recommended on 2 years' data.

For those who wish to graze small grains before grain harvest, varietal selection should be from those varieties recommended either for grain or for forage. Some varieties are recommended for both uses, but if not, the relative importance of grain or forage to the individual farmer should be the major consideration for varietal selection.

VARIETIES RECOMMENDED FOR FORAGE ONLY

Variety recommendations for the three regions are based on 3-year regional averages of full-season forage yield in tables 1, 5, and 10. Varieties are listed alphabetically.

NORTHERN ALABAMA

RYE	WHEAT	OATS	BARLEY
Wintergrazer 70	Caldwell	Coker 716	Keowee
AFC 20-20	Coker 68-15	Coker 227	Barsoy
Gurley's Grazer 2000	N.K.-McNair 1003		
	Georgia 1123*		
	Coker 747*		

CENTRAL ALABAMA

RYE	WHEAT	OATS	BARLEY
Wintergrazer 70	Caldwell	Coker 716	Barsoy
AFC 20-20	Auburn	Coker 227	
Gurley's Grazer 2000	N.K.-McNair		
	Fillmore		
	Stacy**		
	Massey**		

SOUTHERN ALABAMA

RYE	WHEAT	OATS
Wintergrazer 70	Coker 762	Coker 227
AFC 20-20	Coker 747	
	Coker 68-15*	

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

**Conditionally recommended on 2 years' data.

For those who wish to harvest grain following grazing, varietal selection should be from those varieties recommended either for grain or for forage. Some varieties are recommended for both uses, but if not, the relative importance of forage or grain to the individual farmer should be the major consideration for varietal selection.

SOURCES OF SEED

WHEAT

Auburn, Caldwell, Compton, Fillmore, Scotty	Ag. Alumni Seed Imp. Assoc., Inc. Romney, Indiana
Coker (all varieties) McNair 1003, HW 3015, HW 3021, HW 3022	C-R Seeds Hartsville, South Carolina
Hunter	Agripro Research Brookston, Indiana
Rosen	Rice Branch Experiment Station Stuttgart, Arkansas
Florida 301, Florida 302	Florida Foundation Seed Prod., Inc. Greenwood, Florida
Georgia 1123, Omega 78, Stacy	Georgia Seed Development Comm. Athens, Georgia
Pike	Missouri Foundation Seeds Columbia, Missouri
Pioneer Brand 2550	Pioneer Hi-Bred International, Inc. Tipton, Indiana
Bradford	Foundation Seed Service College Station, Texas
Terral 812	Terral-Norris Seed Co. Lake Providence, Louisiana
Tyler, Wheeler, Massey, Saluda	Department of Agronomy Virginia Polytechnic Inst. Blacksburg, Virginia

OATS

Coker (all varieties)	Coker's Pedigreed Seed Co. Hartsville, South Carolina
Florida 501, Florida 502	Univ. of Florida Agric. Research Center, Quincy, Florida
Madison	North Carolina Foundation Seed Producers, Inc. Raleigh, North Carolina

OATS (cont.)

Citation	Terral-Norris Seed Co. Lake Providence, Louisiana

RYE

AFC 20-20	Alabama Farmer's Co-op Decatur, Alabama
Bonel, Maton, Elbon	Noble Foundation, Ardmore Oklahoma
Gurley's Grazer 2000, GI-85	Gurley's, Inc. Selma, North Carolina
FL-SYN-T	Univ. of Florida Agric. Research Center, Quincy, Florida
N.K. SS-1, Vitagraze	Northrup King, Inc. Laurinburg, North Carolina
Wintergrazer 70	Pennington Seed, Inc. Madison, Georgia
Forager	Sunrise, Inc. Auburn, Alabama

BARLEY

Barsoy	Department of Agronomy, University of Kentucky, Lexington, Kentucky
Keowee	South Carolina Crop Imp. Assoc. Clemson, South Carolina
Sussex	Department of Agronomy Virginia Polytechnic Inst. Blacksburg, Virginia
Volbar	Department of Agronomy, University of Tennessee, Knoxville, Tennessee
Anson, Boone	North Carolina Foundation Seed Producers, Inc. Raleigh, North Carolina

TRITICALE

Council, Morrison	Alabama A & M University Normal, Alabama
Trical (all varieties)	Arco Seed Co. Hereford, Texas
WSC 79186	Western Seed Co. Albany, Oregon