The 1986 Alabama Performance Comparison of Small Grain Varieties

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by

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THE 1986 ALABAMA PERFORMANCE COMPARISON OF SMALL GRAIN VARIETIES

W. C. Johnson and Donald L. Thurlow[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 on varietal yield and characteristics. 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. 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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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 early 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 with a flail-type mower each time they reached 6 inches in height. A sample was weighed green from each plot, then dried and reweighed. The percent dry matter figure from these weights was used to calculate 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 per bushel 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 are given in tables 16 through 21. Dr. Robert T. Gudauskas, Department of Plant Pathology, made the disease ratings at each location. Most ratings were taken when the majority of varieties were in the soft dough stage of maturity. Any disease rating reported for northern Alabama were made only at Winfield. The effects of extreme drought during the period of usual disease development precluded normal disease development and comparative ratings at several locations for certain crops and diseases. This was especially severe in northern Alabama and is responsible for the lack of complete data in that area.

Hessian fly was again a serious pest in certain small grain fields of Alabama this season. Dr. Paul M. Estes, Department of Zoology-Entomology, rated several small grain variety tests. His report is on page 46.

DISCUSSION

Growing conditions and variety 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.

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

BRAND-VARIETY	AVERAGE YIELD/ACRE GRAIN ONLY			AVERAGE YIELD/ACRE FORAGE ONLY			1986 AVERAGE			
	1986	2-YR.	3-YR.	1986	2-YR.	3-YR.	LODGING	HEIGHT	1/10 HEADED	TEST WT.
	BU.	BU.	BU.	LB.	LB.	LB.	PCT.	IN.	DATE	LB./BU.
WHEAT										
PIONEER 2550	25	32	42	2,122	2,614	-	0	26	4-22	54.8
HW 3015	24	35	-	2,169	-	-	1	28	4-20	53.6
MASSEY	23	34	45	2,045	2,369	2,790	0	26	4-19	53.3
SALUDA	23	34	41	1,371	2,048	-	0	23	4-18	54.6
AUBURN	22	-	-	2,882	-	-	0	27	4-25	55.4
FILLMORE	22	-	-	3,057	-	-	1	29	4-27	54.9
CALDWELL	22	34	41	2,642	2,967	3,116	1	29	4-17	53.8
COKER 916	21	31	36	1,493	-	-	7	23	4-15	51.6
PIONEER 2551	21	-	-	2,362	-	-	0	24	4-21	50.6
MCNAIR 1003	20	30	39	1,836	2,135	2,546	1	23	4-20	48.5
ADDER	20	-	-	2,547	-	-	0	23	4-17	50.5
TYLER	19	29	40	1,192	1,896	2,426	2	27	4-22	53.7
HW 3022	19	-	-	1,176	-	-	9	25	4-19	53.5
COKER 93-23	19	-	-	1,084	-	-	6	21	4-18	51.0
WHEELER	18	30	36	1,210	-	-	0	26	4-20	53.9
COMPTON	18	32	-	2,562	2,757	-	0	26	4-19	55.2
MAGNUM	17	-	-	2,430	-	-	0	23	4-17	52.7
STACY	17	-	-	2,229	-	-	0	26	4-20	52.5
COKER 983	16	28	38	1,389	-	-	2	22	4-20	54.1
PIKE	16	24	-	-	-	-	9	26	4-22	51.0
FLORIDA 302	13	31	45	1,143	1,843	2,342	4	24	4-23	52.5
TERRAL 817	13	-	-	1,184	-	-	13	22	4-19	50.7
BRADFORD	12	26	-	1,395	1,970	-	2	28	4-18	52.8
HUNTER	12	24	35	-	-	-	2	20	4-18	53.3
COKER 92-27	10	-	-	804	-	-	4	22	4-16	50.7
TERRAL 812	10	24	-	596	-	-	14	21	4-22	46.9
TEST MEAN	18	30	40	1,700	2,289	2,644	3	25	-	-
L.S.D. (.10)	6	6	8	460	428	419	-	-	-	-
C.V. (%)	25	15	16	19	14	12	-	-	-	-
OATS										
HARPOOL 833	37	-	-	1,341	-	-	0	25	4-24	31.5
COKER 227	24	-	-	1,630	2,625	2,526	6	25	4-22	30.9
CITATION	21	-	-	1,041	-	-	0	23	4-23	31.6
COKER 716	19	49	53	1,699	2,853	2,810	2	25	4-25	31.0
COKER 820	12	-	-	1,100	-	-	1	22	4-20	31.3
MADISON	11	32	-	901	1,915	-	0	20	4-27	28.6
FLORIDA 501	1	-	-	857	-	-	0	20	4-26	-
FLORIDA 502	0	-	-	536	-	-	0	22	4-23	-
TEST MEAN	16	41	53	1,130	2,464	2,668	1	23	-	-
L.S.D. (.10)	10	11	10	340	318	361	-	-	-	-
C.V. (%)	44	20	14	22	9	10	-	-	-	-

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 FORAGE ONLY			1986 AVERAGE			
	1986	2-YR.	3-YR.	1986	2-YR.	3-YR.	LODGING	HEIGHT	1/10 HEADED	TEST WT.
	BU.	BU.	BU.	LB.	LB.	LB.	PCT.	IN.	DATE	LB./BU.
BARLEY										
HYSOR	56	-	-	2,539	-	-	0	25	4-13	36.8
SUSSEX	35	39	39	993	2,158	2,520	3	24	4-13	35.9
ANSON	34	40	-	1,303	2,305	-	2	26	4-18	35.3
BARSOY	33	42	42	1,827	2,367	2,610	0	24	4-11	32.1
KEOWEE	32	41	42	1,865	2,537	2,706	0	24	4-18	37.9
VOLBAR	31	38	37	1,171	-	-	3	26	4-17	30.9
BOONE	28	31	-	2,172	2,414	-	1	24	4-16	36.4
TEST MEAN	35	38	40	1,696	2,356	2,612	1	25	-	-
L.S.D. (.10)	9	8	10	652	572	552	-	-	-	-
C.V. (%)	19	16	19	28	18	16	-	-	-	-
RYE										
MATON	-	-	-	4,154	-	-	-	-	-	-
BONEL	-	-	-	3,951	3,971	4,300	-	-	-	-
AFC 20-10X	-	-	-	3,917	-	-	-	-	-	-
ELBON	-	-	-	3,879	3,657	4,029	-	-	-	-
WINTERGRAZER 70	-	-	-	3,836	3,684	4,040	-	-	-	-
GI 87X	-	-	-	3,689	-	-	-	-	-	-
GURLEY'S GRAZER 2000	-	-	-	3,580	3,253	3,771	-	-	-	-
AFC 20-20	-	-	-	3,530	3,329	3,732	-	-	-	-
GI 85	-	-	-	3,529	3,345	3,740	-	-	-	-
FORAGER	-	-	-	3,439	3,089	-	-	-	-	-
WREN'S ABRUZZI 86	-	-	-	3,383	-	-	-	-	-	-
N.K. VITAGRAZE	-	-	-	3,222	3,033	3,536	-	-	-	-
FL EXP-201ES79-1	-	-	-	3,159	-	-	-	-	-	-
N.K. SS-1	-	-	-	2,870	-	-	-	-	-	-
FL-SYN-T	-	-	-	2,409	-	-	-	-	-	-
FLORIDA 401	-	-	-	1,945	-	-	-	-	-	-
TEST MEAN	-	-	-	3,406	3,420	3,879	-	-	-	-
L.S.D. (.10)	-	-	-	538	497	608	-	-	-	-
C.V. (%)	-	-	-	12	11	12	-	-	-	-
TRITICALE										
MORRISON	40	44	-	2,679	2,996	-	5	41	4-19	45.6
COUNCIL	27	-	-	1,311	2,301	2,491	3	38	4-22	40.1
BEAGLE 82	10	-	-	-	-	-	0	29	4-17	40.2
TRICAL 0631A	8	23	-	-	-	-	0	30	4-17	38.2
FLORIDA 201	5	-	-	-	-	-	2	31	4-19	39.1
TRICAL 876-10	-	-	-	3,403	3,600	-	-	-	-	-
TRICAL 111	-	-	-	2,239	-	-	-	-	-	-
TEST MEAN	18	34	-	2,409	2,966	2,491	2	34	-	-
L.S.D. (.10)	5	7	-	737	559	559	-	-	-	-
C.V. (%)	22	12	-	22	14	16	-	-	-	-

TABLE 2. PERFORMANCE OF SMALL GRAINS AT BELLE MINA, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
COKER 93-23	32	54.6	-	321	-
PIONEER 2550	31	55.9	52	1,238	-
CALDWELL	30	55.1	56	2,296	2,613
PIKE	29	54.9	-	-	-
FILLMORE	29	57.2	-	2,202	-
PIONEER 2551	29	54.3	-	1,544	-
MASSEY	29	56.1	52	1,436	2,276
SALUDA	28	55.8	44	362	-
AUBURN	28	57.2	-	1,758	-
MCNAIR 1003	27	53.9	46	1,216	2,058
ADDER	27	51.2	-	2,032	-
HW 3022	27	55.3	-	479	-
WHEELER	26	55.5	39	540	-
STACY	25	54.1	-	1,805	-
MAGNUM	25	54.2	-	2,262	-
HW 3015	25	54.4	-	1,860	-
TYLER	25	55.3	43	497	1,791
COKER 916	24	55.0	45	1,348	-
COMPTON	20	55.1	-	1,894	-
BRADFORD	20	53.7	-	1,037	-
COKER 983	19	55.7	45	1,267	-
COKER 92-27	18	55.8	-	604	-
TERRAL 812	17	54.1	-	259	-
FLORIDA 302	17	54.6	55	653	1,907
TERRAL 817	15	52.6	-	890	-
HUNTER	13	54.2	44	-	-
TEST MEAN	24	-	47	1,242	2,129
L.S.D. (.10)	6	-	12	431	339
C.V. (%)	18	-	19	25	12
OATS					
HARPOOL 833	42	32.7	-	724	-
COKER 227	33	34.3	-	998	1,330
CITATION	22	30.8	-	735	-
COKER 820	16	31.4	-	741	-
COKER 716	12	31.2	29	1,149	1,787
MADISON	7	31.8	-	592	-
FLORIDA 501	2	-	-	483	-
FLORIDA 502	0	-	-	368	-
TEST MEAN	17	-	29	724	1,558
L.S.D. (.10)	15	-	12	158	273
C.V. (%)	61	-	22	15	13

CONTINUED

TABLE 2. PERFORMANCE OF SMALL GRAINS AT BELLE MINA, ALABAMA, 1986 CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE 1986 TEST WT.		3-YR. AV.	FORAGE ONLY YIELD/ACRE 1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
WYSOR	67	38.7	-	2,680	-
ANSON	45	38.6	-	604	-
SUSSEX	43	39.6	51	631	1,801
BARSOY	32	32.2	50	1,776	2,251
KEOWEE	28	38.6	50	1,260	1,880
VOLBAR	21	32.6	31	385	-
BOONE	19	39.2	-	1,330	-
TEST MEAN	36	-	46	1,238	1,977
L.S.D. (.10)	13	-	15	314	280
C.V. (%)	25	-	23	17	10
RYE					
HATON	-	-	-	3,584	-
WINTERGRAZER 70	-	-	-	3,564	3,957
AFC 20-10X	-	-	-	3,564	-
ELBON	-	-	-	3,360	3,759
GI 87X	-	-	-	3,258	-
AFC 20-20	-	-	-	3,156	3,610
GURLEY'S GRAZER 2000	-	-	-	3,129	3,540
BONEL	-	-	-	3,061	4,129
GI 85	-	-	-	2,991	3,367
WREN'S ABRUZZI 86	-	-	-	2,893	-
FORAGER	-	-	-	2,856	-
FL EXP-201ES79-1	-	-	-	2,747	-
N.K. VITAGRAZE	-	-	-	2,647	3,315
N.K. SS-1	-	-	-	2,515	-
FL-SYN-T	-	-	-	2,112	-
FLORIDA 401	-	-	-	1,283	-
TEST MEAN	-	-	-	2,920	3,668
L.S.D. (.10)	-	-	-	357	473
C.V. (%)	-	-	-	9	9
TRITICALE					
MORRISON	34	46.0	-	2,076	-
COUNCIL	25	42.8	-	1,075	1,624
BEAGLE 82	10	41.4	-	-	-
TRICAL 9631A	8	43.2	-	-	-
FLORIDA 201	2	-	-	-	-
TRICAL 876-10	-	-	-	2,597	-
TRICAL 111	-	-	-	1,689	-
TEST MEAN	16	-	-	1,859	1,624
L.S.D. (.10)	5	-	-	220	147
C.V. (%)	21	-	-	7	6

TABLE 3. PERFORMANCE OF SMALL GRAINS AT CROSSVILLE, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.	3-YR. AV.		1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
HW 3015	24	55.5	-	1,751	-
SALUDA	18	55.4	46	1,152	-
COKER 916	17	54.2	41	981	-
MCNAIR 1003	16	51.9	42	1,681	2,439
COKER 983	15	55.4	42	1,120	-
HW 3022	15	56.7	-	598	-
PIONEER 2550	15	54.8	39	1,073	-
FILLMORE	13	53.7	-	1,131	-
MASSEY	13	53.1	45	1,857	2,675
COMPTON	12	56.7	-	2,177	-
TYLER	12	55.3	45	564	2,325
WHEELER	11	55.8	42	683	-
COKER 93-21	10	52.2	-	972	-
PIONEER 2551	9	51.6	-	2,437	-
CALDWELL	9	54.8	34	1,684	2,515
HUNTER	9	55.8	36	-	-
ADDER	9	52.3	-	2,581	-
STACY	8	52.4	-	1,722	-
FLORIDA 302	8	53.6	49	823	2,297
AUBURN	8	54.7	-	2,535	-
MAGNUM	8	53.6	-	2,053	-
TERRAL 817	8	53.4	-	1,041	-
COKER 92-27	5	55.2	-	339	-
BRADFORD	4	53.2	-	1,176	-
PIKE	3	50.6	-	-	-
TERRAL 812	1	-	-	353	-
TEST MEAN	11	-	42	1,437	2,450
L.S.D. (.10)	6	-	5	540	418
C.V. (%)	40	-	8	27	13
OATS					
COKER 716	22	29.7	70	1,596	2,926
COKER 227	20	29.1	-	1,666	2,803
HARPOOL 811	19	28.0	-	1,194	-
CITATION	9	-	-	1,566	-
COKER 820	8	29.5	-	1,415	-
MADISON	7	24.4	-	1,369	-
FLORIDA 501	0	-	-	1,262	-
FLORIDA 502	0	-	-	825	-
TEST MEAN	11	-	70	1,362	2,865
L.S.D. (.10)	4	-	4	466	418
C.V. (%)	27	-	5	24	10

CONTINUED

TABLE 3. PERFORMANCE OF SMALL GRAINS AT CROSSVILLE, ALABAMA, 1986
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE 1986			FORAGE ONLY YIELD/ACRE 1986	
	TEST WT.	3-YR. AV.		3-YR. AV.	
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
WYSOR	54	36.3	-	1,458	-
BARSOY	42	33.5	54	1,573	2,579
KEOWEE	41	37.0	59	1,740	2,754
BOONE	38	37.8	-	1,770	-
VOLBAR	37	29.0	55	818	-
SUSSEX	35	35.8	50	979	2,870
ANSON	30	35.0	-	1,046	-
TEST MEAN	40	-	55	1,341	2,734
L.S.D. (.10)	7	-	8	834	655
C.V. (%)	12	-	11	43	17
RYE					
MATON	-	-	-	4,484	-
WINTERGRAZER 70	-	-	-	4,359	4,149
AFC 20-10X	-	-	-	4,255	-
AFC 20-20	-	-	-	4,253	3,971
ELBON	-	-	-	4,227	3,920
GI 85	-	-	-	4,210	3,899
GI 87X	-	-	-	4,191	-
FORAGER	-	-	-	4,139	-
BONEL	-	-	-	4,061	4,085
GURLEY'S GRAZER 2000	-	-	-	3,992	3,737
WREN'S ABRUZZI 86	-	-	-	3,790	-
N.K. VITAGRAZE	-	-	-	3,782	3,524
FL EXP-201ES79-1	-	-	-	3,320	-
N.K. SS-1	-	-	-	3,016	-
FL-SYN-T	-	-	-	2,359	-
FLORIDA 401	-	-	-	1,749	-
TEST MEAN	-	-	-	3,762	3,898
L.S.D. (.10)	-	-	-	411	383
C.V. (%)	-	-	-	8	7
TRITICALE					
MORRISON	56	47.1	-	3,207	-
COUNCIL	36	40.8	-	1,005	2,476
BEAGLE 82	0	-	-	-	-
TRICAL B631A	0	-	-	-	-
FLORIDA 201	0	-	-	-	-
TRICAL 876-10	-	-	-	4,765	-
TRICAL 111	-	-	-	3,136	-
TEST MEAN	18	-	-	3,028	2,476
L.S.D. (.10)	5	-	-	426	341
C.V. (%)	17	-	-	9	10

TABLE 4. PERFORMANCE OF SMALL GRAINS AT WINFIELD, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
AUBURN	31	54.4	-	4,352	-
PIONEER 2550	30	53.8	34	4,057	-
MASSEY	29	50.8	35	2,841	3,419
CALDWELL	27	51.6	34	3,947	4,219
FILLMORE	24	53.9	-	3,839	-
PIONEER 2551	24	45.9	-	3,106	-
ADDER	24	48.0	-	3,028	-
SALUDA	23	52.6	33	2,600	-
COMPTON	23	53.9	-	3,615	-
HW 3015	23	50.9	-	2,895	-
COKER 916	22	45.6	21	2,151	-
TYLER	21	50.4	33	2,515	3,162
MAGNUM	19	50.4	-	2,973	-
WHEELER	19	50.5	28	2,408	-
STACY	17	51.1	-	3,161	-
MCNAIR 1003	16	39.6	28	2,611	3,142
TERRAL 817	15	46.0	-	1,621	-
COKER 983	15	51.3	29	1,772	-
PIKE	15	47.5	-	-	-
HW 3022	15	48.4	-	2,450	-
HUNTER	14	49.8	26	-	-
COKER 93-23	14	46.1	-	1,959	-
FLORIDA 302	14	49.4	32	1,954	2,822
BRADFORD	13	51.5	-	1,971	-
TERRAL 812	11	39.7	-	1,177	-
COKER 92-27	7	41.0	-	1,469	-
TEST MEAN	19	-	30	2,686	3,353
L.S.D. (.10)	6	-	6	418	495
C.V. (%)	24	-	15	11	11
OATS					
HARPOOL 833	50	33.7	-	2,105	-
CITATION	32	32.5	-	823	-
COKER 716	22	32.0	61	2,352	3,718
MADISON	19	29.5	-	743	-
COKER 227	19	29.3	-	2,227	3,444
COKER 820	13	33.1	-	1,145	-
FLORIDA 501	6	-	-	825	-
FLORIDA 502	0	-	-	415	-
TEST MEAN	20	-	61	1,329	3,581
L.S.D. (.10)	8	-	13	372	401
C.V. (%)	27	-	15	19	9

CONTINUED

TABLE 4. PERFORMANCE OF SMALL GRAINS AT WINFIELD, ALABAMA, 1986
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
WYSOR	45	35.5	-	3,480	-
VOLBAR	37	31.0	23	2,309	-
BOONE	27	32.3	-	3,415	-
ANSON	27	32.4	-	2,260	-
SUSSEX	27	32.3	16	1,368	2,888
KEOWEE	26	38.0	15	2,597	3,483
BARSOY	24	30.6	21	2,133	3,002
TEST MEAN	30	-	19	2,509	3,124
L.S.D. (.10)	9	-	7	792	674
C.V. (%)	19	-	25	22	15
RYE					
RONEL	-	-	-	4,731	4,685
MATON	-	-	-	4,395	-
ELBON	-	-	-	4,051	4,408
AFC 20-10X	-	-	-	3,934	-
GURLEY'S GRAZER 2000	-	-	-	3,621	4,038
GI 87X	-	-	-	3,617	-
WINTERGRAZER 70	-	-	-	3,586	4,015
WREN'S ABRUZZI 86	-	-	-	3,467	-
FL EXP-201ES79-1	-	-	-	3,409	-
GI 85	-	-	-	3,387	3,955
FORAGER	-	-	-	3,322	-
N.K. VITAGRAZE	-	-	-	3,239	3,770
AFC 20-20	-	-	-	3,181	3,614
N.K. SS-1	-	-	-	3,079	-
FLORIDA 401	-	-	-	2,802	-
FL-SYN-T	-	-	-	2,755	-
TEST MEAN	-	-	-	3,536	4,069
L.S.D. (.10)	-	-	-	781	871
C.V. (%)	-	-	-	16	16
TRITICALE					
MORRISON	31	43.8	-	2,753	-
COUNCIL	20	36.7	-	1,852	3,372
BEAGLE 82	19	39.1	-	-	-
TRICAL 8631A	15	33.2	-	-	-
FLORIDA 201	12	39.1	-	-	-
TRICAL 876-10	-	-	-	2,846	-
TRICAL 111	-	-	-	1,892	-
TEST MEAN	19	-	-	2,336	3,372
L.S.D. (.10)	7	-	-	1,067	855
C.V. (%)	25	-	-	31	18

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			1986 AVERAGE			
	1986	2-YR.	3-YR.	1986	2-YR.	3-YR.	LODGING	HEIGHT	1/10 HEADED	TEST WT.
	BU.	BU.	BU.	LB.	LB.	LB.	PCT.	IN.	DATE	LB./BU.
WHEAT										
HW 3015	42	47	-	3,026	-	-	2	32	4-19	53.8
PIONEER 2551	41	-	-	2,921	-	-	3	29	4-20	52.9
COMPTON	40	45	-	2,894	2,791	-	1	29	4-20	56.3
SALUDA	40	45	54	2,628	2,598	-	1	29	4-18	54.5
CALDWELL	38	41	47	2,962	2,650	3,256	3	31	4-20	53.8
PIONEER 2550	36	40	48	2,952	2,785	-	2	30	4-26	54.2
ADDER	36	-	-	2,280	-	-	4	28	4-18	51.6
MCNAIR 1003	36	41	49	2,550	2,343	3,079	1	29	4-19	50.1
MASSEY	35	41	47	2,690	2,374	3,358	21	32	4-17	53.4
STACY	32	40	46	2,925	2,675	3,490	8	32	4-18	53.8
AUBURN	31	-	-	2,570	2,480	3,065	1	30	5- 2	55.9
MAGNUM	30	-	-	2,140	-	-	2	28	4-18	53.8
FILLMORE	27	-	-	2,548	2,349	3,012	9	32	5- 3	54.3
FLORIDA 302	27	31	43	2,108	1,817	2,757	2	30	4-20	53.8
COKER 916	26	36	44	2,167	-	-	19	25	4-16	53.1
COKER 983	25	34	41	1,986	-	-	2	26	4-18	55.3
TYLER	25	30	38	2,025	1,839	2,764	2	29	4-23	53.4
HW 3022	24	32	-	2,176	-	-	12	30	4-19	55.1
BRADFORD	24	34	-	2,229	2,008	-	18	33	4-18	55.4
COKER 93-23	23	-	-	1,941	-	-	6	26	4-17	52.4
WHEELER	23	-	-	1,964	-	-	1	31	4-19	55.6
HUNTER	21	32	41	-	-	-	3	23	4-16	55.8
PIKE	19	24	-	-	-	-	8	22	4-20	54.3
TERRAL 812	16	29	-	1,558	-	-	1	20	4-19	53.6
TERRAL 817	16	-	-	1,927	-	-	8	28	4-18	53.7
COKER 92-27	12	-	-	1,900	-	-	5	27	4-16	54.1
FLORIDA 301	-	-	-	1,571	-	-	-	-	-	-
TEST MEAN	29	37	45	2,346	2,392	3,098	5	28	-	-
L.S.D. (.10)	6	6	8	386	400	622	-	-	-	-
C.V. (%)	15	12	12	12	12	15	-	-	-	-
OATS										
COKER 820	56	-	-	3,124	-	-	5	33	4-18	30.2
CITATION	51	41	48	3,334	-	-	4	32	4-23	29.5
HARPOOL 833	50	-	-	3,526	-	-	3	30	4-24	28.8
MADISON	42	37	-	2,369	2,065	-	0	25	4-24	28.6
COKER 227	37	-	-	3,679	2,790	3,586	1	31	4-23	26.5
COKER 716	36	54	55	3,170	2,777	3,779	2	29	4-28	27.9
FLORIDA 502	15	21	20	1,744	1,608	1,664	1	27	4-18	29.1
FLORIDA 501	25	-	-	1,662	-	-	12	27	4-21	27.8
TEST MEAN	41	33	44	2,826	2,110	3,010	4	29	-	-
L.S.D. (.10)	11	11	13	537	2,255	1,864	-	-	-	-
C.V. (%)	19	24	22	14	72	46	-	-	-	-

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			1986 AVERAGE			
	1986	2-YR.	3-YR.	1986	2-YR.	3-YR.	LODGING	HEIGHT	1/10 HEADED	TEST WT.
	BU.	BU.	BU.	LB.	LB.	LB.	PCT.	IN.	DATE	LB./BU.
BARLEY										
WYSOR	47	-	-	2,767	-	-	0	23	4-18	37.7
BARSOY	36	49	-	1,885	1,820	2,663	2	26	4-11	37.0
VOLBAR	34	43	-	2,023	-	-	16	28	4-20	35.3
AUSTIN	33	38	-	1,843	1,664	-	4	25	4-23	36.9
SUSSEX	30	42	-	1,981	1,798	2,719	7	23	4-11	38.2
KEOWEE	30	34	-	1,655	-	-	0	21	4-24	37.2
BOONE	27	28	-	1,896	1,647	-	0	21	4-22	37.3
TEST MEAN	34	39	-	2,007	1,733	2,691	4	24	-	-
L.S.D. (.10)	7	8	-	347	298	423	-	-	-	-
C.V. (%)	16	16	-	13	13	12	-	-	-	-
RYE										
WINTERGRAZER 70	-	-	-	3,893	3,363	3,811	-	-	-	-
GI 85	-	-	-	3,844	3,205	3,683	-	-	-	-
AFC 20-10X	-	-	-	3,818	-	-	-	-	-	-
MATON	-	-	-	3,761	3,216	3,651	-	-	-	-
BONEL	-	-	-	3,718	3,234	3,730	-	-	-	-
AFC 20-20	-	-	-	3,684	3,165	3,622	-	-	-	-
WREN'S ABRUZZI 86	-	-	-	3,527	-	-	-	-	-	-
GURLEY'S GRAZER 2000	-	-	-	3,486	2,978	3,407	-	-	-	-
GI 87X	-	-	-	3,475	-	-	-	-	-	-
ELBON	-	-	-	3,471	2,902	3,380	-	-	-	-
FL EXP-201FS79-1	-	-	-	3,426	-	-	-	-	-	-
N.K. SS-1	-	-	-	3,319	-	-	-	-	-	-
N.K. VITAGRAZE	-	-	-	3,305	2,807	3,247	-	-	-	-
FORAGER	-	-	-	3,229	2,760	-	-	-	-	-
FLORIDA 401	-	-	-	3,008	-	-	-	-	-	-
FL-SYN-1	-	-	-	2,951	2,562	-	-	-	-	-
TEST MEAN	-	-	-	3,495	3,019	3,566	-	-	-	-
L.S.D. (.10)	-	-	-	520	445	521	-	-	-	-
C.V. (%)	-	-	-	11	11	11	-	-	-	-
TRITICALE										
MORRISON	34	35	-	2,747	2,505	-	0	43	4-22	46.5
BEAGLE 82	25	-	-	-	-	-	4	30	4-13	45.0
COUNCIL	22	-	-	2,537	2,125	2,900	5	38	4-27	40.9
FLORIDA 201	20	-	-	-	-	-	9	31	4-13	46.0
TRICAL B631A	19	22	-	-	-	-	4	31	4-14	44.7
TRICAL 876-10	-	-	-	2,804	2,495	-	-	-	-	-
TRICAL 111	-	-	-	2,271	-	-	-	-	-	-
TEST MEAN	24	29	-	2,590	2,375	2,900	4	35	-	-
L.S.D. (.10)	10	10	-	315	380	380	-	-	-	-
C.V. (%)	29	26	-	9	12	10	-	-	-	-

TABLE 6. PERFORMANCE OF SMALL GRAINS AT MARION JUNCTION, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
COMPTON	58	57.1	-	-	-
CALDWELL	53	55.3	62	-	-
PIONEER 2551	53	53.5	-	-	-
PIONEER 2550	51	56.0	60	-	-
SALUDA	50	53.7	59	-	-
ADDER	49	52.5	-	-	-
AUBURN	47	56.9	-	-	-
HW 3015	46	54.0	-	-	-
MCNAIR 1003	45	50.8	58	-	-
BRADFORD	44	56.1	-	-	-
COKER 93-23	42	51.5	-	-	-
FILLMORE	41	56.5	-	-	-
WHEELER	40	55.1	-	-	-
COKER 916	39	51.3	49	-	-
FLORIDA 302	38	51.8	48	-	-
MAGNUM	37	53.4	-	-	-
HW 3022	35	53.0	-	-	-
MASSEY	35	52.3	56	-	-
STACY	34	54.0	52	-	-
COKER 983	33	52.7	40	-	-
TYLER	33	52.5	41	-	-
PIKE	30	53.1	-	-	-
HUNTER	25	52.9	43	-	-
TERRAL 817	25	52.4	-	-	-
TERRAL 812	23	52.0	-	-	-
COKER 92-27	18	51.2	-	-	-
TEST MEAN	39	-	52	-	-
L.S.D. (.10)	6	-	7	-	-
C.V. (%)	11	-	10	-	-
OATS					
COKER 820	79	31.3	-	4,018	-
CITATION	70	30.2	48	4,696	-
HARPOOL 833	64	30.0	-	4,268	-
MADISON	56	20.4	-	4,108	-
COKER 227	55	29.7	-	5,365	3,912
COKER 716	46	29.4	97	4,744	4,131
FLORIDA 502	36	30.1	12	3,013	2,005
FLORIDA 501	30	27.8	-	2,636	-
TEST MEAN	55	-	52	4,106	3,349
L.S.D. (.10)	16	-	17	615	498
C.V. (%)	21	-	23	10	11

CONTINUED

TABLE 6. PERFORMANCE OF SMALL GRAINS AT MARION JUNCTION, ALABAMA, 1986 CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
WYSOR	77	40.5	-	-	-
ANSON	61	39.4	-	-	-
SUSSEX	61	39.8	-	-	-
VOLBAR	51	34.1	-	-	-
KEOWEE	51	38.0	-	-	-
BARSOY	50	40.5	-	-	-
BOONE	39	37.8	-	-	-
TEST MEAN	56	-	-	-	-
L.S.D. (.10)	11	-	-	-	-
C.V. (%)	14	-	-	-	-
TRITICALE					
MORRISON	54	46.5	-	-	-
COUNCIL	30	41.8	-	-	-
FLORIDA 201	28	46.9	-	-	-
BEAGLE 82	28	44.4	-	-	-
TRICAL B631A	26	43.1	-	-	-
TEST MEAN	33	-	-	-	-
L.S.D. (.10)	3	-	-	-	-
C.V. (%)	6	-	-	-	-

TABLE 7. PERFORMANCE OF SMALL GRAINS AT PRATTVILLE, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.	3-YR. AV.		1986	3-YR. AV.
	BU. LB./BU.	BU.		LB.	LB.
WHEAT					
FLORIDA 302	38 55.0	53		3,573	2,611
COKER 983	35 58.6	53		3,363	-
HW 3015	34 55.3	-		4,491	-
HUNTER	34 59.0	52		-	-
MCNAIR 1003	33 52.6	54		4,008	3,203
PIONEER 2551	32 53.4	-		4,191	-
ADDER	28 54.4	-		3,294	-
SALUDA	28 56.5	53		4,516	-
CALDWELL	27 54.4	47		4,343	3,479
COMPTON	27 56.9	-		4,305	-
MASSEY	27 55.3	52		4,055	3,138
HW 3022	26 56.9	-		3,894	-
PIONEER 2550	26 55.2	49		4,302	-
COKER 916	26 56.0	52		3,460	-
STACY	25 56.5	47		4,313	3,478
TYLER	24 53.3	44		3,295	2,691
MAGNUM	24 57.0	-		3,354	-
COKER 93-23	22 54.7	-		3,260	-
TERRAL 812	21 56.8	-		3,019	-
WHEELER	20 56.4	-		3,518	-
TERRAL 817	19 55.9	-		3,318	-
AUBURN	19 56.3	-		3,909	3,276
FILLMORE	18 55.5	-		3,712	3,125
COKER 92-27	18 57.7	-		3,446	-
PIKE	16 54.2	-		-	-
BRADFORD	16 54.5	-		4,013	-
FLORIDA 301	- -	-		2,940	-
TEST MEAN	26 -	51		3,756	3,125
L.S.D. (.10)	7 -	6		499	418
C.V. (%)	19 -	9		10	10
OATS					
MADISON	40 29.1	-		1,691	-
COKER 820	38 32.0	-		3,750	-
CITATION	35 30.5	28		3,790	-
FLORIDA 502	32 31.2	-		1,296	1,178
HARPOOL 833	30 28.5	-		4,564	-
COKER 227	29 25.9	-		3,946	3,528
COKER 716	22 26.6	43		3,452	3,840
FLORIDA 501	14 25.7	-		1,551	-
TEST MEAN	30 -	35		3,005	2,849
L.S.D. (.10)	9 -	8		646	529
C.V. (%)	21 -	15		15	13

CONTINUED

TABLE 7. PERFORMANCE OF SMALL GRAINS AT PRATTVILLE, ALABAMA, 1986 CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
WYSOR	33	38.3	-	3,552	-
BARSOY	23	38.7	-	2,729	2,540
BOONE	22	40.8	-	2,625	-
ANSON	21	36.3	-	2,323	-
KEOWEE	20	39.7	-	1,771	-
VOLBAR	20	35.8	-	2,861	-
SUSSEX	16	39.2	-	2,532	2,370
TEST MEAN	22	-	-	2,628	2,455
L.S.D. (.10)	6	-	-	380	306
C.V. (%)	19	-	-	10	9
RYE					
GURLEY'S GRAZER 2000	-	-	-	5,388	3,836
WINTERGRAZER 70	-	-	-	5,344	4,169
AFC 20-10X	-	-	-	5,318	-
BONEL	-	-	-	5,252	4,096
GI 85	-	-	-	5,225	3,966
MATON	-	-	-	5,176	4,028
N.K. VITAGRAZE	-	-	-	5,049	3,677
AFC 20-20	-	-	-	4,908	3,855
WREN'S ABRUZZI 86	-	-	-	4,885	-
FL EXP-201ES79-1	-	-	-	4,870	-
GI 87X	-	-	-	4,708	-
ELBON	-	-	-	4,509	3,525
N.K. SS-1	-	-	-	4,503	-
FORAGER	-	-	-	4,337	-
FL-SYN-T	-	-	-	4,325	-
FLORIDA 401	-	-	-	4,016	-
TEST MEAN	-	-	-	4,863	3,894
L.S.D. (.10)	-	-	-	486	436
C.V. (%)	-	-	-	7	8
TRITICALE					
MORRISON	27	48.1	-	3,928	-
BEAGLE 82	24	47.9	-	-	-
TRICAL 86314	24	47.9	-	-	-
FLORIDA 201	23	50.1	-	-	-
COUNCIL	16	42.9	-	4,077	2,950
TRICAL 876-10	-	-	-	4,162	-
TRICAL 111	-	-	-	3,510	-
TEST MEAN	23	-	-	3,919	2,950
L.S.D. (.10)	4	-	-	440	516
C.V. (%)	12	-	-	7	12

TABLE 8. PERFORMANCE OF SMALL GRAINS AT TALLASSEE, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.	3-YR. AV.		1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
HW 3015	44	52.2	-	1,528	-
SALUDA	43	53.4	61	1,401	-
MASSEY	40	53.6	-	1,507	3,183
COMPTON	37	54.6	-	1,657	-
PIONEER 2551	36	51.6	-	1,691	-
STACY	36	51.9	52	1,563	3,182
MAGNUM	32	51.4	-	1,154	-
ADDER	31	48.7	-	1,340	-
MCNAIR 1003	31	44.7	46	1,405	2,601
CALDWELL	30	51.8	40	1,743	2,534
PIONEER 2550	28	50.8	39	1,808	-
AUBURN	24	54.0	-	1,154	2,193
FILLMORE	14	49.1	-	1,649	2,764
HW 3022	3	-	-	390	-
COKER 916	3	-	38	467	-
FLORIDA 302	1	-	31	463	2,450
BRADFORD	1	-	-	401	-
COKER 93-23	0	-	-	387	-
WHEELER	0	-	-	349	-
COKER 92-27	0	-	-	283	-
COKER 983	0	-	32	277	-
TYLER	0	-	24	275	2,078
TERRAL 812	0	-	-	254	-
TERRAL 817	0	-	-	248	-
HUNTER	0	-	38	-	-
PIKE	0	-	-	-	-
FLORIDA 301	-	-	-	272	-
TEST MEAN	17	-	40	947	2,623
L.S.D. (.10)	5	-	10	266	782
C.V. (%)	21	-	18	21	22
OATS					
COKER 820	82	32.4	-	2,267	-
HARPOOL 833	69	32.1	-	2,190	-
CITATION	69	32.4	81	2,075	-
FLORIDA 502	59	33.3	49	1,597	2,007
MADISON	53	31.6	-	1,951	-
COKER 716	52	31.7	84	1,895	3,955
FLORIDA 501	45	32.3	-	1,753	-
COKER 227	41	29.3	-	2,513	3,769
TEST MEAN	59	-	72	2,030	3,244
L.S.D. (.10)	11	-	14	598	579
C.V. (%)	12	-	18	20	11

CONTINUED

TABLE 8. PERFORMANCE OF SMALL GRAINS AT TALLASSEE, ALABAMA, 1986 CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE 1986 BU.	TEST WT. LB./BU.	3-YR. AV. BU.	FORAGE ONLY YIELD/ACRE 1986 LB.	3-YR. AV. LB.
BARLEY					
BARSOY	32	36.6	-	897	2,771
WYSOR	24	34.8	-	1,434	-
SUSSEX	23	38.4	-	1,131	2,865
VOLBAR	22	38.4	-	885	-
BOONE	13	33.5	-	900	-
ANSON	13	37.6	-	793	-
KEOWEE	13	35.8	-	758	-
TEST MEAN	20	-	-	971	2,818
L.S.D. (.10)	6	-	-	428	599
C.V. (%)	20	-	-	30	15
RYE					
GI 85	-	-	-	2,727	3,797
AFC 20-20	-	-	-	2,574	3,821
MATON	-	-	-	2,557	3,857
WINTERGRAZER 70	-	-	-	2,520	3,886
GI 87X	-	-	-	2,428	-
AFC 20-10X	-	-	-	2,424	-
BONEL	-	-	-	2,395	3,957
WREN'S ABRUZZI 86	-	-	-	2,386	-
ELBON	-	-	-	2,247	3,626
FL EXP-201ES79-1	-	-	-	2,215	-
N.K. SS-1	-	-	-	2,191	-
FORAGER	-	-	-	2,150	-
GURLEY'S GRAZER 2000	-	-	-	2,034	3,449
N.K. VITAGRAZE	-	-	-	2,028	3,290
FLORIDA 401	-	-	-	1,960	-
FL-SYN-1	-	-	-	1,716	-
TEST MEAN	-	-	-	2,285	3,710
L.S.D. (.10)	-	-	-	543	673
C.V. (%)	-	-	-	17	13
TRITICALE					
MORRISON	21	45.5	-	1,312	-
BEAGLE 82	20	41.9	-	-	-
FLORIDA 201	18	44.2	-	-	-
TRICAL 8631A	13	43.3	-	-	-
COUNCIL	6	36.4	-	952	2,661
TRICAL 111	-	-	-	986	-
TRICAL 876-10	-	-	-	682	-
TEST MEAN	16	-	-	983	2,661
L.S.D. (.10)	4	-	-	234	267
C.V. (%)	15	-	-	15	7

TABLE 9. PERFORMANCE OF SMALL GRAINS AT CAMP HILL, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
TYLER	44	54.3	44	2,505	3,657
HW 3015	43	53.7	-	3,059	-
CALDWELL	42	53.8	39	2,798	3,276
PIONEER 2551	41	53.2	-	2,880	-
PIONEER 2550	40	55.0	44	2,747	-
SALUDA	39	54.4	46	1,967	-
COMPTON	39	56.8	-	2,720	-
MASSEY	36	52.6	34	2,509	3,565
COKER 916	36	52.0	35	2,574	-
FILLMORE	35	56.3	-	2,282	3,204
ADDER	35	51.0	-	2,231	-
MCNAIR 1003	34	52.4	39	2,236	3,513
BRADFORD	34	55.6	-	2,274	-
AUBURN	33	56.5	-	2,648	3,339
COKER 983	33	54.6	39	2,319	-
STACY	32	52.7	34	2,899	3,597
HW 3022	32	55.4	-	2,245	-
WHEELER	30	55.2	-	2,027	-
FLORIDA 302	30	54.5	39	2,287	3,580
MAGNUM	28	53.3	-	1,913	-
PIKE	28	55.5	-	-	-
COKER 93-23	28	51.4	-	2,175	-
HUNTER	23	55.5	33	-	-
TERRAL 817	19	52.8	-	2,214	-
TERRAL 812	19	52.0	-	1,401	-
COKER 92-27	13	51.4	-	1,970	-
FLORIDA 301	-	-	-	1,500	-
TEST MEAN	33	-	39	2,335	3,466
L.S.D. (.10)	6	-	7	367	603
C.V. (%)	13	-	13	11	13
OATS					
HARPOOL 833	38	24.7	-	3,080	-
CITATION	30	24.9	33	2,776	-
COKER 820	25	25.1	-	2,461	-
COKER 716	23	23.8	36	2,588	3,189
COKER 227	21	21.3	-	2,892	3,135
MADISON	18	25.2	-	1,724	-
FLORIDA 502	14	22.0	7	1,071	1,468
FLORIDA 501	11	25.5	-	710	-
TEST MEAN	22	-	25	2,163	2,597
L.S.D. (.10)	7	-	9	351	3,736
C.V. (%)	20	-	24	11	104

CONTINUED

TABLE 9. PERFORMANCE OF SMALL GRAINS AT CAMP HILL, ALABAMA, 1986
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
BARLEY					
WYSOR	52	37.1	-	3,315	-
VOLBAR	45	32.9	-	2,323	-
BARSOY	40	32.1	-	2,028	2,864
ANSON	38	34.3	-	2,413	-
KEOWFE	37	35.4	-	2,437	-
BOONE	32	37.0	-	2,162	-
SUSSEX	21	35.5	-	2,279	3,372
TEST MEAN	38	-	-	2,422	3,118
L.S.D. (.10)	7	-	-	-	-
C.V. (%)	13	-	-	-	-
RYE					
WINTERGRAZER 70	-	-	-	3,815	3,556
AFC 20-10X	-	-	-	3,711	-
ELBON	-	-	-	3,656	3,098
GI 85	-	-	-	3,579	3,649
AFC 20-20	-	-	-	3,569	3,446
MATON	-	-	-	3,552	3,258
BONEL	-	-	-	3,506	3,481
WREN'S ABRUZZI 86	-	-	-	3,310	-
GI 87X	-	-	-	3,287	-
N.K. SS-1	-	-	-	3,264	-
FORAGER	-	-	-	3,200	-
FL EXP-201ES79-1	-	-	-	3,193	-
FLORIDA 401	-	-	-	3,050	-
GURLEY'S GRAZER 2000	-	-	-	3,038	3,114
N.K. VITAGRAZE	-	-	-	2,839	2,992
FL-SYN-T	-	-	-	2,812	-
TEST MEAN	-	-	-	3,336	3,324
L.S.D. (.10)	-	-	-	561	513
C.V. (%)	-	-	-	12	11
TRITICALE					
MORRISON	36	46.0	-	3,002	-
COUNCIL	34	42.6	-	2,582	3,343
BEAGLE 82	27	45.8	-	-	-
TRICAL B631A	12	44.5	-	-	-
FLORIDA 201	10	43.0	-	-	-
TRICAL 876-10	-	-	-	3,569	-
TRICAL 111	-	-	-	2,316	-
TEST MEAN	24	-	-	2,867	3,343
L.S.D. (.10)	20	-	-	355	338
C.V. (%)	56	-	-	8	7

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			1986 AVERAGE			
	1986	2-YR.	3-YR.	1986	2-YR.	3-YR.	1986	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													
HW 3015	38	47	-	40	-	-	3,071	-	-	5	36	3-24	54.9
ADDER	34	-	-	34	-	-	2,617	-	-	0	30	3-28	53.8
SALUDA	34	38	-	39	35	-	3,143	3,702	-	18	30	4- 1	53.5
FLORIDA 302	32	42	47	30	29	40	2,461	2,844	2,921	4	34	3-28	55.1
COMPTON	31	39	-	41	40	-	3,412	3,613	-	17	32	4- 4	56.3
MCNAIR 1003	31	38	42	35	31	43	2,738	3,124	-	1	32	3-25	49.6
PIONEER 2551	30	-	-	42	-	-	3,058	-	-	16	31	4- 3	52.3
STACY	30	-	-	33	-	-	3,171	3,638	-	16	36	3-28	53.3
MAGNUM	30	-	-	30	-	-	2,364	-	-	3	32	3-30	54.2
HW 3022	29	33	-	28	-	-	2,735	-	-	3	33	3-31	56.5
COKER 916	28	38	45	21	22	32	2,451	-	-	4	29	3-27	54.8
AUBURN	27	-	-	30	-	-	2,850	3,109	-	1	31	4-12	52.2
TERRAL 817	27	37	-	20	-	-	1,921	-	-	6	32	3-26	55.4
MASSEY	27	35	42	38	37	42	2,796	3,165	3,247	1	34	3-24	53.3
CALDWELL	25	28	-	32	-	-	3,185	-	-	9	32	4- 5	53.1
FILLMORE	24	-	-	21	-	-	2,884	3,260	-	5	34	4-13	49.5
TERRAL 817	24	-	-	18	-	-	2,273	-	-	8	32	3-25	52.8
BRADFORD	23	40	-	29	27	-	2,533	3,215	-	11	36	3-29	53.6
COKER 93-23	23	-	-	23	-	-	2,056	-	-	7	30	3-22	53.0
PIONEER 2550	22	-	-	-	-	-	-	-	-	25	31	4-11	50.0
COKER 92-27	20	-	-	17	-	-	1,988	-	-	3	30	3-22	56.3
COKER 983	19	38	46	25	23	37	2,045	-	-	2	28	3-25	55.3
HUNTER	16	34	41	-	-	-	-	-	-	3	28	3-21	55.4
FLORIDA 301	-	-	-	-	-	-	2,289	-	-	-	-	-	-
TEST MEAN	27	37	44	30	30	39	2,638	3,296	3,084	7	32	-	-
L.S.D. (.10)	8	8	8	5	5	7	434	472	537	-	-	-	-
C.V. (%)	22	16	14	12	12	13	12	11	13	-	-	-	-
OATS													
CITATION	67	77	69	-	-	-	3,785	3,234	3,354	18	41	4- 4	31.4
HARPOOL 833	66	-	-	-	-	-	4,062	-	-	23	38	4- 8	30.9
COKER 820	62	-	-	-	-	-	3,903	-	-	25	37	3-24	31.7
FLORIDA 502	61	51	39	-	-	-	3,255	2,661	2,225	1	35	3-22	34.2
COKER 227	59	61	60	-	-	-	4,137	3,887	4,168	25	39	4- 2	30.5
MADISON	56	59	-	-	-	-	3,602	3,054	-	25	31	4- 8	29.4
FLORIDA 501	54	-	-	-	-	-	3,222	-	-	36	37	3-30	29.6
COKER 716	50	-	-	-	-	-	3,745	-	-	25	36	4-12	31.0
TEST MEAN	59	62	56	-	-	-	3,714	3,209	3,249	22	37	-	-
L.S.D. (.10)	14	15	15	-	-	-	478	489	651	-	-	-	-
C.V. (%)	17	19	20	-	-	-	9	11	15	-	-	-	-

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			1986 AVERAGE			
	1986	2-YR.	3-YR.	1986	2-YR.	3-YR.	1986	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	-	-	-	-	-	-	3,928	4,559	4,481	-	-	-	-
WINTERGRAZER 70	-	-	-	-	-	-	3,839	4,389	4,337	-	-	-	-
MATON	-	-	-	-	-	-	3,790	4,381	4,361	-	-	-	-
AFC 20-10X	-	-	-	-	-	-	3,755	-	-	-	-	-	-
GI 85	-	-	-	-	-	-	3,538	4,148	4,060	-	-	-	-
FLBON	-	-	-	-	-	-	3,536	4,324	4,248	-	-	-	-
GI 87X	-	-	-	-	-	-	3,478	-	-	-	-	-	-
AFC 20-20	-	-	-	-	-	-	3,478	4,012	3,955	-	-	-	-
FL EXP-201FS79-1	-	-	-	-	-	-	3,434	-	-	-	-	-	-
FORAGER	-	-	-	-	-	-	3,386	3,890	-	-	-	-	-
GURLEY'S GRAZER 2000	-	-	-	-	-	-	3,384	3,924	3,870	-	-	-	-
WREN'S ABRUZZI 86	-	-	-	-	-	-	3,300	-	-	-	-	-	-
N.K. VITAGRAZE	-	-	-	-	-	-	3,087	-	-	-	-	-	-
FL-SYN-T	-	-	-	-	-	-	3,020	3,530	-	-	-	-	-
N.K. SS-1	-	-	-	-	-	-	2,987	-	-	-	-	-	-
FLORIDA 401	-	-	-	-	-	-	2,749	-	-	-	-	-	-
TEST MEAN	-	-	-	-	-	-	3,418	4,129	4,187	-	-	-	-
L.S.D. (.10)	-	-	-	-	-	-	571	652	658	-	-	-	-
C.V. (%)	-	-	-	-	-	-	12	12	12	-	-	-	-
TRITICALE													
MORRISON	31	38	-	44	39	-	3,252	3,708	-	2	46	3-23	42.5
BEAGLE 82	25	-	-	-	-	-	-	-	-	4	34	3- 9	42.4
COUNCIL	22	-	-	25	-	-	2,727	3,218	3,295	3	42	4- 2	38.4
TRICAL 8631A	21	20	-	-	-	-	-	-	-	4	35	3-10	43.1
FLORIDA 201	18	-	-	-	-	-	-	-	-	11	33	3-12	43.6
TRICAL 876-10	-	-	-	-	-	-	3,292	4,106	-	-	-	-	-
TRICAL 111	-	-	-	-	-	-	2,932	-	-	-	-	-	-
TEST MEAN	23	29	-	34	39	-	3,051	3,677	3,295	4	38	-	-
L.S.D. (.10)	9	9	-	10	10	-	582	730	730	-	-	-	-
C.V. (%)	28	22	-	12	10	-	14	15	16	-	-	-	-

TABLE 11. PERFORMANCE OF SMALL GRAINS AT CAMDEN, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			GRAIN AFTER GRAZING YIELD/ACRE		FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	BU.	BU.	LB.	LB.
WHEAT							
HW 3015	28	52.8	-	40	-	2,470	-
COMPTON	27	53.8	-	41	-	2,532	-
STACY	22	48.6	-	33	-	2,561	-
PIONEER 2551	22	46.0	-	42	-	2,387	-
ADDER	20	51.8	-	34	-	2,253	-
AUBURN	20	50.4	-	30	-	2,220	-
SALUDA	18	47.4	-	39	-	2,269	-
PIONEER 2550	17	47.4	-	-	-	-	-
MASSEY	17	49.2	32	38	42	2,262	2,626
CALDWELL	17	49.3	-	32	-	2,171	-
MCNAIR 1003	13	42.2	30	35	43	2,303	-
FILLMORE	13	45.2	-	21	-	2,366	-
BRADFORD	10	48.0	-	29	-	1,817	-
FLORIDA 302	9	-	25	30	40	1,640	2,209
TERRAL 817	8	44.2	-	18	-	1,445	-
MAGNUM	7	47.2	-	30	-	1,448	-
HW 3022	6	-	-	28	-	1,485	-
COKER 916	6	-	19	21	32	1,522	-
COKER 92-27	4	-	-	17	-	1,179	-
COKER 93-23	4	-	-	23	-	1,180	-
TERRAL 812	3	-	-	20	-	1,284	-
COKER 983	3	-	23	25	37	823	-
HUNTER	3	-	20	-	-	-	-
FLORIDA 301	-	-	-	-	-	1,662	-
TEST MEAN	13	-	25	30	39	1,876	2,417
L.S.D. (.10)	4	-	6	5	7	326	385
C.V. (%)	25	-	18	12	13	13	12
OATS							
HARPOOL 833	79	31.2	-	-	-	3,283	-
COKER 716	73	29.8	-	-	-	2,932	-
CITATION	68	28.6	78	-	-	2,987	3,438
FLORIDA 501	64	29.4	-	-	-	2,920	-
COKER 227	59	28.6	74	-	-	3,373	3,957
COKER 820	58	30.2	-	-	-	3,110	-
MADISON	53	27.6	-	-	-	2,861	-
FLORIDA 502	45	31.8	26	-	-	3,001	1,771
TEST MEAN	62	-	59	-	-	3,058	3,055
L.S.D. (.10)	7	-	14	-	-	284	695
C.V. (%)	8	-	17	-	-	6	16

CONTINUED

TABLE 11. PERFORMANCE OF SMALL GRAINS AT CAMDEN, ALABAMA, 1986

CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			GRAIN AFTER GRAZING YIELD/ACRE		FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.	3-YR. AV.		1986	3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	BU.	BU.	LB.	LB.
RYE							
BONEL	-	-	-	-	-	3,312	3,626
WINTERGRAZER 70	-	-	-	-	-	3,276	3,693
MATON	-	-	-	-	-	3,102	3,511
AFC 20-10X	-	-	-	-	-	3,036	-
ELRON	-	-	-	-	-	3,000	3,585
GI 85	-	-	-	-	-	2,996	3,236
GURLEY'S GRAZER 2000	-	-	-	-	-	2,983	3,309
FORAGER	-	-	-	-	-	2,977	-
GI 87X	-	-	-	-	-	2,944	-
FL EXP-201ES79-1	-	-	-	-	-	2,819	-
N.K. SS-1	-	-	-	-	-	2,769	-
AFC 20-20	-	-	-	-	-	2,722	3,291
WREY'S ABRUZZI 86	-	-	-	-	-	2,670	-
N.K. VITAGRAZE	-	-	-	-	-	2,655	-
FLORIDA 401	-	-	-	-	-	2,555	-
FL-SYN-T	-	-	-	-	-	2,444	-
TEST MEAN	-	-	-	-	-	2,891	3,465
L.S.D. (.10)	-	-	-	-	-	278	373
C.V. (%)	-	-	-	-	-	7	8
TRITICALE							
MORRISON	20	-	-	44	-	2,878	-
BEAGLE 82	18	39.4	-	-	-	-	-
FLORIDA 201	16	41.4	-	-	-	-	-
TRICAL B631A	14	41.5	-	-	-	-	-
COUNCIL	10	35.2	-	25	-	2,390	2,951
TRICAL 111	-	-	-	-	-	2,264	-
TRICAL 876-10	-	-	-	-	-	2,235	-
TEST MEAN	16	-	-	34	-	2,442	2,951
L.S.D. (.10)	13	-	-	10	-	568	376
C.V. (%)	56	-	-	12	-	15	9

TABLE 12. PERFORMANCE OF SMALL GRAINS AT MONROEVILLE, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
SALUDA	63	57.4	-	3,807	-
MCNAIR 1003	57	54.6	55	2,632	-
TERRAL 812	57	57.8	-	2,177	-
HW 3015	54	57.7	-	2,983	-
ADDER	52	57.0	-	2,728	-
COKER 93-23	52	57.1	-	2,320	-
HW 3022	52	58.9	-	3,325	-
STACY	52	57.6	-	3,098	-
FLORIDA 302	49	55.8	61	2,618	3,784
MAGNUM	49	57.3	-	2,391	-
COKER 916	47	56.8	60	2,826	-
COKER 983	47	59.2	64	2,530	-
COMPTON	46	59.0	-	3,869	-
PIONEER 2551	44	55.6	-	3,343	-
PIONEER 2550	41	51.7	-	-	-
COKER 92-27	39	60.3	-	2,192	-
CALDWELL	39	55.1	-	4,223	-
MASSEY	38	55.9	49	2,984	4,178
FILLMORE	37	50.0	-	3,337	-
TERRAL 817	36	56.8	-	2,645	-
AUBURN	36	52.7	-	2,937	-
BRADFORD	35	57.1	-	2,946	-
HUNTER	31	59.2	49	-	-
FLORIDA 301	-	-	-	2,698	-
TEST MEAN	46	-	57	2,937	3,981
L.S.D. (.10)	12	-	11	541	814
C.V. (%)	19	-	14	13	15
OATS					
FLORIDA 502	129	35.9	62	3,609	2,067
COKER 227	126	32.7	68	5,011	5,923
CITATION	125	33.6	76	3,768	3,826
COKER 820	124	33.9	-	4,240	-
FLORIDA 501	116	31.8	-	3,495	-
HARPOOL 833	111	32.8	-	4,221	-
MADISON	111	10.7	-	4,975	-
COKER 716	93	12.2	-	4,639	-
TEST MEAN	117	-	69	4,245	3,939
L.S.D. (.10)	18	-	14	666	961
C.V. (%)	11	-	15	11	18

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TABLE 12. PERFORMANCE OF SMALL GRAINS AT MONROEVILLE, ALABAMA, 1986
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.	3-YR. AV.		1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
RYE					
GI 85	-	-	-	4,435	4,997
MATON	-	-	-	4,433	5,054
BONEL	-	-	-	4,327	5,351
ELBON	-	-	-	4,182	5,060
WINTERGRAZER 70	-	-	-	4,109	5,015
AFC 20-10X	-	-	-	4,096	-
AFC 20-20	-	-	-	3,960	4,738
WREN'S ABRUZZI 86	-	-	-	3,948	-
GI 87X	-	-	-	3,775	-
GURLEY'S GRAZER 2000	-	-	-	3,489	4,386
FORAGER	-	-	-	3,344	-
FL EXP-201ES79-1	-	-	-	3,243	-
N.K. VITAGRAZE	-	-	-	3,167	-
FL-SYN-T	-	-	-	3,012	-
N.K. SS-1	-	-	-	2,912	-
FLORIDA 401	-	-	-	2,788	-
TEST MEAN	-	-	-	3,701	4,943
L.S.D. (.10)	-	-	-	562	697
C.V. (%)	-	-	-	11	10
TRITICALE					
BEAGLE 82	48	44.7	-	-	-
MORRISON	42	39.6	-	3,847	-
COUNCIL	42	41.9	-	3,574	4,458
FLORIDA 201	38	48.1	-	-	-
TRICAL B631A	37	47.0	-	-	-
TRICAL 876-10	-	-	-	4,212	-
TRICAL 111	-	-	-	3,083	-
TEST MEAN	41	-	-	3,679	4,458
L.S.D. (.10)	14	-	-	342	910
C.V. (%)	22	-	-	6	14

TABLE 13. PERFORMANCE OF SMALL GRAINS AT BREWTON, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
SALUDA	34	56.4	-	3,192	-
FLORIDA 302	32	55.1	49	2,676	2,896
HW 3015	29	55.9	-	2,939	-
PIONEER 2551	26	55.3	-	2,783	-
STACY	25	55.7	-	2,651	-
CALDWELL	25	56.1	-	2,597	-
BRADFORD	24	56.2	-	2,305	-
HW 3022	24	55.9	-	2,775	-
MASSEY	24	55.5	40	2,321	2,688
COMPTON	23	58.3	-	3,300	-
COKER 93-23	22	52.9	-	2,242	-
MAGNUM	22	56.5	-	2,321	-
MCNAIR 1003	22	50.7	40	2,528	-
COKER 916	22	56.0	41	2,762	-
ADDER	20	53.6	-	2,138	-
AUBURN	20	54.2	-	2,589	-
FILLMORE	19	47.9	-	2,375	-
COKER 983	18	55.2	41	2,122	-
PIONEER 2550	18	49.7	-	-	-
HUNTER	18	57.1	40	-	-
COKER 92-27	18	56.1	-	2,140	-
TERRAL 817	17	53.8	-	2,079	-
TERRAL 812	16	54.4	-	1,979	-
FLORIDA 301	-	-	-	1,959	-
TEST MEAN	23	-	42	2,490	2,792
L.S.D. (.10)	6	-	8	443	395
C.V. (%)	20	-	14	13	10
OATS					
MADISON	61	32.3	-	3,911	-
HARPOOL 833	59	33.1	-	4,105	-
CITATION	53	34.1	49	4,057	3,523
COKER 227	39	31.3	33	3,655	3,723
COKER 820	36	32.6	-	4,242	-
COKER 716	26	30.8	-	3,942	-
FLORIDA 502	19	29.7	20	2,954	2,555
FLORIDA 501	17	28.7	-	3,488	-
TEST MEAN	39	-	34	3,794	3,267
L.S.D. (.10)	12	-	9	364	355
C.V. (%)	21	-	20	7	8

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TABLE 13. PERFORMANCE OF SMALL GRAINS AT BREWTON, ALABAMA, 1986
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
RYE					
WINTERGRAZER 70	-	-	-	4,805	4,278
BONEL	-	-	-	4,348	4,417
MATON	-	-	-	3,986	4,116
AFC 20-10X	-	-	-	3,928	-
GI 85	-	-	-	3,901	4,139
AFC 20-20	-	-	-	3,801	3,990
GI 87X	-	-	-	3,758	-
GURLEY'S GRAZER 2000	-	-	-	3,631	3,791
WREN'S ABRUZZI 86	-	-	-	3,515	-
FORAGER	-	-	-	3,469	-
N.K. SS-1	-	-	-	3,465	-
ELBON	-	-	-	3,437	3,836
FL EXP-201ES79-1	-	-	-	3,428	-
FL-SYN-T	-	-	-	3,352	-
N.K. VITAGRAZE	-	-	-	3,134	-
FLORIDA 401	-	-	-	2,780	-
TEST MEAN	-	-	-	3,671	4,081
L.S.D. (.10)	-	-	-	721	634
C.V. (%)	-	-	-	14	11
TRITICALE					
MORRISON	34	45.0	-	2,673	-
COUNCIL	16	38.5	-	2,080	2,778
TRICAL B631A	15	44.5	-	-	-
BEAGLE 82	13	43.1	-	-	-
FLORIDA 201	8	42.3	-	-	-
TRICAL 876-10	-	-	-	2,934	-
TRICAL 111	-	-	-	2,739	-
TEST MEAN	17	-	-	2,606	2,778
L.S.D. (.10)	8	-	-	920	950
C.V. (%)	30	-	-	22	24

TABLE 14. PERFORMANCE OF SMALL GRAINS AT HEADLAND, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
HW 3015	54	53.7	-	2,869	-
MASSEY	49	54.2	-	2,768	3,188
MCNAIR 1003	48	50.3	-	2,423	-
PIONEER 2551	45	53.9	-	2,629	-
COMPTON	44	55.9	-	2,753	-
STACY	40	52.8	-	3,472	-
SALUDA	39	54.3	-	2,552	-
ADDER	39	51.3	-	2,316	-
MAGNUM	37	53.6	-	2,095	-
FLORIDA 302	37	53.2	-	1,796	2,461
COKER 916	36	51.9	-	1,312	-
TERRAL 812	34	53.5	-	1,071	-
AUBURN	34	54.5	-	2,467	-
TERRAL 817	32	53.3	-	1,389	-
PIONEER 2550	32	51.4	-	-	-
COKER 93-23	31	50.6	-	1,065	-
FILLMORE	28	52.3	-	2,229	-
CALDWELL	27	53.6	-	2,112	-
HW 3022	27	54.3	-	1,343	-
BRADFORD	26	52.4	-	1,765	-
HUNTER	24	51.4	-	-	-
COKER 92-27	24	54.2	-	1,086	-
COKER 983	21	53.5	-	869	-
FLORIDA 301	-	-	-	1,676	-
TEST MEAN	35	-	-	2,003	2,825
L.S.D. (.10)	8	-	-	370	525
C.V. (%)	17	-	-	13	14
OATS					
FLORIDA 502	86	36.9	-	2,155	1,505
CITATION	80	32.5	-	2,750	2,310
COKER 820	67	33.6	-	2,499	-
HARPOOL 833	65	32.0	-	3,522	-
FLORIDA 501	58	33.2	-	1,932	-
COKER 716	56	31.1	-	2,631	-
MADISON	52	27.2	-	1,616	-
COKER 227	51	32.3	-	3,118	2,827
TEST MEAN	64	-	-	2,528	2,214
L.S.D. (.10)	18	-	-	653	604
C.V. (%)	20	-	-	18	20

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TABLE 14. PERFORMANCE OF SMALL GRAINS AT HEADLAND, ALABAMA, 1986
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.	3-YR. AV.		1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
RYE					
FL EXP-201ES79-1	-	-	-	3,712	-
AFC 20-10X	-	-	-	3,603	-
BONEL	-	-	-	3,478	5,044
FORAGER	-	-	-	3,414	-
AFC 20-20	-	-	-	3,336	4,151
MATON	-	-	-	3,024	5,122
WREN'S ABRUZZI 86	-	-	-	2,916	-
N.K. VITAGRAZE	-	-	-	2,878	-
WINTERGRAZER 70	-	-	-	2,866	4,707
ELBON	-	-	-	2,853	4,591
GI 87X	-	-	-	2,758	-
FL-SYN-I	-	-	-	2,741	-
GURLEY'S GRAZER 2000	-	-	-	2,737	4,159
GI 85	-	-	-	2,532	4,091
N.K. SS-1	-	-	-	2,353	-
FLORIDA 401	-	-	-	2,231	-
TEST MEAN	-	-	-	2,964	4,552
L.S.D. (.10)	-	-	-	832	985
C.V. (%)	-	-	-	20	16
TRITICALE					
BEAGLE 82	41	47.3	-	-	-
MORRISON	36	47.3	-	2,936	-
TRICAL B631A	33	47.1	-	-	-
FLORIDA 201	27	50.4	-	-	-
COUNCIL	27	42.2	-	1,653	2,950
TRICAL 876-10	-	-	-	2,900	-
TRICAL 111	-	-	-	2,507	-
TEST MEAN	33	-	-	2,499	2,950
L.S.D. (.10)	8	-	-	797	888
C.V. (%)	16	-	-	20	21

TABLE 15. PERFORMANCE OF SMALL GRAINS AT FAIRHOPE, ALABAMA, 1986

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
WHEAT					
ADDER	37	55.4	-	3,652	-
HW 3022	35	57.0	-	4,748	-
MAGNUM	34	56.4	-	3,566	-
FLORIDA 302	32	56.4	51	3,575	3,256
COKER 916	27	54.4	61	3,834	-
AUBURN	26	49.4	-	4,036	-
TERRAL 817	24	55.8	-	3,808	-
FILLMORE	24	52.0	-	4,114	-
TERRAL 812	24	55.8	-	3,095	-
HW 3015	24	54.2	-	4,095	-
BRADFORD	21	54.2	-	3,833	-
CALDWELL	17	51.6	-	4,824	-
PIONEER 2551	16	50.8	-	4,150	-
COMPTON	15	54.6	-	4,603	-
MCNAIR 1003	14	50.2	32	3,802	-
SALUDA	14	51.8	-	3,894	-
STACY	13	51.6	-	4,071	-
COKER 92-27	13	54.8	-	3,342	-
COKER 983	8	53.4	54	3,880	-
MASSEY	7	51.6	33	3,647	3,557
HUNTER	7	53.8	50	-	-
COKER 93-23	4	51.6	-	3,471	-
PIONEER 2550	3	49.6	-	-	-
FLORIDA 301	-	-	-	3,447	-
TEST MEAN	19	-	47	3,886	3,406
L.S.D. (.10)	7	-	9	496	470
C.V. (%)	25	-	13	9	10
OATS					
COKER 820	27	28.4	-	5,423	-
FLORIDA 502	25	36.6	47	4,554	3,225
COKER 227	19	27.8	70	5,530	4,409
HARPOOL 833	17	25.2	-	5,178	-
FLORIDA 501	13	25.0	-	4,277	-
CITATION	12	28.0	80	5,364	3,674
MADISON	3	-	-	4,645	-
COKER 716	0	-	-	4,579	-
TEST MEAN	14	-	66	4,944	3,769
L.S.D. (.10)	15	-	21	439	571
C.V. (%)	72	-	23	6	11

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TABLE 15. PERFORMANCE OF SMALL GRAINS AT FAIRHOPE, ALABAMA, 1986
CONTINUED

BRAND-VARIETY	GRAIN ONLY YIELD/ACRE			FORAGE ONLY YIELD/ACRE	
	1986 TEST WT.		3-YR. AV.	1986	3-YR. AV.
	BU.	LB./BU.	BU.	LB.	LB.
RYE					
MATON	-	-	-	4,406	4,000
ELBON	-	-	-	4,209	4,166
BONEL	-	-	-	4,173	3,968
GI 87X	-	-	-	4,157	-
WINTERGRAZER 70	-	-	-	4,137	3,993
AFC 20-10X	-	-	-	4,114	-
GURLEY'S GRAZER 2000	-	-	-	4,080	3,704
FL EXP-201ES79-1	-	-	-	3,967	-
GI 85	-	-	-	3,829	3,836
FORAGER	-	-	-	3,727	-
N.K. VITAGRAZE	-	-	-	3,602	-
AFC 20-20	-	-	-	3,572	3,607
FL-SYN-T	-	-	-	3,553	-
WREN'S ABRUZZI 86	-	-	-	3,448	-
N.K. SS-1	-	-	-	3,439	-
FLORIDA 401	-	-	-	3,391	-
TEST MEAN	-	-	-	3,863	3,896
L.S.D. (.10)	-	-	-	334	465
C.V. (%)	-	-	-	6	9
TRITICALE					
MORRISON	20	38.2	-	3,924	-
COUNCIL	17	34.4	-	3,938	3,340
BEAGLE 82	5	37.4	-	-	-
TRICAL B631A	4	35.4	-	-	-
FLORIDA 201	4	36.0	-	-	-
TRICAL 876-10	-	-	-	4,178	-
TRICAL 111	-	-	-	4,066	-
TEST MEAN	10	-	-	4,027	3,340
L.S.D. (.10)	3	-	-	543	521
C.V. (%)	19	-	-	9	11

Table 16. Septoria Blotch Ratings for Wheat Varieties in Alabama, 1985-86[1/]

Brand-variety	Northern Alabama	Central Alabama	Southern Alabama
Adder	4.0	3.0	3.6
Auburn	2.0	2.7	2.0
Bradford	5.0	3.3	3.2
Caldwell	4.0	2.3	2.4
Coker 92-27	7.0	5.3	5.0
Coker 93-23	5.0	4.0	3.5
Coker 916	8.0	4.7	2.4
Coker 983	4.0	4.7	4.0
Compton	0	3.3	2.0
Fillmore	1.0	2.7	2.2
Florida 302	3.0	4.0	3.6
Hunter	5.0	4.0	3.7
HW 3015	4.0	3.0	3.4
HW 3022	5.0	3.7	3.2
Magnum	6.0	3.0	3.2
Massey	5.0	5.5	2.5
McNair 1003	5.0	5.0	3.6
Pike	0	4.0	-
Pioneer 2550	3.0	1.7	2.0
Pioneer 2551	6.0	3.7	2.6
Saluda	5.0	3.7	3.4
Stacy	4.0	4.3	2.6
Terral 812	0	5.0	3.4
Terral 817	6.0	4.7	3.4
Tyler	5.0	4.3	-
Wheeler	6.0	4.0	-

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

Table 17. Leaf Rust Ratings for Wheat Varieties in Alabama, 1985-86 [1/]

Brand-variety	Central Alabama	Southern Alabama
Adder	4.0	.8
Auburn	1.0	.2
Bradford	3.3	2.2
Caldwell	3.8	1.2
Coker 92-27	3.3	2.6
Coker 93-23	5.0	4.8
Coker 916	4.0	3.0
Coker 983	2.8	5.0
Compton	3.3	.8
Fillmore	2.0	.4
Florida 302	3.3	4.4
Hunter	7.3	6.8
HW 3015	4.8	4.4
HW 3022	4.8	4.0
Magnum	3.5	1.4
Massey	7.5	6.2
McNair 1003	5.5	4.2
Pike	5.3	-
Pioneer 2550	3.8	4.8
Pioneer 2551	4.0	3.0
Saluda	4.0	4.0
Stacy	4.0	4.0
Terral 812	3.5	2.4
Terral 817	4.3	1.8
Tyler	3.0	-
Wheeler	4.8	-

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

Table 18. Powdery Mildew Ratings for Wheat Varieties in Alabama, 1985-86[1/]

Brand-variety	Monroeville	Marion Junction
Adder	2.0	4.0
Auburn	0	3.0
Bradford	0	2.0
Caldwell	0	3.0
Coker 92-27	0	4.0
Coker 93-23	4.0	4.0
Coker 916	0	3.0
Coker 983	0	2.0
Compton	2.0	4.0
Fillmore	0	1.0
Florida 302	0	2.0
Hunter	0	5.0
HW 3015	3.0	2.0
HW 3022	3.0	4.0
Magnum	4.0	4.0
Massey	0	-
McNair 1003	0	2.0
Pike	-	4.0
Pioneer 2550	5.0	3.0
Pioneer 2551	3.0	5.0
Saluda	1.0	3.0
Stacy	2.0	4.0
Terral 812	0	6.0
Terral 817	4.0	0
Tyler	-	4.0
Wheeler	-	4.0

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

Table 19. Disease Ratings for Barley Varieties in Alabama, 1985-86[1/]

Brand-variety	Stripe	Spot blotch	Leaf rust	Net blotch
Northern Alabama				
Anson	0	5.0	0	5.0
Barsoy	-	-	-	-
Boone	0	6.0	0	5.0
Keowee	0	5.0	0	3.0
Sussex	0	6.0	0	2.0
Volbar	0	3.0	0	2.0
Wysor	0	5.0	0	2.0
Central Alabama				
Anson	1.7	4.0	0	5.0
Barsoy	4.0	6.3	5.0	2.8
Boone	2.0	4.3	3.0	5.0
Keowee	2.3	5.5	0	5.5
Sussex	3.0	6.7	0	5.0
Volbar	2.0	4.5	0	4.0
Wysor	2.0	4.5	2.0	4.5

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

Table 20. Disease Ratings for Triticale Varieties in Alabama, 1985-86[1/]

Brand-variety	Leaf rust	Septoria
Northern Alabama		
Beagle 82	0	4.0
Council	0	4.0
Florida 201	0	4.0
Morrison	0	2.0
Trical B631A	0	2.0
Central Alabama		
Beagle 82	4.5	4.3
Council	1.5	2.0
Florida 201	4.5	4.3
Morrison	1.3	2.5
Trical B631A	4.8	4.3
Southern Alabama		
Beagle 82	1.0	2.7
Council	1.3	2.6
Florida 201	0	2.3
Morrison	0	2.2
Trical B631A	1.0	2.0

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

Table 21. Disease Ratings for Oat Varieties in Alabama, 1985-86

Brand-variety	Helminthosporium leaf spot[1/]	Leaf rust[1/]	Mosaic & red leaf[2/]	Septoria[1]
Northern Alabama				
Citation	4.0	0	0	3.0
Coker 227	5.0	0	0	3.0
Coker 716	6.0	0	0	3.0
Coker 820	5.0	0	0	3.0
Florida 501	3.0	0	0	3.0
Florida 502	5.0	0	0	3.0
Central Alabama				
Citation	4.8	0	16.5	.8
Coker 227	4.5	0	21.0	.5
Coker 716	3.8	0	15.0	.8
Coker 820	4.3	0	3.0	.8
Florida 501	4.3	0	50.0	.8
Florida 502	3.5	0	40.0	.3
Harpool 833	4.0	0	37.5	.8
Madison	4.3	0	17.5	1.0
Southern Alabama				
Citation	3.2	0	10.0	2.2
Coker 227	2.0	3.0	12.5	1.4
Coker 716	1.8	9.0	15.0	1.5
Coker 820	2.6	7.0	5.0	1.3
Florida 501	2.2	6.0	12.5	1.6
Florida 502	2.6	0	8.0	1.8
Harpool 833	2.0	6.0	3.0	1.6
Madison	.8	9.0	1.0	1.5

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

[2/] Percent plants affected.

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.

In the past, Hessian fly was not usually a serious pest in Alabama; however, over the past several years infestations have increased greatly. During the 1985-86 growing season, severe infestations occurred in central Alabama involving more than 35,000 acres. The small grain variety trials conducted at Monroeville, Brewton, Marion Junction, Tallassee, Headland, and Camden all had severe Hessian fly infestations.

After the grain in these tests had matured, samples were collected from each replicate (5 to 10 stems) and examined for larvae and pupae of the Hessian fly. The number of insects in each stem was noted and the average number of fly per stem is presented in table 22. Using these data each variety was ranked (lowest average fly per stem = 1) at each location and the average rank over all locations determined. The average rank of each variety gives some indication of Hessian fly resistance. Caution should be exercised in using these data. Varieties that have a low Hessian fly rank may not be resistant to this species but may merely have escaped infestation by some other means, such as maturity date or location in the field. Where Hessian fly has been a problem or might be expected, choose a wheat or triticale variety with a low rank and avoid those varieties that have a high rank.

Table 22. Hessian Fly Count Per Stem of Wheat and Triticale Varieties, Alabama, 1985-1986

Brand-variety	Count, by location						All locations av. rank 1/
	Monroe-ville	Brewton	Marion Junction	Tallassee	Headland	Camden	
Wheat							
Fillmore	1.33	0.47	0	2.29	7.47	7.47	25
HW 3022	1.27	.37	1.38	8.33	5.85	9.37	28
Auburn	.67	.10	0	1.24	2.93	1.67	14
Florida 302	.67	.67	1.58	10.44	2.30	18.13	32
Terral 817	.60	.60	1.92	10.53	1.53	8.73	30
Saluda	.50	.43	.03	.63	1.75	1.70	15
Coker 916	.40	.40	0.57	8.96	1.03	3.63	21
Pioneer 2550	.40	.30	0	.34	8.90	3.00	12
Caldwell	.37	.36	0	.74	5.43	.97	11
Bradford	.33	.43	1.50	9.75	2.20	.20	22
Hunter	.27	.50	-	-	.30	4.07	17
Adder	.17	.10	0	5.89	.10	.27	8
Coker 92-27	.10	.06	.71	8.27	1.35	6.13	19
Coker 93-23	.10	.50	1.41	9.88	.15	3.97	20
Coker 983	.10	.63	.13	12.74	1.03	5.50	24
Terral 812	.03	.37	.55	7.94	1.00	5.47	18
Stacy	.30	.03	0	0	.03	.07	4
Compton	0	.03	.23	.99	.30	.17	6
McNair 1003	0	.03	.13	1.56	.47	.33	7
Pioneer 2551	0	0	.35	.52	.10	.17	5
HW 3015	0	0	0	1.96	0	.17	3
Magnum	0	0	.34	.50	.33	5.46	9
Massey	0	0	0	.66	0	0	1
Wheeler	-	-	1.81	3.71	-	-	29
Florida 301	-	-	1.05	13.72	-	.97	27
Tyler	-	-	.30	14.84	-	-	31
Triticale							
Trical 876-10	-	-	.20	2.37	-	-	16
Council	-	-	0	2.83	-	4.03	13
Morrison	-	-	0	.43	-	.07	2
Trical III	-	-	.30	7.03	-	-	22
Beagle 82	-	-	-	-	-	4.10	26
Trical B631A	-	-	-	-	-	.93	10

1/ 1 = lowest average Hessian fly infestation.

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	Barsoy
Florida 302		Keowee
Massey		Syssex
McNair 1003*		Volbar*
Pioneer Brand 2550		
Saluda		
Tyler		
HW 3015**		

CENTRAL ALABAMA

WHEAT	OATS
Caldwell	Citation
Coker 916	Coker 716
Hunter*	
Massey	
McNair 1003	
Pioneer Brand 2550	
Saluda	
Stacy	
HW 3015**	
Compton**	

SOUTHERN ALABAMA

WHEAT	OATS
Coker 916	Citation
Coker 983	Coker 227
Florida 302	
HW 3015**	

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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
AFC 20-20*	Caldwell	Coker 227	Barsoy
Bonel	Massey	Coker 716	Keowee
Elbon	McNair 1003		Sussex
Gurley's Grazer 2000*	Compton **		
Wintergrazer 70	Pioneer Brand 2550**		

CENTRAL ALABAMA

RYE	WHEAT	OATS	BARLEY
AFC 20-20	Auburn	Coker 227	Barsoy
Bonel	Caldwell	Coker 716	Sussex
GI 85	Fillmore		
Gurley's Grazer 2000*	McNair 1003		
Maton	Massey		
Wintergrazer 70	Stacy		
	Compton**		
	Pioneer Brand 2550**		
	Saluda**		

SOUTHERN ALABAMA

RYE	WHEAT	OATS
AFC 20-20	Florida 302	Citation
Bonel	Massey	Coker 227
Elbon	Compton**	
Maton	Saluda**	
Wintergrazer 70	Stacy**	

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*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

Adder, Auburn, Caldwell, Compton, Fillmore	Ag. Alumni Seed Imp. Assoc., Inc. Romney, Indiana
Coker (all varieties) McNair 1003, HW 3015, HW 3022	Rohm and Hass Seeds Hartsville, South Carolina
AgriPro brand Hunter, Magnum	AgriPro Research Brookston, Indiana
Florida 301, Florida 302	Florida Foundation Seed Prod., Inc. Greenwood, Florida
Stacy	Georgia Seed Development Comm. Athens, Georgia
Pike	Missouri Foundation Seeds Columbia, Missouri
Pioneer Brand 2550 and 2551	Pioneer Hi-Bred International, Inc. Tipton, Indiana
Bradford	Foundation Seed Service College Station, Texas
Terral 812, Terral 817	Terral-Norris Seed Co. Lake Providence, Louisiana
Tyler, Wheeler, Massey, Saluda	Department of Agronomy Virginia Polytechnic Inst. Blacksburg, Virginia

OATS

Coker (all varieties)	Rohm and Hass Seeds 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
Harpool 833	Arkansas County Seed Stuttguart, Arkansas

OATS (cont.)	
Citation	Terral-Norris Seed Co. Lake Providence, Louisiana
RYE	
Wrens Abruzzi 86	Georgia Seed Development Co. Athens, Georgia
Bonel, Maton, Elbon	Noble Foundation, Ardmore, Oklahoma
Gurley's Grazer 2000, GI-85 GI-87X, AFC 20-20 AFC 20-10.	Gurley's, Inc. Selma, North Carolina
N.K. SS-1, Vitagraze	Northrup King, Inc. Laurinburg, North Carolina
Wintergrazer 70	Pennington Seed, Inc. Madison, Georgia
Forager	Dothan Seed Co. Dothan, Alabama
Florida 401, FL-Syn-T FL Exp-201ES79-1	Univ. of Florida Agric. Research Center, Quincy, Florida
BARLEY	
Barsoy	Department of Agronomy, University of Kentucky, Lexington, Kentucky
Keowee	South Carolina Crop Imp. Assoc. Clemson, South Carolina
Sussex, Wysor	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
Beagle 82, Florida 201	Univ. of Florida Agric. Research Center, Quincy, Florida