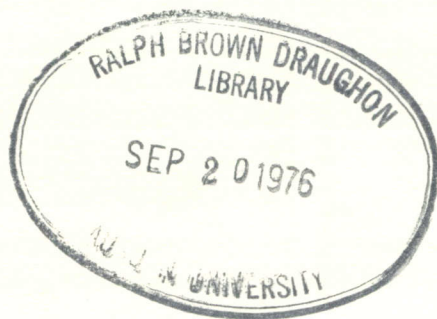
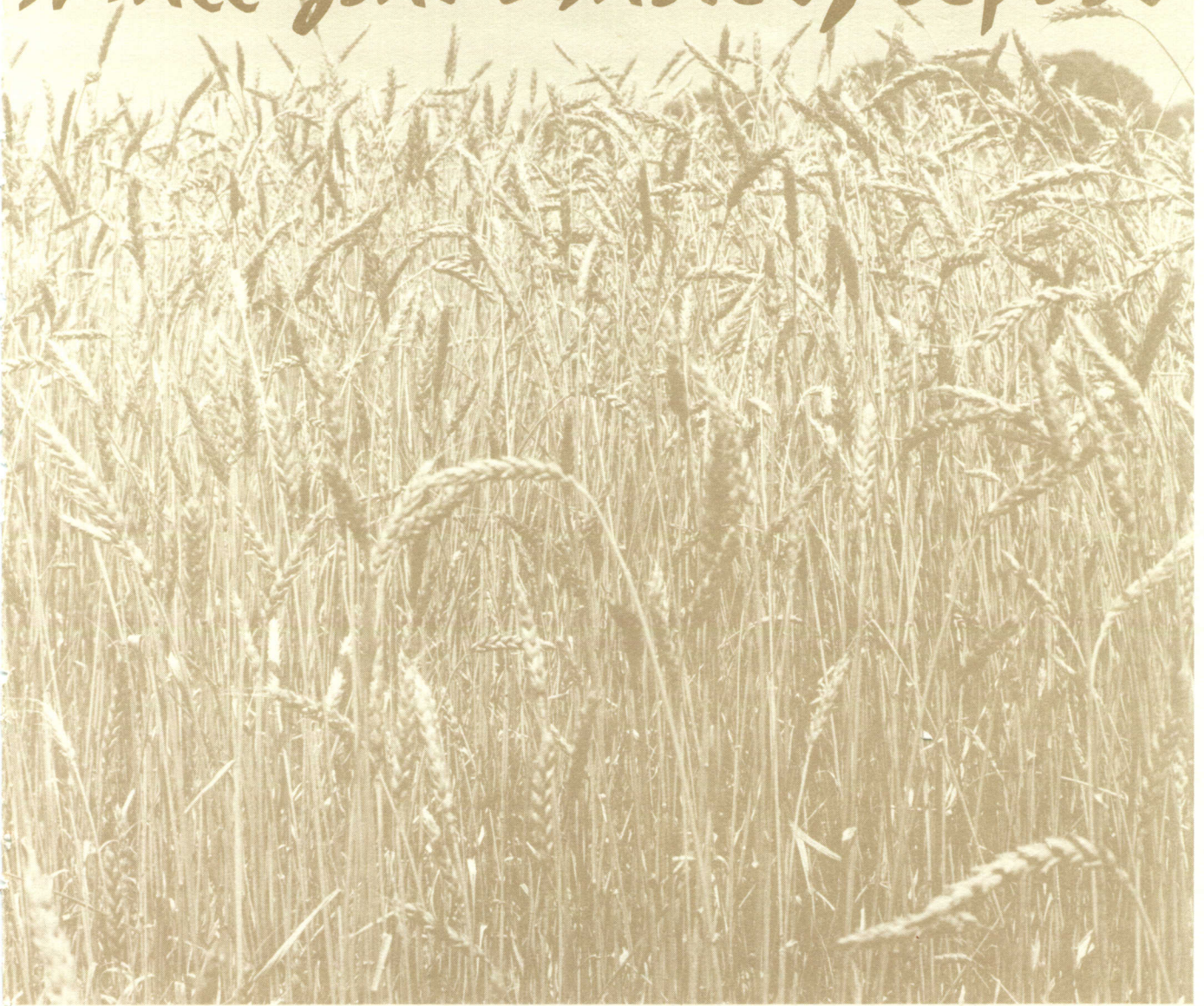


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small grain variety report



1976

AGRONOMY & SOILS DEPARTMENTAL SERIES 30
AGRICULTURAL EXPERIMENT STATION
R. DENNIS ROUSE, DIRECTOR

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AUBURN UNIVERSITY
AUBURN, ALABAMA

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SMALL GRAIN VARIETY REPORT, 1976
Emmett L. Carden^{1/}

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

Small grain variety tests were conducted at 12 locations during the 1975-76 growing season. Cool winter temperatures and a relatively cool, dry spring resulted in low incidence of disease and good grain yields; however, at most locations forage yields were reduced by the cool temperatures and frequent frosts.

In Alabama, small grains are grown for forage and grain, for grain only, and for forage only. To evaluate performance of small grains under these three management practices, three series of plots were used. One series was managed for grain production only. The second series was clipped during the fall and early winter to evaluate forage production and the effect of its removal on subsequent grain production. The third series, at Prattville and Tallassee, was clipped throughout the growing season until no regrowth occurred to determine total forage production for the season.

The experimental design for these tests was a split plot with species as main-plots and varieties as sub-plots. Plots were three rows wide with 1-foot spacing between rows, and were 18 or 20 feet long. Each management series was replicated three times. Recommended cultural practices were followed and were the same for all entries within a management series at a location. Plots managed for forage production were planted in September or October. Plots managed for grain production only were planted in October or November. Tests were planted as near the optimum date for a location as conditions permitted.

Since growing conditions, and thus performance, may vary between locations, regional averages are used to give a better indication of performance of varieties over the whole region. Where data are available, averages over several years are included.

Table 1 shows forage produced by late February and grain and total feed production for clipped and unclipped plots. Grain yields, lodging, height, and heading dates for unclipped plots are given in Table 2. Similar data for clipped plots are given in Table 3.

Yields of varieties tested for production of forage only, at Tallassee and Prattville are given in Tables 4 and 5. These data are

^{1/}Research Associate, Department of Agronomy and Soils

presented by harvest date to show seasonal distribution of forage production. The DeKalb wheat x Agroticum hybrids in these tests are poor grain producers and, if planted, should be utilized for forage production only.

Varietal reactions to diseases are presented in Tables 6, 7, and 8. Several diseases occur in small grains, but only those that are most common in Alabama are included here. Except where noted, these reactions are averages obtained over a period of 2 to 5 years from various locations in the State. A rating of resistant (R) means the variety has thus far appeared unaffected or only slightly affected by the particular disease. A rating of susceptible (S) means the variety is susceptible to the extent that appreciable damage has occurred when conditions were favorable for disease occurrence and development. Disease data were compiled by Dr. J. A. Lyle and Dr. Robert T. Gudauskas, Department of Botany and Microbiology.

Varieties are recommended by region for (1) grain production only and (2) forage and grain combined. Variety recommendations in this report are for general regions of the State, and are based on performance at several locations in each region. Recommendations are made on the basis of the last 3 years data; however, performance over a longer period is considered when data are available. Varieties that perform well over a 2-year period are recommended on a trial basis.

Locations of the 1975-76 tests and staff members in charge are as follows:

NORTHERN ALABAMA

Sand Mountain Substation, Crossville - J. T. Eason, Superintendent
Tennessee Valley Substation, Belle Mina - J. K. Boseck, Superintendent
Upper Coastal Plain Substation, Winfield - R. A. Moore, Superintendent

CENTRAL ALABAMA

Black Belt Substation, Marion Junction - L. A. Smith, Superintendent
Experiment Field, Prattville - F. T. Glaze, Superintendent
Piedmont Substation, Camp Hill - W. A. Griffey, Superintendent
Plant Breeding Unit, Tallassee - J. W. Langford, Superintendent

SOUTHERN ALABAMA

Experiment Field, Brewton - W. E. Brown, Superintendent
Experiment Field, Monroeville - W. E. Brown, Superintendent
Gulf Coast Substation, Fairhope - J. E. Barrett, Superintendent
Lower Coastal Plain Substation, Camden - J. A. Little, Superintendent
Wiregrass Substation, Headland - J. G. Starling, Superintendent

Table 1. FORAGE AND GRAIN YIELD OF SMALL GRAIN VARIETIES TESTED, 1972-76

Variety	Yield of clipped plots, average					Total feed, 1974-76 av.		
	Oven dry forage					Grain 3-yr. 1974-76	Clipped forage and grain	
	1976	1975-76	1974-76	1973-76	1972-76			
Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	
NORTHERN ALABAMA								
Number of tests	(3)	(6)	(9)	(12)	(15)	(9)	(9)	(9)
OATS								
Coker 66-22	536	417	790	1026	1120	1418	1644	2208
Coker 227	659	490	802			1281	1908	2083
Elan	368	412						
Coker 70-16	299							
Salem	421							
BARLEY								
Keowee	722	532	830	916	920	1651	1797	2481
Barsoy	888	689	1056	1138	1106	1731	2412	2787
Volbar	707	464	713			2041	2374	2754
Va. 72-11-18	951							
Va. 72-44-362	800							
Boone	334							
McNair 3004	1019							
RYE								
Bonel	2232	1624	1709	1745	1826	1411	1548	3120
McNair Vita Graze	2509	1803	1844	1878	2006	897	1353	2741
Wintergrazer 70	2407	1637	1725	1774	1815	1420	1424	3145
ACCO 811	2108	1479	1693			1146	1319	2839
Maton ^{1/}	2015	1485	1711			1313	1443	3024
Wren's Abruzzi	2352	1746						
Gurley's Grazer 2000	2031	1517						
Athens Abruzzi	2431	1657						
WHEAT								
Wakeland	1754	1183	1433	1530	1524	920	1364	2353
Coker 68-15	1369	1020	1257	1413	1455	950	1618	2207
Ga. 1123	1095	823	1094	1264	1332	1226	1368	2320
Arthur	945	644	881	997	1049	1076	1226	1957
Holley	888	738	984	1141		1044	976	2028
Abe	672	487	723	737		1216	1258	1939
Arthur 71	672	549	807	920		1079	1175	1886
Blue Boy II	1237	900	1301	1542		974	1386	2275
Oasis	809	601						
Coker 747 ^{2/}	827	634						
Coker 74-20	467							
McNair 3006	1163							
McNair 3001	1107							
Coker 75-6	987							
Doublecrop	916							

^{1/}Previously tested as NF 331

^{2/}Previously tested as Coker 74-27 (3)

Table 1. FORAGE AND GRAIN YIELD OF SMALL GRAIN VARIETIES TESTED, 1972-76
(cont'd)

Variety	Yield of clipped plots, average					Total feed, 1974-76 av.		
	Oven dry forage					Grain clipped	Not Clipped	
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.			3-yr. grain only
	1976	1975-76	1974-76	1973-76	1972-76	1974-76		
Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	
CENTRAL ALABAMA								
Number of tests	(3)	(7)	(11)	(15)	(18)	(11)	(11)	(11)
OATS								
Fla. 501	312	1000	1336	1456	1609	830	1267	2166
Coker 227	404	1009	1290	1452		1430	1997	2720
Elan	231	856	1198			856	1788	2054
Coker 70-16	269							
Salem	329							
Coker 75-11	523							
Coker 75-10	610							
BARLEY								
Barsoy	607	1077	1415	1508	1505	1038	1613	2453
Va. 72-11-18	808							
Va. 72-44-362	376							
Boone	217							
RYE								
McNair Vita Graze	1393	1624	1792	2003	2043	629	1219	2421
Weser	1160	1557	1746	1890	1946	905	1312	2651
ACCO 811	1211	1501	1728	1886	1909	887	1184	2615
Wren's Abruzzi	1213	1551	1757	1859	1879	1093	1364	2850
Gurley's Grazer. 2000	1217	1502	1890			868	1154	2758
Wintergrazer 70	982	1394						
Maton ^{1/}	1140	1478						
Athens Abruzzi	1231	1528						
NF 324	1184							
WHEAT								
Wakeland	913	1384	1693	1791	1849	841	1360	2534
Coker 68-15	786	1256	1523	1681	1805	1116	1838	2639
Arthur	535	827	1075	1219	1358	1354	1806	2429
Abe	274	613	848	1014		1596	1794	2444
Arthur 71	314	733	933	1105		1185	1895	2118
Blue Boy II	1020	1346	1657	1858		874	1533	2531
Holley	856	1308	1500			845	1221	2345
Oasis	447	806						
Coker 747 ^{2/}	630	921						
McNair 1813	867							
Coker 74-20	352							
McNair 3006	692							
McNair 3001	901							
Coker 75-6	698							
Doublecrop	399							
Coker 75-20	347							

^{1/}Previously tested as NF 331

^{2/}Previously tested as Coker 74-27

Table 1. FORAGE AND GRAIN YIELD OF SMALL GRAIN VARIETIES TESTED, 1972-76
(cont'd)

Variety	Yield of clipped plots, average					Total feed, 1974-76 av.		
	Oven dry forage					Grain	Clipped forage	
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.			3-yr. grain only
	1976	1975-76	1974-76	1973-76	1972-76	1974-76	Lb.	
Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	
SOUTHERN ALABAMA								
Number of tests	(5)	(10)	(15)	(20)	(25)	(15)	(15)	(15)
OATS								
Fla. 501	866	1152	1396	1508	1520	1100	1075	2496
Elan	641	941	1220	1280	1298	1172	1318	2392
Coker 227	704	878	1246	1265		1368	1456	2614
F1 70 Q 1153	637	1352						
Salem	905							
Coker 75-11	947							
Coker 75-10	1059							
Coker 75-14	965							
RYE								
McNair Vita Graze	2268	2205	2275	2244	2107	376	838	2651
Weser	2258	2120	2236	2204	2073	838	1047	3074
ACCO 811	1940	1909	2043	2058	1962	466	562	2509
Wren's Abruzzi	2264	2193	2267	2182	2028	898	1032	3165
Gurley's Grazer 2000	2216	2113	2192	2182		658	864	2850
Wintergrazer 70	1819	1783						
Maton ^{1/}	1879	1844						
Athens Abruzzi	2243	2048						
NF 324	2223							
WHEAT								
Wakeland	1612	1653	1805	1807	1694	1095	1249	2900
Coker 68-15	1072	1275	1428	1542	1526	1066	1273	2494
Abe	415	574	850	883		1347	1322	2197
Blue Boy II	1358	1428	1627	1693		1003	1212	2630
McNair 1813	1293	1473	1591	1620		633	996	2224
Holley	947	1191	1391			951	990	2342
Arthur 71	438	642	897			1081	1218	1978
Oasis	493	741						
Coker 747 ^{2/}	559	670						
Coker 74-20	528							
McNair 3001	1191							
Coker 75-6	759							
Doublecrop	505							
Coker 75-20	670							
Coker 75-29	1359							

^{1/}Previously tested as NF 331

^{2/}Previously tested as Coker 74-27

Table 2. GRAIN YIELD AND OTHER CHARACTERISTICS OF UNCLIPPED SMALL GRAIN VARIETIES TESTED, 1972-76

Variety	Regional average yield per acre					Other Characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-Year average		
	1976	1975-76	1974-76	1973-76	1972-76	Lodging	Height	1/10 Headed
	Bu.	Bu.	Bu.	Bu.	Bu.	Pct.	In.	Date
NORTHERN ALABAMA								
Number of tests	(3)	(6)	(9)	(12)	(15)	(9)	(9)	(9)
OATS								
Coker 66-22	54	53	51	45	45	34	43	4/21
Coker 227	62	59	60			29	39	4/20
Elan	43	42						
Coker 70-16	63							
Salem	36							
BARLEY								
Keowee	55	40	37	35	33	43	35	4/14
Barsoy	74	56	50	40	36	29	30	4/2
Volbar	69	51	49			31	38	4/13
Va. 72-11-18	62							
Va. 72-44-362	66							
Boone	48							
McNair 3004	36							
RYE								
Bonel	43	31	28	23	25	38	60	4/2
McNair Vita Graze	41	27	24	19	21	40	56	3/26
Wintergrazer 70	36	28	25	22	26	35	58	3/30
ACCO 811	34	26	24			33	58	3/29
Maton ^{1/}	37	29	26			35	59	3/29
Wren's Abruzzi	39	30						
Gurley's Grazer 2000	37	26						
Athens Abruzzi	40	32						
WHEAT								
Wakeland	26	23	23	21	22	14	41	4/12
Coker 68-15	38	30	27	23	25	3	34	4/10
Ga. 1123	28	26	23	22	23	8	42	4/11
Arthur	19	24	20	20	22	5	36	4/14
Holley	13	16	16	15		12	38	4/8
Abe	19	23	21	20		7	34	4/14
Arthur 71	19	23	20	19		8	35	4/15
Blue Boy II	29	25	23	22		4	37	4/13
Oasis	17	22						
Coker 747 ^{2/}	42	37						
Coker 74-20	42							
McNair 3006	35							
McNair 3001	35							
Coker 75-6	36							
Doublecrop	15							

^{1/}Previously tested as NF 331

^{2/}Previously tested as Coker 74-27

Table 2. GRAIN YIELD AND OTHER CHARACTERISTICS OF UNCLIPPED SMALL GRAIN
(Cont'd.) VARIETIES TESTED, 1972-76

Variety	Regional average yield per acre					Other Characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-Year average		
	1976	1975-76	1974-76	1973-76	1972-76	Lodging	Height	Headed
	Bu.	Bu.	Bu.	Bu.	Bu.	Pct.	In.	Date
CENTRAL ALABAMA								
Number of tests	(3)	(7)	(11)	(15)	(18)	(11)	(11)	(11)
OATS								
Fla. 501	37	32	40	35	35	17	40	4/2
Coker 227	54	53	62	56		23	40	4/6
Elan	52	56	56			27	38	4/7
Coker 70-16	54							
Salem	48							
Coker 75-11	56							
Coker 75-10	50							
BARLEY								
Barsoy	38	37	34	28	26	16	29	3/22
Va. 72-11-18	40							
Va. 72-44-362	33							
Boone	29							
RYE								
McNair Vita Graze	31	24	22	17	20	10	53	3/12
Weser	34	25	23	19	23	13	53	3/12
ACCO 811	27	21	21	17	20	16	54	3/13
Wren's Abruzzi	32	24	24	19	22	12	53	3/12
Gurley's Grazer 2000	26	21	21			14	55	3/12
Wintergrazer 70	26	22						
Maton ^{1/}	23	20						
Athens Abruzzi	30	24						
NF 324	29							
WHEAT								
Wakeland	29	25	23	19	20	21	40	3/25
Coker 68-15	30	32	31	25	27	2	37	3/31
Arthur	26	29	30	25	26	8	38	4/1
Abe	27	28	30	27		12	35	4/1
Arthur 71	29	31	32	27		2	37	4/1
Blue Boy II	26	27	26	22		2	37	3/29
Holley	27	21	20			5	40	3/24
Oasis	26	30						
Coker 7472/ ^{2/}	27	31						
McNair 1813	16							
Coker 74-20	23							
McNair 3006	27							
McNair 3001	37							
Coker 75-6	28							
Doublecrop	24							
Coker 75-20	21							

^{1/}Previously tested as NF 331.

^{2/}Previously tested as Coker 74-27.

Table 2. GRAIN YIELD AND OTHER CHARACTERISTICS OF UNCLIPPED SMALL GRAIN
(Cont'd.) VARIETIES TESTED, 1972-76

Variety	Regional average yield per acre					Other Characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-Year average		
	1976	1975-76	1974-76	1973-76	1972-76	Lodging	Height	1/10 Headed
	Bu.	Bu.	Bu.	Bu.	Bu.	Pct.	In.	Date
SOUTHERN ALABAMA								
Number of tests	(5)	(10)	(15)	(20)	(25)	(15)	(15)	(15)
OATS								
Fla. 501	63	43	34	32	30	34	40	3/30
Elan	62	49	41	44	39	25	39	4/3
Coker 227	81	55	46	45		15	43	4/5
FL 70Q 1153	34	25						
Salem	54							
Coker 75-11	60							
Coker 75-10	70							
Coker 75-14	67							
RYE								
McNair Vita Graze	26	18	15	12	13	31	51	3/12
Weser	31	20	19	16	17	28	52	3/15
ACCO 811	18	11	10	9	11	34	51	3/16
Wren's Abruzzi	33	20	18	15	17	28	53	3/15
Gurley's Grazer 2000	29	18	15	13		29	52	3/14
Wintergrazer 70	28	18						
Maton ^{1/}	23	15						
Athens Abruzzi	26	17						
NF 324	24							
WHEAT								
Wakeland	39	28	21	19	18	15	38	3/29
Coker 68-15	39	28	21	19	18	6	35	4/8
Abe	35	27	22	20		5	33	4/8
Blue Boy II	39	26	20	18		6	36	3/28
McNair 1813	33	23	17	16		4	32	3/17
Holley	32	22	17			10	37	3/19
Arthur 71	32	25	20			5	34	4/7
Oasis	32	25						
Coker 747 ^{2/}	44	32						
Coker 74-20	36							
McNair 3001	45							
Coker 75-6	44							
Doublecrop	34							
Coker 75-20	30							
Coker 75-29	41							

^{1/}Previously tested as NF 331.

^{2/}Previously tested as Coker 74-27.

Table 3. GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN VARIETIES TESTED, 1972-76

Variety	Regional average yield per acre					Other Characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-yr. average		
	1976	1975-76	1974-76	1973-76	1972-76	Lodging	Height	1/10 Headed
	Bu.	Bu.	Bu.	Bu.	Bu.	Pct.	In.	Date
NORTHERN ALABAMA								
Number of tests	(3)	(6)	(9)	(12)	(15)	(9)	(9)	(9)
OATS								
Coker 66-22	50	48	44	42	45	18	39	4/19
Coker 227	47	49	40			12	34	4/17
Elan	0	16						
Coker 70-16	46							
Salem	34							
BARLEY								
Keowee	46	41	34	32	30	30	30	4/11
Barsoy	52	42	36	29	27	32	26	3/31
Volbar	53	47	43			27	34	4/10
Va. 72-11-18	46							
Va. 72-44-362	49							
Boone	27							
McNair 3004	47							
RYE								
Bonel	28	27	25	22	25	42	57	4/1
McNair Vita Graze	18	15	16	13	16	42	54	4/2
Wintergrazer 70	28	27	25	23	26	36	56	4/1
ACCO 811	26	22	20			42	55	3/31
Maton ^{1/}	28	24	23			36	56	4/1
Wren's Abruzzi	27	25						
Gurley's Grazer 2000	21	19						
Athens Abruzzi	25	23						
WHEAT								
Wakeland	20	18	15	15	18	18	34	4/14
Coker 68-15	23	18	16	15	18	9	29	4/10
Ga. 1123	23	23	20	20	22	10	37	4/12
Arthur	11	18	18	18	20	8	32	4/10
Kolley	20	20	17	18		13	34	4/10
Abe	20	23	20	18		12	30	4/10
Arthur 71	13	19	18	17		10	31	4/11
Blue Boy II	25	20	16	15		7	32	4/16
Oasis	20	22						
Coker 747 ^{2/}	27	28						
Coker 74-20	25							
McNair 3006	25							
McNair 3001	26							
Coker 75-6	39							
Doublecrop	15							

^{1/}Previously tested as NF-331

^{2/}Previously tested as Coker 74-27

Table 3. GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN
(Cont'd) VARIETIES TESTED, 1972-76

Variety	Regional average yield per acre					Other characteristics			
	1-yr. 1976	2-yr. 1975-76	3-yr. 1974-76	4-yr. 1973-76	5-yr. 1972-76	3-yr. average			
	Bu.	Bu.	Bu.	Bu.	Bu.	Pct.	In.	Date	
	CENTRAL ALABAMA								
Number of tests	(3)	(7)	(11)	(15)	(18)	(11)	(11)	(11)	
OATS									
Fla. 501	36	27	26	29	27	5	32	4/6	
Coker 227	50	45	45	46		3	35	4/6	
Elan	29	31	27			1	30	4/9	
Coker 70-16	45								
Selam	35								
Coker 75-11	40								
Coker 75-10	40								
BARLEY									
Barsoy	33	24	22	20	18	6	24	3/25	
Va. 72-11-18	33								
Va. 72-44-362	40								
Boone	21								
RYE									
McNair Vita Graze	15	10	11	10	12	13	49	3/21	
Weser	22	16	16	15	17	10	49	3/21	
ACCO 811	22	16	16	14	17	15	50	3/21	
Wren's Abruzzi	24	17	20	17	19	10	50	3/20	
Gurley's Grazer 2000	19	15	16			12	51	3/20	
Wintergrazer 70	27	20							
Maton ^{1/}	27	20							
Athens Abruzzi	22	16							
NF 324	28								
WHEAT									
Wakeland	27	17	14	15	15	6	36	4/2	
Coker 68-15	28	20	19	16	17	1	31	3/31	
Arthur	29	24	23	23	25	6	33	3/31	
Abe	35	30	27	27		4	30	3/30	
Arthur 71	24	20	20	21		3	32	3/31	
Blue Boy II	27	17	15	13		1	33	4/4	
Holley	23	17	14			7	34	3/29	
Oasis	31	24							
Coker 747 ^{2/}	37	29							
McNair 1813	23								
Coker 74-20	27								
McNair 3006	35								
McNair 3001	29								
Coker 75-6	31								
Doublecrop	17								
Coker 75-20	18								

^{1/}Previously tested as NF 331

^{2/}Previously tested as Coker 74-27

Table 3. GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN
(Cont'd.) VARIETIES TESTED, 1972-76

Variety	Regional average yield per acre					Other Characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-year average		
	1976	1975-76	1974-76	1973-76	1972-76	Lodging	Height	Headed
	Bu.	Bu.	Bu.	Bu.	Bu.	Pct.	In.	Date
SOUTHERN ALABAMA								
Number of tests	(5)	(10)	(15)	(20)	(25)	(15)	(15)	(15)
OATS								
Fla. 501	50	43	34	40	35	15	37	4/1
Elan	66	49	37	41	35	16	36	4/6
Coker 227	63	52	43	48		9	39	4/3
FL 70 Q 1153	37	28						
Salem	38							
Coker 75-11	56							
Coker 75-10	50							
Coker 75-14	61							
RYE								
McNair Vita Graze	13	8	7	6	9	40	47	3/16
Weser	25	16	15	13	16	31	48	3/17
ACCO 811	14	9	8	8	11	39	47	3/17
Wren's Abruzzi	26	16	16	13	16	28	49	3/17
Gurley's Grazer 2000	20	13	12	10		32	49	3/18
Wintergrazer 70	31	20						
Maton ^{1/}	24	16						
Athens Abruzzi	21	14						
NF 324	23							
WHEAT								
Wakeland	34	22	18	18	16	12	36	3/25
Coker 68-15	29	23	18	16	15	5	33	3/28
Abe	33	28	22	22		7	32	3/27
Blue Boy II	29	21	17	16		8	34	3/28
McNair 1813	23	15	11	10		7	28	3/19
Holley	29	20	16			13	36	3/22
Arthur 71	27	23	18			5	33	3/27
Oasis	30	25						
Coker 747 ^{2/}	37	31						
Coker 74-20	33							
McNair 3001	29							
Coker 75-6	37							
Doublecrop	34							
Coker 75-20	29							
Coker 75-29	22							

^{1/}Previously tested as NF 331

^{2/}Previously tested as Coker 74-27

Table 4. Forage Yield of Small Grain Varieties Tested for Forage Only -
Prattville, 1973-76

Oven dry forage yield - pounds per acre									
Clipping date - 1976									
Variety	1-23	2-19	3-2	3-22	4-16	Total	2-yr. Av.	3-yr. Av.	4-yr. Av.
OATS									
Coker 227	245	779	776	1686	1238	4724	4812	5283	5522
Fla. 501	265	427	435	1121	742	2990	3975	4343	
FL. 70Q 1153	0	0	0	0	0	0	1127		
BARLEY									
Keowee	130	519	713	1278	603	3243	3680	4199	4260
Volbar	124	426	765	1573	1105	3993			
Boone	52	367	510	993	557	2479			
RYE									
Vita Graze	1171	708	488	974	349	3690	4171	4473	4540
Wintergrazer 70	1133	444	852	1610	627	4666	4855	4867	4921
Weser	1250	637	604	1108	534	4133	4413	4675	4772
Wren's Abruzzi	1289	574	631	1227	415	4136	4593	4678	4777
Gurley's Grazer 2000	1214	646	621	1129	484	4094	4374	4513	4497
Gurley's GI 75	1257	594	574	1154	530	4109	4400	4611	
Maton ^{1/}	1115	407	746	1460	471	4199	4737		
Athens Abruzzi	1326	624	633	1337	501	4421	4767		
NF 324	1338	529	720	1273	452	4312	4719		
NF 270	1046	465	701	1430	453	4095	4592		
ACCO 811	1007	472	703	1340	311	3833			
Gurley's GI 76	1012	571	654	1150	439	3826			
Wintergrazer A	1346	576	697	1398	596	4613			
WHEAT									
Coker 68-15	743	758	670	1187	290	3648	3796	4253	4323
DeKalb 9190 ^{2/}	553	640	616	1287	836	3932	4112	4888	4823
DeKalb 9090+9190 ^{2/}	638	567	636	1435	969	4245	4386	4991	
Blue Boy II	868	796	598	1004	338	3604	3809		
DeKalb 9490 ^{2/}	565	537	668	1520	959	4249	4318		
DeKalb 9060 ^{2/}	248	344	426	1157	857	3032	3663		
Wakeland	679	829	637	794	476	3415			

^{1/}Previously tested as NF 331.

^{2/}Wheat x Agrotricum hybrid.

Table 5. FORAGE YIELD OF SMALL GRAIN VARIETIES TESTED FOR FORAGE ONLY - TALLASSEE, 1973-76

Variety	Oven dry forage yield - pounds per acre								
	Clipping date - 1976					Total	2-yr. av.	3-yr. av.	4-yr. av.
	2-4	2-24	3-8	3-22	4-6				
OATS									
Coker 227		319	333	801	1476	2929	3933	3829	4327
Fla. 501		472	235	423	936	2066	2582	3126	
Fl. 700 1153		271	114	198	782	1365	1773		
BARLEY									
Keowee		497	448	692	790	2427	2934	2848	3082
Volbar		237	306	697	1099	2339			
Boone		385	330	591	517	1823			
RYE									
McNair Vita Graze	636	1252	373	353	447	3061	3578	3685	4009
Wintergrazer 70	378	1225	428	564	844	3439	4161	4009	4448
Weser	521	1140	295	299	477	2732	3411	3599	3930
Wren's Aburzzi	695	1220	365	324	555	3159	3589	3678	3977
Gurley's Grazer 2000	577	1170	411	336	605	3099	3485	3549	3868
Gurley's GI 75	647	1239	398	333	589	3205	3638	4212	
Maton ^{1/}	294	1063	394	558	703	3012	3860		
Athens Abruzzi	654	1288	373	319	632	3266	3867		
NF 324	487	1102	523	469	839	3420	4121		
NF 270	296	1132	531	466	914	3339	3832		
ACCO 811	384	1002	573	500	783	3242			
Gurley's GI 76	408	1134	320	426	531	2819			
Wintergrazer A	599	1242	480	396	628	3345			
WHEAT									
Coker 68-15		1057	537	618	581	2793	3608	3764	4098
DeKalb 9190 ^{2/}		542	343	683	1004	2572	3659	4071	4694
DeKalb 9090+9190 ^{2/}		347	370	792	1244	2753	3949	4125	
Blue Boy II		847	447	472	636	2402	3365		
DeKalb 9490 ^{2/}		336	295	722	988	2341	3746		
DeKalb 9060 ^{2/}		641	242	443	812	2138	3205		
Wakeland		1088	475	350	565	2478			

^{1/}Previously tested as NF 331

^{2/}Wheat x Agrotricum hybrid

Table 6. REACTION OF OAT VARIETIES AND EXPERIMENTAL LINES TO SOME DISEASES IN ALABAMA

Variety	Crown rust	Helminthosporium leaf blotch	Septoria leaf blotch	Loose smut
NORTHERN ALABAMA				
Carolee	S	S	S	R
Coker 66-22	S	S	R	R
Coker 70-16 ^{1/}	R	S	R	R
Coker 73-14 ^{1/}	R	S	R	R
Coker 227 ^{2/}	R	S	R	R
Cumberland ^{1/}	S	S	R	R
Elan ^{1/}	R	S	R	R
Salem ^{1/}	R	S	R	R
Windsor	S	S	S	R
CENTRAL ALABAMA				
Carolee	S	S	S	R
Coker 67-22	S	S	S	R
Coker 70-16 ^{1/}	R	R	R	R
Coker 73-14 ^{1/}	S	S	R	R
Coker 75-10 ^{1/}	R	R	R	R
Coker 75-11 ^{1/}	R	R	R	R
Coker 227	R	S	R	R
Coker 242	R	S	R	R
Elan ^{2/}	R	S	R	R
Fla. 501	R	S	R	R
Roanoke	S	S	S	R
Salem ^{1/}	R	R	R	R
Windsor	R	S	S	R
SOUTHERN ALABAMA				
Coker 67-22	S	S	R	R
Coker 73-31 ^{1/}	S	R	R	R
Coker 75-10 ^{1/}	R	R	R	R
Coker 75-11 ^{1/}	R	R	R	R
Coker 75-14 ^{1/}	R	R	R	R
Coker 227	S	S	S	R
Coker 242	S	S	R	R
Elan	S	S	R	R
Fla. 501	S	S	R	R
FL 70Q 1153 ^{1/}	R	R	R	R
Salem ^{1/}	S	R	R	R
Windsor	S	S	R	R

^{1/} 1 year data
^{2/} 2 year's data

Table 7. REACTION OF WHEAT VARIETIES AND EXPERIMENTAL LINES TO SOME DISEASES IN ALABAMA

Variety	Powdery mildew	Leaf rust	Septoria leaf blotch	Loose smut
NORTHERN ALABAMA				
Abe	R	S	S	R
Arthur	R	S	S	R
Arthur 71	R	S	S	R
BlueBoy II	S	R	S	R
Coker 65-20	S	S	S	R
Coker 68-15	S	R	S	R
Coker 74-20 ^{1/}	R	R	S	R
Coker 74-27 ^{1/}	R	S	S	R
Coker 75-6 ^{1/}	R	R	S	R
Doublecrop ^{1/}	R	R	S	R
Ga. 1123	S	S	S	R
Holley	R	R	S	R
McNair 701	R	R	S	R
McNair 1587	R	S	S	R
McNair 3001 ^{1/}	R	S	S	R
McNair 3004 ^{1/}	R	S	S	R
McNair 3006 ^{1/}	R	R	S	R
McNair 4823	S	R	S	R
Oasis ^{1/}	R	S	R	R
Wakeland	S	R	S	S
CENTRAL ALABAMA				
Abe	R	R	S	R
Arthur	S	R	S	R
Arthur 71	R	R	S	R
Blueboy II	S	R	S	R
Coker 65-20	S	S	S	R
Coker 68-15	S	R	S	R
Coker 73-18 ^{1/}	R	R	S	R
Coker 74-20 ^{1/}	R	R	S	R
Coker 747 ^{2/}	R	R	S	R
Coker 75-6 ^{1/}	R	R	S	R
Coker 75-20 ^{1/}	R	R	S	R
Ga. 1123	S	S*	S	R
Holley ^{2/}	R	R	S	R
McNair 701	S	R*	S	R
McNair 1813 ^{1/}	R	R	S	R
McNair 3001 ^{1/}	R	R	S	R
McNair 3006 ^{1/}	R	R	S	R
McNair 4823 ^{1/}	S	R	S	R
Oasis	R	R	S	R
Wakeland	S	S	S	S

Continued:

Continued:

Table 7. REACTION OF WHEAT VARIETIES AND EXPERIMENTAL LINES TO SOME DISEASES IN ALABAMA

Variety	Powdery mildew	Leaf rust	Septoria leaf blotch	Loose smut
SOUTHERN ALABAMA				
Abe	R	R	S	R
Arthur ^{1/}	R	R	R	R
Arthur 71 ^{2/}	R	R	S	R
Blueboy II	S	R	S	R
Coker 65-20	S	S	S	R
Coker 68-15	S	R	S	R
Coker 73-16 ^{1/}	R	R	S	R
Coker 74-20 ^{1/}	R	R	S	R
Coker 74-27 ^{1/}	R	R	S	R
Coker 75-6 ^{1/}	R	R	S	R
Coker 75-20 ^{1/}	R	R	S	R
Coker 75-29 ^{1/}	R	R	S	R
Doublecrop ^{1/}	R	R	S	R
Fla. 103	R	R	S	R
Holley ^{2/}	R	R	S	R
McNair 701	R	S*	S	R
McNair 1813	R	S	S	R
McNair 3001 ^{1/}	R	R	S	R
Pennington 6-23	R	R	S	R
Oasis	R	R	S	R
Wakeland	S	S	S	S

^{1/} 1 year data

^{2/} 2 year's data

* Susceptible to stem rust

Table 8. REACTION OF BARLEY AND RYE VARIETIES AND EXPERIMENTAL LINES TO SOME DISEASES IN ALABAMA

Variety	Powdery mildew	Spot blotch	Net blotch	Leaf rust	Anthracnose	Septoria leaf blotch
BARLEY						
Barsoy _{1/}	R	S	S	S		R
Boone _{1/}	R	S	R	R		R
Fla. 102	R	S	S	S		R
Hanover	R	S	R	R		R
Keowee	R	S	R	S		R
Knob _{1/}	R	S	S	R		R
McNair 601	R	S	S	R		R
Va 72-11-18 _{1/}	R	S	R	R		R
Va 72-44-362 _{1/}	R	S	R	R		R
Volbar _{2/}	R	S	S	R		R
RYE						
ACCO 811	R			S	S	S
Athen's Abruzzi _{1/}	R			R	R	S
Bonel	R			S	S	S
Cougar _{1/}	R			S	S	S
Elbon	S			S	S	S
Explorer	S			S	S	S
Gurley's Grazer 2000 _{2/}	R			R	S	S
NF 324 _{1/}	R			R	R	S
MATON _{2/}	R			R	S	S
Vita Graze	R			S	S	S
Vita Graze N	R			S	S	S
Weser	R			S	S	S
Wintergrazer 70	R			S	S	S
Wren's Abruzzi	R			S	S	S

_{1/} 1 year data

_{2/} 2 years data

VARIETIES RECOMMENDED FOR FORAGE AND GRAIN

Recommendations are based on regional yield of forage plus grain. For varieties, ratio of forage to grain will vary and should be considered in varietal selection. Varieties are listed alphabetically. For reaction to diseases see Tables 6, 7, and 8.

NORTHERN ALABAMA

<u>Oats</u>	<u>Barley</u>	<u>Rye</u>	<u>Wheat</u>
Carolee ^{1/}	Barsoy	ACCO 811	Arthur ^{2/}
Coker 227	Keowee	Bonel	Blue Boy II
Coker 66-22	Volbar	Maton	Coker 68-15
		McNair Vita Graze	Ga. 1123
		Wintergrazer 70	Holley ^{2/}
			Wakeland

CENTRAL ALABAMA

<u>Oats</u>	<u>Barley</u>	<u>Rye</u>	<u>Wheat</u>
Carolee ^{1/}	Barsoy	ACCO 811	Abe
Coker 227		Gurley's Grazer 2000	Arthur
Fla. 501 ^{2/}		McNair Vita Graze	Arthur 71 ^{2/}
		Weser	Blue Boy II
		Wren's Abruzzi	Coker 68-15
			Wakeland

SOUTHERN ALABAMA

<u>Oats</u>	<u>Rye</u>	<u>Wheat</u>
Coker 227	ACCO 811	Blue Boy II
Elan	Gurley's Grazer 2000	Coker 68-15
Fla. 501	McNair Vita Graze	Wakeland
	Weser	
	Wren's Abruzzi	

^{1/}Seed were not received in time for planting in the Fall of 1975. Carolee is recommended on the basis of data from previous years.

^{2/}If present trends continue, this variety will be removed from the recommended list next year for forage and grain in the region indicated.

VARIETIES RECOMMENDED FOR GRAIN ONLY

Recommendations are based on yield and lodging and are listed in alphabetical order. For reaction to diseases see Tables 6, 7, and 8.

NORTHERN ALABAMA

<u>Oats</u>	<u>Barley</u>	<u>Rye</u>	<u>Wheat</u>
Carolee ^{1/}	Barsoy	ACCO 811	Abe
Coker 227	Volbar	Bonel	Arthur
Coker 66-22 ^{2/}		Maton	Arthur 71
		McNair Vita Graze	Blue Boy II
		Wintergrazer 70	Coker 68-15
			Coker 747 ^{3/}
			Ga. 1123
			Wakeland

CENTRAL ALABAMA

<u>Oats</u>	<u>Rye</u>	<u>Wheat</u>
Carolee ^{1/}	ACCO 811	Abe
Coker 227	Gurley's Grazer 2000	Arthur
Elan	McNair Vita Graze	Arthur 71
Fla. 501 ^{2/}	Weser	Coker 68-15
	Wren's Abruzzi	

SOUTHERN ALABAMA

<u>Oats</u>	<u>Rye</u>	<u>Wheat</u>
Coker 227	Weser	Abe
Elan	Wren's Abruzzi	Arthur 71
		Blue Boy II
		Coker 68-15
		Wakeland

^{1/}Seed were not received in time for planting in the Fall of 1975. Carolee is recommended on the basis of data from previous years.

^{2/}If present trends continue, this variety will be removed from the recommended list next year for grain production in the region indicated.

^{3/}Trial basis.

SOURCES OF SEED

OATS

Carolee-----North Carolina Foundation Seed Producers, Inc.
 Raleigh, North Carolina

Coker (all varieties)-Coker's Pedigreed Seed Company, Hartsville,
 South Carolina

Elan-----Georgia Seed Development Commission, Athens, Georgia

Fla. 501-----North Florida Experiment Station, Quincy, Florida

Fl 70 Q 1153-----North Florida Experiment Station, Quincy, Florida

Salem-----North Carolina Foundation Seed Producers, Inc.,
 Raleigh, North Carolina

BARLEY

Barsoy-----Department of Agronomy, University of Kentucky,
 Lexington, Kentucky

Boone-----North Carolina Foundation Seed Producers, Inc.,
 Raleigh, North Carolina

Keowee-----Department of Agronomy, Clemson University,
 Clemson, South Carolina

McNair 3004-----McNair Seed Company, Laurinburg, North Carolina

Va. 72-11-18-----Department of Agronomy, Virginia Polytechnic
 Institute and State University, Blacksburg,
 Virginia

Va. 72-44-362-----Department of Agronomy, Virginia Polytechnic
 Institute and State University, Blacksburg,
 Virginia

Volbar-----Department of Agronomy, University of Tennessee,
 Knoxville, Tennessee

RYE

ACCO 811-----ACCO Seed, Plainview, Texas

Athens Abruzzi-----Georgia Seed Development Commission, Athens,
 Georgia

Bonel-----Noble Foundation, Ardmore, Oklahoma

Gurley's-----Gurley's Inc., Selma, North Carolina

Maton (NF 331)-----Noble Foundation, Ardmore, Oklahoma

NF-----Noble Foundation, Ardmore, Oklahoma

Vita Graze-----McNair Seed Company, Laurinburg, North Carolina

Weser-----Foundation Seed Stocks Farm, Thorsby, Alabama

Wintergrazer-----Pennington Grain & Seed, Inc., Madison, Georgia

Wren's Abruzzi-----Foundation Seed Stocks Farm, Thorsby, Alabama

WHEAT

Abe-----Department of Agronomy, Purdue University,
 Lafayette, Indiana

Arthur-----Department of Agronomy, Purdue University,
 Lafayette, Indiana

Arthur 71-----Department of Agronomy, Purdue University,
 Lafayette, Indiana

Blueboy II-----North Carolina Foundation Seed Producers, Inc.,
 Raleigh, North Carolina

Coker(all varieties)-Coker's Pedigreed Seed Company, Hartsville,
 South Carolina
 DeKalb-----DeKalb AgResearch, Inc., Wichita, Kansas
 Doublecrop-----Northeast Branch Experiment Station, Keiser,
 Arkansas
 Ga. 1123-----Georgia Seed Development Commission, Athens,
 Georgia
 Gurley's-----Gurley's, Inc., Selma, North Carolina
 Holley-----Georgia Seed Development Commission, Athens,
 Georgia
 McNair-----McNair Seed Company, Laurinburg, North Carolina
 OASIS-----Department of Agronomy, Purdue University,
 Lafayette, Indiana
 Wakeland-----Foundation Seed Stocks Farm, Thorsby, Alabama

