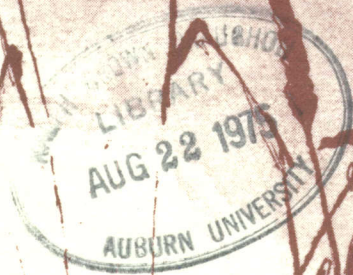


# small grain variety report 1975



Department of Agronomy and Soils  
Agricultural Experiment Station  
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Small grain varieties were tested during the 1974-75 season by the Auburn University Agricultural Experiment Station at 13 locations in the State. These tests were conducted to furnish information on the relative performance of varieties and not as an absolute measure of the yielding potential of a variety in an area of the State. The 1974-75 season was characterized by a mild winter, especially in southern Alabama, and an unusually wet spring. Both of these were favorable for a high incidence of diseases which reduced yields. Although the winter was mild, rusts were not a serious problem in the tests this season. Powdery mildew and Septoria leaf and glume blotch were the primary problems on wheat. Other diseases causing damage were primarily, anthracnose on rye, Helminthosporium leaf blotch on oats, spot and net blotch on barley, and Barley Yellow Dwarf Virus on oats and barley.

Since small grains are grown for both forage and grain production, two series of plots are used in the testing program. One series is managed to determine grain production only. The other series is managed to determine fall and early winter forage yield and the effect of its removal on subsequent grain production of each variety. Plots managed for forage and grain production were planted in late-September or early-October. Plots managed for grain production only were planted in late-October or November.

Tests for total forage production were conducted at Prattville and Tallassee. These plots are clipped until no regrowth occurs and data are presented by clipping date to show the seasonal distribution of the different varieties. The DeKalb wheat X Agroticum hybrids in these tests are poor grain producers and should be planted for forage only, tables 4 and 5.

The experimental design was a split plot with species as main-plots and varieties as sub-plots. Plots were three rows wide, either 18 or 20 feet long, and replicated three times. Recommended cultural practices were followed and were the same for all entries within a management series at a location.

Table 1 shows the forage produced by late February and the amount of feed produced by several varieties under the two systems of management. Average values for yield, date 1/10 headed, height, and lodging for the unclipped tests are given by regions in Table 2. Similar data for the clipped tests are presented in Table 3. Yields of tests managed for forage production only are presented in tables 4 and 5. Varietal reactions to diseases are presented in Table 6.

Late planting and mild winters may result in delayed heading or failure to head, in wheat, especially with northern varieties (Arthur, Arthur 71, Abe, Oasis). Winter wheats require a period of cold temperatures (vernalization) to head properly. Winter-hardy types developed in the northern U.S. required a longer cold period than varieties developed in the southern U.S. This difference was shown in a test in southern Alabama this season. Seed of a northern variety (Abe) and a southern variety (Coker 74-10) were vernalized in the laboratory for one month at 35°F. Both vernalized and unvernallized seed of these varieties were

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planted December 27 at the Gulf Coast Substation. The influence of vernalization on heading date is shown in Table 7. Lack of vernalization resulted in a 1-month delay in heading of the northern variety (Abe) but only a 1-week delay in the southern variety (Coker 74-10). If these northern varieties are planted in central or southern Alabama, it is suggested that planting be made before December.

Variety recommendations are made for two situations: (1) grain production only, and (2) forage and grain production combined. Variety recommendations in this report are for general regions of the State. They are based on performance at several locations in each region. Recommendations are made on the basis of the last 3 years' data; however, results over a longer period of time are considered when available. Varieties which have a good record for 2 years are recommended on a trial basis.

Evaluations of disease resistance were made on entries in the 1974-75 tests. Several diseases occur in small grains, but only those that are most common and damaging 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 R, or resistant, means that the variety has thus far appeared unaffected or only slightly so by the particular disease. A rating of S means that 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.

Location of these 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

Piedmont Substation, Camp Hill - W. A. Griffey, Superintendent  
Agronomy Farm, Auburn - E. M. Evans, in charge  
Plant Breeding Unit, Tallassee - J. W. Langford, Superintendent  
Experiment Field, Prattville - F. T. Glaze, Superintendent  
Black Belt Substation, Marion Junction - L. A. Smith, Superintendent

#### SOUTHERN ALABAMA

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

Table 1. FORAGE AND GRAIN YIELD OF SMALL GRAIN VARIETIES TESTED, 1971-75.

Variety	Yield of clipped plots, average						Total feed, 1973-75 av.	
	Oven dry forage					Grain 3-yr. 1973-75	Not clipped grain only	Clipped forage and grain
	1-yr. 1975	2 yr. 1974-75	3-yr. 1973-75	4-yr. 1972-1975	5 yr. 1971-75			
	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	298	903	1224	1292	1316	1294	1385	2518
Carolee	441	995	1180	1186	1107	974	1441	2154
Windsor	294	656	915			747	1052	1662
Coker 227	320	861						
Cumberland	247	619						
Coker 234	645							
Elan	456							
Coker 74-22	349							
BARLEY								
Hanover	668	1035	1208	1171	1211	734	1193	1942
Barsoy	489	1130	1252	1183	1129	986	1325	2238
Keowee	342	873	1020	999		1272	1341	2292
Volbar	221	712						
RYE								
Vita Graze	1098	1492	1702	1906	1985	586	669	2288
Explorer	1046	1485	1711	1793	1921	838	864	2549
Bonel	1017	1437	1623	1755	1867	1103	919	2726
Wintergrazer 70	867	1368	1595	1691	1824	1099	946	2694
Elbon	856	1329	1574	1742	1822	579	850	2153
Vita Graze N	1091	1607						
NF 331	954	1550						
Acco 811	850	1462						
Wrens Abruzzi	1140							
G Grazer 2000	1002							
Athens Abruzzi	882							
WHEAT								
Coker 65-20	661	1216	1510	1574	1681	805	1298	2315
Wakeland	613	1257	1506	1505	1546	817	1185	2323
Ga. 1123	552	1082	1372	1429	1454	1155	1210	2527
Arthur	344	845	1043	1096	1131	1194	1330	2237
McNair 701	611	1185	1565	1536		630	950	2195
Coker 68-15	671	1189	1471	1508		703	1105	2174
Blueboy II	564	1315	1703			729	1100	2432
McNair 4823	405	990	1297			1074	1381	2371
Holley	589	1028	1260			1009	993	2269
Arthur 71	425	861	1029			1114	1202	2143
Abe	302	746	763			1087	1264	1850
Coker 73-18	632							
Coker 74-27	441							
Oasis	393							

Table 1. FORAGE AND GRAIN YIELD OF SMALL GRAIN VARIETIES TESTED, 1971-75.  
(Cont'd.)

Variety	Yield of clipped plots, average						Total feed, 1973-75 av.	
	Oven dry forage					Grain	Not clipped grain only	Clipped forage and grain
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-yr.		
	1975	1974-75	1973-75	1972-1975	1971-75	1973-75	Lb.	Lb.
Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	
CENTRAL ALABAMA								
Number of tests	(4)	(8)	(12)	(16)	(19)	(11)	(11)	(11)
OATS								
Roanoke	1670	1889	1906	1944	2042	1056	1248	2962
Coker 242	1549	1855	1937	1961	2026	764	1003	2701
Fla. 501	1687	1848	1837	1855	1885	850	1297	2687
Carolee	1608	1710	1666	1609	1727	1197	1379	2863
Coker 227	1613	1733	1801			1459	1809	3260
Windsor	1346	1550	1619			760	1253	2379
Elan	1480	1681						
Coker 234	1824							
Coker 74-22	1551							
BARLEY								
McNair 601	1604	1877	1949	1866	1970	178	460	2127
Barsoy	1547	1819	1809	1729	1885	709	1204	2518
Keowee	1298	1442	1584	1508	1686	442	742	2026
Hanover	1154	1518						
Volbar	1177							
RYE								
Vita Graze	1855	1990	2207	2260	2446	495	742	2702
Explorer	1940	2132	2212	2255	2413	646	865	2858
Weser	1955	2039	2134	2183	2346	726	849	2860
Acco 811	1790	1986	2112	2132	2309	671	794	2783
Wrens Abruzzi	1889	2030	2074	2090	2274	876	868	2950
Vita Graze N	1953	2349	2365			575	842	2940
G Grazer 2000	1788	2227						
Wrens Abruzzi	1825							
NF 331	1816							
Wintergrazer 70	1807							
WHEAT								
Coker 65-20	1714	2024	2090	2150	2343	653	1003	2743
Wakeland	1855	2083	2085	2144	2320	628	949	2713
Coker 68-15	1726	1892	1980	2109	2297	707	1390	2687
McNair 701	1734	1951	2144	2150		428	807	2572
Arthur	1119	1345	1447	1564		1300	1452	2747
Blueboy II	1673	1975	2138			488	1210	2626
Arthur 71	1152	1242	1371			1159	1540	2530
Abe	953	1135	1263			1420	1584	2683
Holley	1759	1822						
McNair 4823	1444	1549						
Coker 73-18	1500							
Coker 74-27	1213							
Oasis	1165							

Table 1. FORAGE AND GRAIN YIELD OF SMALL GRAIN VARIETIES TESTED, 1971-75.  
(Cont'd.)

Variety	Yield of clipped plots, average						Total feed, 1973-75 av.	
	Oven dry forage					Grain	Not clipped forage and grain	Clipped forage and grain
	1-yr. 1975	2-yr. 1974-75	3-yr. 1973-75	4-yr. 1972-1975	5-yr. 1971-75	3-yr. 1973-75		
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
SOUTHERN ALABAMA								
Number of tests	(5)	(10)	(15)	(20)	(25)	(15)	(15)	(15)
OATS								
Fla. 501	1439	1662	1722	1686	1833	1163	761	2885
Elan	1241	1509	1493	1465	1611	1127	1405	2620
Coker 227	1052	1517	1453			1580	1166	3033
FL70Q1153	2066							
Coker 234	1408							
Coker 74-22	1090							
RYE								
Vita Graze	2141	2279	2236	2069	2277	227	456	2463
Weser	1982	2224	2187	2028	2258	493	600	2680
Wrens Abruzzi	2133	2268	2155	1972	2164	524	574	2679
Acco 811	1879	2095	2098	1970	2156	333	359	2431
Vita Graze N	2132	2262	2218			270	355	2488
G Grazer 2000	2010	2180	2171			397	482	2568
Athens Abruzzi	1854							
NF 331	1810							
Wintergrazer 70	1758							
WHEAT								
Coker 65-20	1652	1813	1844	1701	1986	616	868	2460
Wakeland	1693	1902	1872	1717	1882	748	810	2620
Coker 68-15	1478	1606	1699	1641	1856	759	874	2458
McNair 701	1354	1647	1692	1586		453	585	2145
Blueboy II	1498	1762	1805			731	821	2536
McNair 1813	1652	1741	1724			316	593	2040
Abe	733	1067	1039			1182	1023	2221
Holley	1435	1613						
Arthur	992	1219						
Arthur 71	847	1127						
Coker 74-10	1583							
Coker 74-13	1303							
Coker 74-14	1301							
Coker 73-18	1150							
McNair 4823	1036							
Oasis	988							
Coker 74-27	782							



Table 2. GRAIN YIELD AND OTHER CHARACTERISTICS OF UNCLIPPED SMALL GRAIN VARIETIES TESTED, 1971-75

Variety	Regional average yield per acre					Other characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-Year average		
	1975	1974-75	1973-75	1972-75	1971-75	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	52	52	43	45	56	38	41	4/22
Carolee	48	52	45	45	55	43	37	4/24
Windsor	32	36	33			29	39	4/20
Coker 227	55	61						
Cumberland	46	44						
Coker 74-22	49							
Coker 234	44							
Elan	41							
BARLEY								
Barsoy	38	37	28	26	28	22	29	4/2
Hanover	24	27	25	23	28	34	30	4/10
Keowee	26	28	28	27		40	33	4/16
Volbar	34	37						
RYE								
Bonel	18	20	16	22	27	29	56	4/1
Wintergrazer 70	20	20	17	22	26	27	53	3/29
Explorer	19	19	15	19	24	28	53	3/27
Elbon	29	21	15	19	24	34	55	3/29
Vita Graze	14	15	12	16	22	32	52	3/27
NF 331	22	21						
Vita Graze N	22	21						
ACCO 811	18	17						
Athens Abruzzi	23							
Wrens Abruzzi	21							
G Grazer 2000	16							
WHEAT								
Coker 65-20	27	23	22	24	28	11	39	4/12
Arthur	29	23	22	25	27	9	35	4/15
Ga. 1123	25	21	20	22	27	9	40	4/12
Wakeland	20	22	20	21	26	18	38	4/12
Coker 68-15	23	22	18	22		2	32	4/10
McNair 701	23	20	16	17		9	31	4/6
McNair 4823	26	25	23			3	33	4/25
Abe	28	24	21			10	33	4/15
Arthur 71	27	22	20			13	34	4/15
Blueboy II	20	19	18			4	35	4/14
Holley	20	19	17			12	37	4/7
Coker 74-27	31							
Coker 73-18	29							
Oasis	27							

(6)

Table 2. (continued) GRAIN YIELD AND OTHER CHARACTERISTICS OF UNCLIPPED SMALL GRAIN VARIETIES TESTED, 1971-75

Variety	Regional average yield per acre					Other characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-Year average		
	1975	1974-75	1973-75	1972-75	1971-75	Lodging	Height	1/10 Headed
	Bu.	Bu.	Bu.	Bu.	Bu.	Pct.	In.	Date
CENTRAL ALABAMA								
Number of tests	(3)	(7)	(11)	(14)	(17)	(11)	(11)	(11)
OATS								
Carolee	47	49	43	40	45	56	42	4/13
Fla. 501	45	49	41	40	43	32	41	4/2
Roanoke	38	41	39	36	40	55	51	4/14
Coker 242	37	39	31	30	35	40	45	4/13
Coker 227	52	66	57			28	43	4/6
Windsor	38	48	39			33	44	4/9
Elan	61	59						
Coker 234	59							
Coker 74-22	47							
BARLEY								
Barsoy	37	32	25	23	24	22	27	3/21
Keowee	21	20	15	16	22	11	29	4/2
McNair 601	8	11	10	12	15	8	28	3/28
Hanover	27	20						
Volbar	34							
RYE								
Weser	16	18	15	21	23	22	50	3/13
Wrens Abruzzi	16	20	15	20	22	27	50	3/13
ACCO 811	16	18	14	19	21	27	51	3/14
Explorer	16	20	15	20	21	27	49	3/13
Vita Graze	18	17	13	18	20	29	49	3/12
Vita Graze N	17	20	15			25	51	3/13
G Grazer 2000	17	18						
Athens Abruzzi	19							
Wintergrazer 70	18							
NF 331	16							
WHEAT								
Coker 68-15	34	31	23	26	28	3	37	4/2
Wakeland	21	20	16	18	20	30	38	3/28
Coker 65-20	26	21	17	17	19	9	39	3/27
Arthur	32	32	24	26		4	38	4/3
McNair 701	16	16	13	16		18	33	3/24
Abe	28	31	26			10	36	4/4
Arthur 71	32	32	26			5	36	4/3
Blueboy II	28	25	20			4	37	4/1
McNair 4823	30	30						
Holley	17	18						
Coker 74-27	35							
Oasis	34							
Coker 73-18	31		(7)					

Table 2. (continued) GRAIN YIELD AND OTHER CHARACTERISTICS OF UNCLIPPED SMALL GRAIN VARIETIES TESTED, 1971-75

Variety	Regional average yield per acre					Other characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-Year average		
	1975	1974-75	1973-75	1972-75	1971-75	Lodging	Height	1/10
	Bu.	Bu.	Bu.	Bu.	Bu.	Pct.	In.	Date
SOUTHERN ALABAMA								
Number of tests	(5)	(10)	(15)	(20)	(22)	(15)	(15)	(15)
OATS								
Elan	43	39	44	38	46	22	41	4/3
Fla. 501	23	22	24	24	35	25	42	3/29
Coker 227	33	33	36			12	45	4/5
Coker 234	31							
Coker 74-22	22							
FL 70Q1153	16							
RYE								
Weser	9	13	11	14	15	31	49	3/13
Wrens Abruzzi	8	11	10	13	14	33	50	3/13
Vita Graze	9	9	8	10	12	41	49	3/12
ACCO 811	4	6	6	10	12	37	48	3/14
G Grazer 2000	7	9	9			32	50	3/12
Vita Graze N	5	7	6			38	49	3/12
Winter grazer 70	9							
NF 331	7							
Athens Abruzzi	7							
WHEAT								
Coker 68-15	17	13	15	15	19	9	35	4/8
Wakeland	18	13	13	13	16	15	38	3/28
Coker 65-20	21	15	14	13	14	9	39	3/23
McNair 701	11	8	10	7		13	33	3/15
Abe	19	16	17			6	34	4/9
Blueboy II	16	13	14			6	37	3/28
McNair 1813	14	9	10			7	31	3/17
Arthur 71	19	15						
Arthur	15	12						
Holley	14	10						
Coker 73-18	24							
Oasis	21							
Coker 74-27	20							
Coker74-14	20							
Coker 74-13	19							
Coker 74-10	16							
McNair 4823	13							

Table 3. GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN VARIETIES TESTED, 1971-75.

Variety	Regional average yield per acre					Other characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-yr. average		
	1975	1974-75	1973-75	1972-75	1971-75	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	46	43	40	44	56	24	38	4/21
Carolee	41	34	30	31	43	23	36	4/25
Windsor	25	20	23			25	34	4/20
Cumberland	49	42						
Coker 227	51	37						
Coker 234	49							
Coker 74-22	37							
Elan	33							
BARLEY								
Barsoy	32	26	21	20	26	25	26	3/30
Hanover	21	15	15	15	21	24	26	4/14
Keowee	36	27	26	25		31	30	4/14
Volbar	41	36						
RYE								
Bonel	25	23	20	23	28	32	54	4/1
Wintergrazer 70	26	22	20	24	27	31	54	4/1
Explorer	20	18	15	17	21	31	51	3/30
Elbon	19	14	10	15	20	35	50	4/1
Vita Graze	12	13	10	14	18	34	52	4/2
NF 331	21	20						
ACCO 811	18	16						
Vita Graze N	20	16						
Wrens Abruzzi	22							
Athens Abruzzi	21							
G Grazer 2000	17							
WHEAT								
Arthur	25	21	20	22	25	11	31	4/14
Ga. 1123	24	19	19	22	24	12	37	4/16
Coker 65-20	19	13	13	18	20	11	33	4/17
Wakeland	16	13	14	17	19	19	34	4/17
Coker 68-15	14	12	12	17		9	29	4/14
McNair 701	17	11	10	13		9	27	4/11
Arthur 71	25	20	19			12	31	4/12
Abe	25	21	18			12	30	4/13
McNair 4823	21	18	18			6	32	4/25
Holley	20	16	17			16	35	4/14
Blueboy II	15	12	12			7	32	4/18
Coker 74-27	29							
Oasis	25							
Coker 73-18	21							

Table 3. (Continued) GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN VARIETIES TESTED, 1971-75.

Variety	Regional average yield per acre					Other characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-yr. average		
	1975	1974-75	1973-75	1972-75	1971-75	Lodging	Height	1/10 Headed
	Bu.	Bu.	Bu.	Bu.	Bu.	Pct.	In.	Date
CENTRAL ALABAMA								
Number of tests (3)	(7)	(11)	(14)	(17)	(11)	(11)	(11)	(11)
OATS								
Carolee	44	37	37	34	41	19	35	4/17
Roanoke	27	27	33	31	37	18	43	4/17
Fla. 501	19	21	27	24	32	21	32	4/11
Coker 242	22	19	24	21	29	12	37	4/15
Coker 227	40	42	46			10	34	4/10
Windsor	25	23	24			18	36	4/11
Elan	33	26						
Coker 74-22	47							
Coker 234	35							
BARLEY								
Barsoy	14	16	15	15	19	14	22	3/27
Keowee	15	11	9	10	16	8	22	4/6
McNair 601	1	3	4	5	11	8	24	4/5
Hanover	7	8						
Volbar	19							
RYE								
Wrens Abruzzi	11	17	16	18	21	7	48	3/24
ACCO 811	11	13	12	16	19	13	47	3/25
Weser	10	13	13	16	18	6	47	3/25
Explorer	8	12	12	14	16	10	47	3/25
Vita Graze	6	9	9	12	15	10	46	3/25
Vita Graze N	10	11	10			16	46	3/25
G Grazer 2000	10	14						
NF 331	13							
Wintergrazer 70	12							
Athens Abruzzi	10							
WHEAT								
Coker 68-15	11	14	12	15	19	2	30	4/4
Wakeland	7	8	10	13	15	5	33	4/7
Coker 65-20	9	11	11	11	15	0	32	4/1
Arthur	18	20	22	24		1	31	4/4
McNair 701	8	6	7	9		4	27	4/1
Abe	25	22	24			2	30	4/4
Arthur 71	16	17	19			1	32	4/4
Blueboy II	7	9	8			1	30	4/9
McNair 4823	13	15						
Holley	10	10						
Coker 74-27	22							
Oasis	18							
Coker 73-18	12							

Table 3. (Continued) GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN VARIETIES TESTED, 1971-75.

Variety	Regional average yield per acre					Other characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-yr. average		
	1975	1974-75	1973-75	1972-75	1971-75	Lodging	Height	Headed
	Bu.	Bu.	Bu.	Bu.	Bu.	Pct.	In.	1/10
								Date
SOUTHERN ALABAMA								
Number of tests	(5)	(10)	(15)	(20)	(22)	(15)	(15)	(15)
OATS								
Fla. 501	33	25	36	31	42	17	37	4/5
Elan	34	23	35	29	41	20	35	4/10
Coker 227	42	40	49			12	39	4/7
Coker 234	48							
Coker 74-22	38							
Fl. 70 Q 1153	20							
RYE								
Wrens Abruzzi	7	11	9	13	15	27	46	3/21
Weser	6	10	9	14	15	25	46	3/20
ACCO 811	4	5	6	11	12	38	45	3/21
Vita Graze	2	4	4	9	11	42	45	3/20
G Grazer 2000	5	8	7			33	46	3/21
Vita Graze N	5	5	5			40	45	3/20
Wintergrazer 70	9							
NF 331	7							
Athens Abruzzi	7							
WHEAT								
Wakeland	10	11	12	12	16	10	34	3/29
Coker 68-15	18	12	13	12	16	9	32	4/3
Coker 65-20	13	8	10	10	13	14	33	3/28
McNair 701	10	6	8	8		14	29	3/23
Abe	25	18	20			6	31	4/3
Blueboy II	14	11	12			9	33	4/1
McNair 1813	7	4	5			8	28	3/25
Arthur 71	19	14						
Arthur	19	14						
Holley	12	10						
Coker 73-18	29							
Coker 74-27	26							
Oasis	21							
Coker 74-14	15							
McNair 4823	10							
Coker 74-13	8							
Coker 74-10	6							

Table 4. FORAGE YIELD OF SMALL GRAIN VARIETIES TESTED - PRATTVILLE 1972-75

Oven dry forage yield - pounds per acre									
Clipping date - 1974-75									
Variety	1-16-75	2-14-75	3-17-75	4-4-75	4-28-75	Total	2-yr. av.	3-yr. av.	4-yr. av.
<b>OATS</b>									
Roanoke	1326	892	1042	911	667	4838	6202	5932	5476
Coker 227	1213	955	1219	828	683	4900	5562	5788	
Ga. 7199	1680	564	735	716	460	4156	4772	4687	
Coker 74-22	1108	1082	1244	722	617	4775			
Fl. 70Q 1153	2254	--	--	-	-	2254			
<b>BARLEY</b>									
Keowee	1176	1049	1398	492	-	4117	4677	4598	4060
McNair 601	1537	920	1038	226	-	3722	4489	4714	4352
Hanover	941	677	903	450	344	3316	4122		
<b>RYE</b>									
Vita Graze	2180	660	911	572	326	4652	4865	4824	4587
Explorer	2042	727	920	701	423	4815	4859	4953	4781
Wintergrazer 70	1767	744	1215	754	561	5044	4968	5006	4958
Weser	1909	711	999	698	373	4693	4946	4985	4818
Wrens Abruzzi	2109	704	1062	692	481	5050	4949	4991	4788
Vita Graze N	2014	714	988	614	416	4749	4690	4787	
Gurley's Grazer 2000	2151	509	888	717	387	4654	4723	4631	
Gurley GI 75	1962	624	958	703	442	4691			
Excel 101	2130	705	1034	697	373	4940			
Excel 102	2176	623	968	687	368	4824			
Excel 103	2235	645	1092	661	380	5015			
NF 331	1910	809	1251	835	469	5275			
Athens Abruzzi	2054	746	1245	654	412	5113			
NF 324	1891	810	1278	684	462	5127			
NF 270	1929	795	1185	748	431	5090			
<b>WHEAT</b>									
Coker 65-20	1252	1159	568	306	-	3285	3673	3913	4041
Coker 68-15	986	1075	1460	422	-	3944	4556	4548	4588
DeKalb 9190 *	735	895	1479	874	307	4292	5365	5453	
DeKalb 9090+9190*	828	875	1627	815	379	4527	5363		
Blueboy II	1033	1305	1312	364	-	4014			
DeKalb 9490*	427	983	1817	678	480	4387			
DeKalb 9060*	1008	837	1118	783	545	4294			

\*Wheat x Agroticum hybrid

Table 5. FORAGE YIELD OF SMALL GRAIN VARIETIES TESTED - TALLASSEE, 1972-75

Variety	Oven dry forage yield - pounds per acre							Total	2-yr. av.	3-yr. av.	4-yr. av.
	Clipping date - 1974-75										
	12-4-74	1-3-75	1-29-75	2-21-75	3-21-75	4-10-75	5-6-75				
<b>OATS</b>											
Roanoke	180	458	563	937	836	570	1288	4832	4467	5230	4807
Coker 227	201	366	793	1191	725	420	1239	4937	4278	4792	
Ga. 7199	464	496	662	554	388	314	965	3843	3441	3879	
Coker 74-22	263	593	808	1119	743	424	1355	5306			
FL. 70Q 1153	834	316	-	35	49	103	845	2181			
<b>BARLEY</b>											
Keowee	184	177	577	1033	747	408	315	3441	3059	3301	3288
McNair 601	193	319	614	992	283	68	246	2716	2669	3325	3121
Hanover	161	402	379	807	557	200	340	2844	2908		
<b>RYE</b>											
Vita Graze	557	899	702	740	392	319	486	4095	3996	4325	4688
Explorer	436	691	737	834	517	361	647	4223	4154	4538	4870
Wintergrazer 70	360	513	723	1092	666	402	1128	4884	4293	4784	5230
Weser	485	737	661	911	418	319	560	4091	4033	4329	4706
Wrens Abruzzi	455	678	656	825	442	345	618	4019	3938	4250	4695
Vita Graze N	448	759	620	935	600	455	1083	4901	4514	4692	
Gurley's Grazer 2000	496	650	656	639	428	353	650	3871	3774	4124	
Gurley's GI 75	435	726	678	769	501	353	609	4072			
Excel 101	494	730	715	930	553	396	672	4490			
Excel 102	553	828	703	807	489	408	556	4344			
Excel 103	594	826	617	846	507	294	394	4079			
NF 331	442	586	769	1100	688	393	731	4708			
Athens Abruzzi	413	662	799	968	651	343	633	4469			
NF 324	429	630	834	1075	650	409	795	4822			
NF 270	423	530	797	1043	550	367	614	4325			
<b>WHEAT</b>											
Coker 65-20	441	652	814	531	442	318	650	3848	3688	3942	4103
Coker 68-15	378	501	788	1132	603	356	666	4423	4249	4533	4780
DeKalb 9190*	267	369	648	986	929	440	1108	4746	4821	5402	5550
DeKalb 9090+9190*	262	465	673	1089	987	572	1097	5145	4811		
Blue Boy II	457	441	922	1073	449	354	663	4328			
DeKalb 9490*	104	317	771	1326	923	358	1353	5151			
DeKalb 9060*	396	586	424	573	594	488	1211	4272			

\*Wheat x Agroticum hybrid



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

Variety	Crown rust	Helminthosporium leaf blotch	Septoria blotch	Loose smut
NORTHERN ALABAMA				
Carolee	S	S	S	R
Coker 66-22	S	S	R	R
Coker 74-22 <sup>1/</sup>	R	S	R	R
Coker 227	R	S	R	R
Coker 234 <sup>1/</sup>	R	S	R	R
Cumberland	S	S	R	R
Elan <sup>1/</sup>	R	S	R	R
Windsor	S	S	S	R
CENTRAL ALABAMA				
Carolee	S	S	S	R
Coker 74-22 <sup>1/</sup>	R	S	R	R
Coker 227	R	S	R	R
Coker 234	R	S	S	R
Coker 242	R	S	R	R
Elan	R	S	R	R
Fla. 501	R	S	R	R
Roanoke	S	S	S	R
Windsor	R	S	S	R
SOUTHERN ALABAMA				
Coker 74-22 <sup>1/</sup>	R	S	R	R
Coker 227	S	S	S	R
Coker 234	R	S	R	R
Elan	S	S	R	R
Fla. 501	S	S	R	R
F1 70Q1153 <sup>1/</sup>	R	S	R	R

<sup>1/</sup> 1 year data

Table 6 cont. REACTION OF WHEAT VARIETIES TO SOME DISEASES IN ALABAMA

Variety	Powdery mildew	Leaf rust	Septoria blotch	Loose smut
NORTHERN ALABAMA				
Abe	S	R	S	R
Arthur	S	R	S	R
Arthur 71	S	R	S	R
Blueboy II	S	R	S	R
Coker 65-20	S	S	S	R
Coker 68-15	S	R	S	R
Coker 74-27 <sup>1</sup> / <sub>1</sub>	S	R	S	R
Coker 73-18 <sup>1</sup> / <sub>1</sub>	S	R	S	R
Ga. 1123	S	S	S	R
Holley	S	R	S	R
McNair 701	S	R	S	R
McNair 4823	S	S	S	R
Oasis <sup>1</sup> / <sub>1</sub>	S	R	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	S	R	S	R
Coker 74-27 <sup>1</sup> / <sub>1</sub>	S	R	R	R
Holley	S	R	S	R
McNair 701	S	R*	S	R
McNair 4823	S	R	S	R
Oasis <sup>1</sup> / <sub>1</sub>	S	R	R	R
Wakeland	S	S	S	S
SOUTHERN 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	S	R	S	R
Coker 74-10 <sup>1</sup> / <sub>1</sub>	S	R	S	R
Coker 74-13 <sup>1</sup> / <sub>1</sub>	S	R	S	R
Coker 74-14 <sup>1</sup> / <sub>1</sub>	S	R	S	R
Coker 74-27 <sup>1</sup> / <sub>1</sub>	S	S	S	R
Holley	S	R	S	R
McNair 701	S	S*	S	R
McNair 1813	S	R	S	R
McNair 4823	S	R	S	R
Oasis <sup>1</sup> / <sub>1</sub>	S	R	R	R
Wakeland	S	S	S	S

1/ 1 year data

\* Susceptible to stem rust

Table 6 (continued) REACTION OF BARLEY AND RYE TO SOME DISEASES IN ALABAMA

Variety	Powdery mildew	Spot blotch	Net blotch	Leaf rust	Anthracnose	Septoria blotch
BARLEY						
Barsoy	R	S	S	S		
Hanover	R	S	S	R		
Keowee	R	S	S	S		
McNair 601	R	S	S	R		
Volbar	R	S	S	R		
RYE						
ACCO 811	S			S	S	S
Athens Abruzzi <sup>1/</sup>	S			R	R	R
Bonel	S			S	S	S
Elbon	S			S	S	S
Explorer	S			S	S	S
Gurley's Grazer 2000	S			R	S	S
NF 331	S			R	S	R
Vita Graze	S			S	S	S
Vita Graze N	S			S	S	S
Weser	S			S	S	S
Wintergrazer 70	S			S	S	S
Wrens Abruzzi	S			S	S	S

<sup>1/</sup> 1-year data

Table 7. Influence of Seed Vernalization on Heading of Wheat at the Gulf Coast Substation - 1974-75

Variety	Origin	Date headed	
		Vernalized	Not vernalized
Abe	Indiana	April 18	May 18
Coker 74-10	South Carolina	April 4	April 11

VARIETIES RECOMMENDED FOR FORAGE AND GRAIN

(Recommendations are based on regional yield and listed in order of 3-year average total feed production for reaction to disease, see Table 6)

NORTHERN ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>	<u>Barley</u>
Coker 66-22	Ga. 1123	Bonel	Keowee
Carolee	Blue Boy II	Wintergrazer 70	Barsoy
	McNair 4823	Explorer	
	Wakeland	McNair Vita Graze	
	Coker 65-20	Elbon <sup>2/</sup>	
	Holley	McNair Vita Graze N <sup>1/</sup>	
	Arthur	NF 331 <sup>1/</sup>	
	Coker 68-15 <sup>2/</sup>		

CENTRAL ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>	<u>Barley</u>
Coker 227	Arthur	Wrens Abruzzi	Barsoy
Roanoke	Coker 65-20	McNair Vita Graze N	
Carolee	Wakeland	Weser	
Coker 242	Coker 68-15	Explorer	
Fla. 501	Abe	ACCO 811	
	Blue Boy II	McNair Vita Graze	
	Arthur 71	Gurley's Grazer 2000 <sup>1/</sup>	

SOUTHERN ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>
Coker 227	Wakeland	Weser
Fla. 501	Blue Boy II	Wrens Abruzzi
Elan	Coker 65-20	Gurley's Grazer 2000
	Coker 68-15	McNair Vita Graze N
		McNair Vita Graze
		ACCO 811

1/ Trial basis.

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 regional yield and lodging and listed in order of 3 year average yield: for reaction to diseases, see Table 6).

NORTHERN ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>	<u>Barley</u>
Carolee	McNair 4823	Wintergrazer 70	Barsoy
Coker 66-22	Arthur	Bonel	Keowee
Coker 227 <sup>1/</sup>	Coker 65-20		Volbar <sup>1/</sup>
	Abe		
	Ga. 1123		
	Wakeland		
	Arthur 71		
	Coker 68-15 <sup>2/</sup>		

CENTRAL ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>
Coker 227	Arthur 71	Weser
Carolee	Abe	Explorer
Fla. 501	Arthur	Wrens Abruzzi
Elan <sup>1/</sup>	Coker 68-15	McNair Vita Graze N
		ACCO 811

SOUTHERN ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>
Elan	Abe	Weser
Coker 227	Coker 68-15	Wrens Abruzzi
	Coker 65-20	
	Blue Boy II	
	Arthur 71 <sup>1/</sup>	

<sup>1/</sup> Trial basis.

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

## SOURCES OF SEED

### OATS

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

Coker-----Coker's Pedigreed Seed Company, Hartsville, South Carolina

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

Elan-----Coastal Plain Experiment Station, Tifton, Georgia

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

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

Ga. 7199-----Coastal Plain Experiment Station, Tifton, Georgia

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

Windsor-----Department of Agronomy, Virginia Polytechnic Institute  
and State University, Blacksburg, Virginia

### BARLEY

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

Hanover-----Department of Agronomy, Virginia Polytechnic Institute  
and State University, Blacksburg, Virginia

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

McNair 601-----McNair Seed Company, Laurinburg, North Carolina

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

### RYE

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

Bonel-----Noble Foundation, Inc., Ardmore, Oklahoma

Elbon-----Noble Foundation, Inc., Ardmore, Oklahoma

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

Excel-----Ring Around Products, Inc., Montgomery, Alabama

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

Gurley's-----Gurley Milling Co., Selma, North Carolina

NF-----Noble Foundation, Inc., Ardmore, Oklahoma

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

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

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

Wintergrazer 70---Pennington Grain and 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-----Coker's Pedigreed Seed Company, Hartsville, South Carolina

DeKalb-----DeKalb Ag. Research, Wichita, Kansas

Ga. 1123-----Foundation Seed Stocks Farm, Thorsby, Alabama  
Holley-----Department of Agronomy, Georgia Agricultural  
Experiment Station, Experiment, Georgia  
McNair-----McNair Seed Company, Laurinburg, North Carolina  
OASIS-----Department of Agronomy, Purdue University, Lafayette,  
Indiana  
Wakeland-----Foundation Seed Stocks Farm, Thorsby, Alabama





