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SMALL GRAIN VARIETY REPORT

AGRICULTURAL EXPERIMENT STATION / AUBURN UNIVERSITY
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auburn, alabama

1972 SMALL GRAIN VARIETY REPORT

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Oat, wheat, barley, rye, and triticale varieties were tested during the 1971-72 season by the Auburn University Agricultural Experiment Station at 13 locations in the State. The 1971-72 growing season was characterized by an unusually warm season until mid-January; however, on January 16, 1972, temperatures dropped rapidly to lows of 2, 10, and 19°F at Belle Mina, Auburn, and Fairhope, respectively. As a result of the earlier warm temperatures many varieties had begun to head when the rapid temperature drop occurred and severe cold damage resulted, especially on oat and triticale varieties. Diseases were accentuated by the warm fall temperatures. Although several diseases were damaging, leaf rust of wheat and crown rust of oats were unusually severe. The combination of plants weakened by disease and the rapid temperature drop in January resulted in low yields in many tests.

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.

Table 1 shows 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 by regions for the unclipped tests are given 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. Yields of triticale varieties tested at Belle Mina, Prattville, Auburn, and Brewton are presented in Tables 6, 7, 8, and 9, respectively. Varietal reactions to diseases are presented in Table 10. Sources of seed used in the tests are listed on the last two pages.

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.

Evaluations of disease resistance were made on all entries in the 1971-72 tests. Several diseases occur on 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

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to the extent that appreciable damage has occurred when conditions were favorable for disease occurrence and development. Disease data were compiled by Dr. Robert T. Gudauskas, Department of Botany and Microbiology.

SMALL GRAINS FOR FORAGE

Clipping tests were conducted to determine (1) fall and winter forage production of small grains, and (2) the effect of clipping during this period on grain yields. Data from other experiments show that fall applications of nitrogen are necessary for high forage yields but they usually do not increase grain yields. Therefore, the clipped plots received a fall application of nitrogen at planting or shortly thereafter, which the unclipped plots did not receive. These plots were clipped at intervals until late February or March 1 to simulate grazing, after which both clipped and unclipped plots were topdressed with a uniform application of nitrogen.

When fed to cattle, each pound of dry forage (consumed as pasturage) may be considered worth approximately 1 pound of grain. By converting the bushels of grain produced to pounds and adding it to the pounds of dry forage produced from clipped tests, it is evident that the greatest amount of feed was obtained from small grain that was clipped and then allowed to make grain, Table 1. Total production of feed (forage + forage equivalent of grain) does not differ greatly in the three regions of the State. Grain yields are generally higher and forage yields are lower in northern Alabama than in central and southern Alabama.

Location of the tests and staff members in charge are as follows:

NORTHERN ALABAMA

Sand Mountain Substation, Crossville - S. E. Gissendanner, 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 - E. L. Mayton, 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 - V. L. Brown, Superintendent
Experiment Field, Monroeville - E. L. Carden, Superintendent
Experiment Field, Brewton - E. L. Carden, Superintendent
Gulf Coast Substation, Fairhope - H. F. Yates, Superintendent
Wiregrass Substation, Headland - J. G. Starling, Superintendent

VARIETIES RECOMMENDED FOR FORAGE AND GRAIN

(Recommendations are based on yield and listed in order of 3-year average total feed production; for reaction to diseases, see Table 10)

NORTHERN ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>	<u>Barley</u>
Coker 66-22	Coker 65-20	Bonel	Colonial ^{1/2}
Carolee	Ga. 1123	McNair Vita Graze	Hanover ^{1/}
	Arthur	Explorer	
	Wakeland	Elbon	
	Blue Boy		

CENTRAL ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>	<u>Barley</u>
Coker 242	Coker 68-15	Wren's Abruzzi	Barsoy
Roanoke	Coker 65-20	McNair Vita Graze	McNair 601
Coker 67-22	Wakeland ^{2/}	Weser	Keowee
Fla. 501	Ga. 1123 ^{2/}	Explorer	Colonial ^{2/}
Carolee ^{2/}	Blue Boy ^{2/}		
	Coker 68-19 ^{2/}		

SOUTHERN ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>
Coker 67-22	Coker 68-15	Wren's Abruzzi
Fla. 501	Coker 65-20	Weser
Sumter 3 ^{2/}	Wakeland ^{2/}	ACCO 811
		McNair Vita Graze

^{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 yield and lodging and listed in order of 3-year average yield; for reaction to diseases, see Table 10)

NORTHERN ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>	<u>Barley</u>
Carolee	Ga. 1123	Bonel	Hanover
Coker 242 ^{2/}	Coker 65-20	Elbon	Dayton ^{2/}
	Arthur	McNair Vita Graze	Wade ^{2/}
	Blue Boy		McNair 601 ^{2/}

CENTRAL ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>	<u>Barley</u>
Carolee	Coker 68-15	McNair Vita Graze	Keowee
Coker 67-22	Blue Boy	Weser	Barsoy
Coker 242	Coker 65-20 ^{2/}	Explorer	
Sumter 3 ^{2/}	Coker 68-19 ^{2/}	Wren's Abruzzi	

SOUTHERN ALABAMA

<u>Oats</u>	<u>Wheat</u>	<u>Rye</u>
Fla. 501	Coker 68-15	Weser
Coker 242	Wakeland ^{2/}	Wren's Abruzzi
Coker 67-22 ^{2/}	Blue Boy ^{2/}	ACCO 811
		McNair Vita Graze

^{1/} Trial basis.

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

Table 1. FORAGE AND GRAIN YIELD OF SMALL GRAIN VARIETIES TESTED, 1968-72

Variety	Yield of clipped plots, average						Total feed, 1970-72 av.	
	Forage					Grain	Not clipped, grain only	Clipped, forage and grain
	1-yr. 1972	2-yr. 1971-72	3-yr. 1970-72	4-yr. 1969-72	5-yr. 1968-72	3-yr. 1970-72		
Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	
NORTHERN ALABAMA								
Number of tests	(3)	(6)	(9)	(12)	(16)	(9)	(9)	(9)
OATS								
Carolee	1,204	999	1,138	1,316	1,360	2,261	2,560	3,399
Coker 242	1,433	1,203	1,285	1,331	1,338	1,717	2,240	3,003
Coker 66-22	1,498	1,455	1,446	1,435	1,447	2,368	2,336	3,814
Coker 70-16	1,383	1,320						
BARLEY								
Colonial 2	855	1,183	1,400	1,324	1,319	1,968	1,728	3,368
Dayton	932	1,021	1,246	1,206	1,223	1,552	1,728	2,798
Wade	897	906	1,111	1,081	1,098	1,520	1,632	2,631
McNair 601	975	1,131	1,331	1,372		1,232	1,584	2,563
Hanover	1,061	1,216	1,424			1,856	2,016	3,280
Miller	1,082	1,091	1,195			1,472	1,536	2,667
Barsoy	977	944						
Keowee	935							
RYE								
Bonel	2,152	2,232	2,320	2,180	2,116	2,072	2,296	4,392
Elbon	2,244	2,193	2,334	2,284	2,117	1,848	2,184	4,142
Explorer	2,039	2,235	2,526	2,497	2,376	1,624	2,016	4,150
McNair Vita Graze	2,517	2,409	2,556	2,530		1,680	2,090	4,236
Wintergrazer 70	1,982	2,168						
WHEAT								
Blue Boy	1,282	1,578	1,714	1,808	1,802	1,780	2,280	3,494
Ga. 1123	1,601	1,577	1,516	1,665	1,632	2,100	2,520	3,616
Wakeland	1,502	1,606	1,694	1,782	1,767	1,840	2,400	3,534
Arthur	1,254	1,263	1,258	1,150		2,320	2,360	3,578
Coker 65-20	1,764	1,936	1,982	2,014		2,120	2,520	4,102
Coker 68-19	1,120	1,452	1,712			1,420		3,132
Coker 70-14	1,212	1,690						
McNair 2203	1,637	1,788						
Coker 68-15	1,620							
McNair 701	1,449							
TRITICALE								
Fas Gro 204	1,488							
Pathfinder	1,684							

Table 1 (Continued) FORAGE AND GRAIN YIELD OF SMALL GRAIN VARIETIES TESTED,
1968-72

Variety	Yield of clipped plots, average						Total feed, 1970-72 av.	
	Forage					Grain	Not clipped, grain only	Clipped, forage and grain
	1-yr. 1972	2-yr. 1971-72	3-yr. 1970-72	4-yr. 1969-72	5-yr. 1968-72	3-yr. 1970-72		
Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	
CENTRAL ALABAMA								
Number of tests	(4)	(7)	(10)	(15)	(20)	(9)	(11)	(10)
OATS								
Carolee	1,438	1,818	1,679	1,709	1,779	1,461	1,621	3,140
Coker 242	2,032	2,159	2,018	1,978	1,905	1,408	1,472	3,426
Fla. 501	1,909	1,958	1,811	1,866	1,834	1,482	1,504	3,293
Roanoke	2,056	2,245	1,953	1,931	1,927	1,408	1,397	3,361
Coker 67-22	2,176	2,008	1,816	1,855	1,855	1,536	1,536	3 352
Sumter 3	1,886	1,984	1,723	1,849		1,386	1,322	3,110
Coker 70-16	2,177	2,222						
BARLEY								
Colonial 2	1,101	1,823	1,838	1,897	1,869	1,216	1,136	3,054
Barsoy	1,489	1,998	1,839	1,845	1,869	1,600	1,376	3,439
Keowee	1,279	1,838	1,659	1,603		1,552	1,504	3,211
McNair 601	1,618	2,000	1,970			1,344	1,280	3,314
Miller	1,710							
RYE								
Weser	2,330	2,665	2,600	2,820	2,725	1,586	1,885	4,187
Explorer	2,381	2,715	2,739	2,814	2,737	1,400	1,885	4,139
Wren's Abruzzi	2,138	2,575	2,557	2,723	2,634	1,754	1,866	4,311
Vita Graze	2,420	2,805	2,734	2,792		1,549	2,016	4,283
ACCO 811	2,192	2,605						
Gurley's Grazer	2,375							
Wintergrazer 70	1,990							
WHEAT								
Blue Boy	2,220	2,603	2,373	2,432	2,379	1,280	1,480	3,653
Ga. 1123	2,075	2,394	2,283	2,218	2,186	1,440	1,380	3,723
Wakeland	2,322	2,673	2,548	2,552	2,452	1,360	1,500	3,908
Coker 68-15	2,497	2,774	2,528	2,487		1,720	1,980	4,248
Coker 68-19	1,616	2,194	2,167	2,284		1,140	1,320	3,307
Coker 65-20	2,333	2,723	2,663			1,460	1,440	4,123
McNair 2203	2,316	2,852						
Coker 70-14	1,899	2,449						
McNair 701	2,168							
Arthur	1,917							
TRITICALE								
Fas Gro 204	1,862							
Grazegrain 70	1,512							

Table 1 (Continued). FORAGE AND GRAIN YIELD OF SMALL GRAIN VARIETIES TESTED, 1968-72.

Variety	Yield of clipped plots, average						Total feed, 1970-72 av.	
	Forage					Grain 3-yr. 1970-72	Not Clipped	
	1-yr. 1972	2-yr. 1971-72	3-yr. 1970-72	4-yr. 1969-72	5-yr. 1968-72		clipped, forage grain only	and grain
Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	
SOUTHERN ALABAMA								
Number of tests	(5)	(10)	(15)	(19)	(23)	(11)	(11)	(15)
OATS								
Coker 242	1,292	1,904	1,745	1,709	1,713	1,408	1,557	3,153
Fla. 501	1,577	1,999	1,876	1,838	1,876	1,707	1,632	3,583
Sumter 3	1,418	2,073	2,029	1,976	1,985	1,259	1,024	3,288
Coker 67-22	1,562	1,995	1,984	1,998		1,653	1,429	3,638
Elan	1,379	1,788						
Coker 70-16	1,086							
BARLEY								
McNair 601	938	1,699	1,623			624	592	2,247
Keowee	1,003	1,464	1,388			592	480	1,980
Fla. 102	1,720	2,138	2,014			576	528	2,590
Fla. X65-202-13	1,547							
RYE								
Weser	1,553	2,365	2,519	2,632	2,748	1,213	1,344	3,733
Wren's Abruzzi	1,423	2,178	2,486	2,585	2,571	1,251	1,307	3,737
Vita Graze	1,568	2,340	2,545	2,623		1,083	1,213	3,627
ACCO 811	1,587	2,244	2,558	2,594		1,101	1,307	3,659
Penngrazer W	1,438	2,113						
Wintergrazer 70	1,459	2,107						
Gurley's Grazer	1,613							
WHEAT								
Blue Boy	1,046	1,753	1,722	1,789	1,823	920	1,060	2,642
Wakeland	1,252	1,896	1,914	1,917	2,011	1,200	1,260	3,114
Coker 65-20	1,272	2,199	2,068	2,061		1,080	980	3,148
Coker 68-15	1,467	2,091	1,927	1,942		1,340	1,560	3,267
McNair 2203	1,080	1,797						
Coker 70-14	1,014	1,797						
McNair 701	1,269							
TRITICALE								
Fas Gro 204	1,578							
Grazegrain 70	1,229							
Pathfinder	1,394							
Mark IV	1,616							
Fas Gro 209	1,491							

Table 2. GRAIN YIELD AND OTHER CHARACTERISTICS OF UNCLIPPED SMALL GRAIN VARIETIES TESTED, 1968-72

Variety	Regional average yield per acre					Other characteristics, 3-Year average		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	Lodging	Height	1/10 Headed
	1972	1971-72	1970-72	1969-72	1968-72	Pct.	In.	Date
	Bu.	Bu.	Bu.	Bu.	Bu.			
NORTHERN ALABAMA								
Number of tests (3)	(6)	(9)	(12)	(15)	(9)	(9)	(9)	
OATS								
Carolee	45	70	81	91	88	21	36	4/26
Coker 242	21	62	70	81	77	15	36	4/26
Coker 66-22	51	74	73	83	80	24	37	4/23
Coker 70-16	73	94						
BARLEY								
Colonial 2	16	33	36	41	42	17	29	4/16
Dayton	12	28	36	39	41	13	30	4/14
Wade	21	35	34	41	44	19	31	4/17
McNair 601	4	29	33	42		11	29	4/11
Hanover	17	34	42			9	28	4/15
Miller	11	23	33			0	29	4/13
Barsoy	22	30						
Keowee	24							
RYE								
Bonel	37	42	41	43	40	16	60	4/6
Elbon	31	37	39	42	38	19	57	4/4
Explorer	30	37	36	38	35	20	55	4/4
Vita Graze	30	36	37	39		15	56	4/5
Wintergrazer 70	39	41						
WHEAT								
Blue Boy	23	32	38	42	39	6	36	4/20
Ga. 1123	29	37	42	45	40	9	39	4/19
Wakeland	25	36	40	42	37	24	38	4/19
Arthur	32	35	39	43		5	35	4/19
Coker 65-20	32	38	42	46		15	40	4/19
Coker 68-19	15	30	33			1	28	4/15
Coker 70-14	21	31						
McNair 2203	26	38						
Coker 68-15	31							
McNair 701	22							
TRITICALE								
Fas Gro 204	12							
Pathfinder	17							

Table 2 (Continued) GRAIN YIELD AND OTHER CHARACTERISTICS OF UNCLIPPED SMALL GRAIN VARIETIES TESTED, 1968-72

Variety	Regional average yield per acre					Other characteristics, 3-Year average		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	Lodging	Height	1/10 Headed
	1972	1971-72	1970-72	1969-72	1968-72	Pct.	In.	Date
	Bu.	Bu.	Bu.	Bu.	Bu.			
CENTRAL ALABAMA								
Number of tests	(4)	(7)	(11)	(15)	(19)	(11)	(11)	(11)
OATS								
Carolee	29	49	51	59	63	21	37	4/18
Coker 242	26	41	46	52	56	14	41	4/19
Fla. 501	37	46	47	52	55	21	35	4/16
Roanoke	25	41	44	49	53	16	45	4/19
Coker 67-22	22	45	48	56		17	35	4/17
Sumter 3	18	40	41	50		26	38	4/18
Coker 70-16	27	61						
BARLEY								
Colonial 2	16	24	24	28	32	31	31	4/13
Barsoy	15	23	29	37	38	12	28	3/28
Keowee	17	31	31	39		12	31	4/8
McNair 601	18	23	27			24	33	4/6
Miller	11							
RYE								
Weser	40	34	34	35	33	47	55	3/24
Explorer	33	30	34	34	32	53	55	3/24
Wren's Abruzzi	32	31	33	35	34	54	55	3/23
Vita Graze	31	31	36	37		48	57	3/24
ACCO 811	34	32						
Gurley's Grazer	31							
Wintergrazer 70	37							
WHEAT								
Blue Boy	20	22	25	28	27	1	37	4/12
Ga. 1123	21	23	23	27	27	9	41	4/10
Wakeland	26	26	25	25	25	33	40	4/11
Coker 68-15	35	36	33	35		3	38	4/9
Coker 68-19	15	19	22	26		8	32	4/12
Coker 65-20	19	23	24			28	40	4/10
McNair 2203	20	22						
Coker 70-14	14	21						
McNair 701	22							
Arthur	33							
TRITICALE								
Fas Gro 204	8							
Grazegrain 70	5							

Table 2 (Continued). GRAIN YIELD AND OTHER CHARACTERISTICS OF UNCLIPPED SMALL GRAIN VARIETIES TESTED, 1968-72.

Variety	Regional average yield per acre					Other characteristics, 3-Year average		
	i-yr.	2-yr.	3-yr.	4-yr.	5-yr.	Lodging	Height 1/10	Headed
	1972	1971-72	1970-72	1969-72	1968-72	Pct.	In.	Date
	Bu.	Bu.	Bu.	Bu.	Bu.			
SOUTHERN ALABAMA								
Number of tests	(5)	(7)	(11)	(15)	(19)	(11)	(11)	(11)
OATS								
Coker 242	22	45	49	54	55	14	41	4/14
Fla. 501	23	51	51	56	58	16	37	4/8
Sumter 3	2	30	32	41	43	44	35	4/11
Coker 67-22	15	43	45	53		23	36	4/8
Elan	22	50						
Coker 70-16	8							
BARLEY								
McNair 601	5	19 ^{1/}				9	28	4/3
Keowee	3	15 ^{1/}				14	27	4/7
Fla. 102	5	17 ^{1/}				9	27	4/3
Fla. X65-202-13	6							
RYE								
Weser	25	22	24	26	25	22	52	3/14 ^{2/}
Wren's Abruzzi	21	21	23	26	26	24	53	3/15 ^{2/}
Vita Graze	17	19	22	25		22	53	2/15 ^{2/}
ACCO 811	21	20	23	26		22	53	3/15 ^{2/}
Penngrazer W	23	22						
Wintergrazer 70	23	22						
Gurley's Grazer	23							
WHEAT								
Blue Boy	8	18	18	25	24	7	35	4/6
Wakeland	13	20	21	25	25	18	36	4/5
Coker 65-20	8	14	16	20		19	37	4/2
Coker 68-15	16	26	26	31		1	36	4/7
McNair 2203	<u>3/</u>	20 ^{4/}						
Coker 70-14	7	19						
McNair 701	<u>3/</u>							
TRITICALE								
Fas Gro 204	6							
Grazegrain 70	8							
Pathfinder	10							
Mark IV	6							
Fas Gro 209	8							

^{1/} Data for 1970 and 1972. Does not include 1971 due to bird damage.

^{2/} 2 year data.

^{3/} Early varieties destroyed by birds.

^{4/} 1 year data, 1971 only.

Table 3. GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN VARIETIES TESTED, 1968-72

Variety	Regional average yield per acre					Other characteristics, 3-Year average		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	Lodging Pct.	Height In.	1/10 Headed Date
	1972 Bu.	1971-72 Bu.	1970-72 Bu.	1969-72 Bu.	1968-72 Bu.			
NORTHERN ALABAMA								
Number of tests (3)	(6)	(9)	(12)	(15)	(9)	(9)	(9)	
OATS								
Carolee	31	61	71	83	80	14	33	4/27
Coker 242	9	41	54	66	62	12	33	4/27
Coker 66-22	54	79	74	70	82	19	35	4/24
Coker 70-16	54	66						
BARLEY								
Colonial 2	18	38	41	46	47	21	29	4/19
Dayton	17	24	32	43	43	21	30	4/16
Wade	14	31	32	42	44	18	28	4/20
McNair 601	5	15	26	33		13	27	4/15
Hanover	16	30	39			13	27	4/17
Miller	5	20	31			1	28	4/16
Barsoy	19	34						
Keowee	20							
RYE								
Bonel	33	41	37	38	36	19	54	4/11
Elbon	27	34	33	35	32	25	53	4/10
Explorer	24	31	29	30	28	23	51	4/9
Vita Graze	24	31	30	34		18	54	4/10
Wintergrazer 70	38	39						
WHEAT								
Blue Boy	19	23	30	33	31	4	35	4/24
Ga. 1123	30	30	35	38	35	4	39	4/22
Wakeland	27	28	31	34	31	12	37	4/22
Arthur	29	33	39	42		8	34	4/20
Coker 65-20	30	30	35	38		8	37	4/22
Coker 68-19	7	22	23			0	23	4/22
Coker 70-14	13	27						
McNair 2203	24	32						
Coker 68-15	33							
McNair 701	21							
TRITICALE								
Fas Gro 204	7							
Pathfinder	16							

Table 3 (Continued) GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN VARIETIES TESTED, 1968-72

Variety	Regional average yield per acre					Other characteristics, 3-Year average		
	1-yr. 1972	2-yr. 1971-72	3-yr. 1970-72	4-yr. 1969-72	5-yr. 1968-72	Lodging Pct.	Height In.	1/10 Headed Date
	Bu.	Bu.	Bu.	Bu.	Bu.			
CENTRAL ALABAMA								
Number of tests	(4)	(6)	(9)	(13)	(17)	(9)	(9)	(9)
OATS								
Carolee	24	46	46	53	58	6	35	4/23
Coker 242	12	38	44	49	52	4	38	4/22
Fla. 501	18	40	46	48	53	6	32	4/18
Roanoke	26	44	44	48	52	3	45	4/24
Coker 67-22	17	42	48	50		4	33	4/21
Sumter 3	19	40	43	46		9	33	4/21
Coker 70-16	27	61						
BARLEY								
Colonial 2	10	25	25	32	35	18	28	4/13
Barsoy	14	26	33	39	40	1	26	4/1
Keowee	12	26	32	39		5	29	4/12
McNair 601	8	22	28			8	30	4/11
Miller	8							
RYE								
Weser	26	25	28	26	25	34	52	4/3
Explorer	22	24	25	24	23	41	52	4/3
Wren's Abruzzi	27	30	31	30	29	39	52	4/3
Vita Graze	21	23	28	26		35	51	4/3
ACCO 811	28	29						
Gurley's Grazer	24							
Wintergrazer 70	29							
WHEAT								
Blue Boy	11	18	21	21	21	1	34	4/16
Ga. 1123	18	23	24	24	25	2	37	4/15
Wakeland	19	22	23	22	22	2	38	4/15
Coker 68-15	23	30	29	29		4	34	4/14
Coker 68-19	8	15	19	19		0	29	4/18
Coker 65-20	13	20	24			0	36	4/16
McNair 2203	15	26						
Coker 70-14	9	17						
McNair 701	14							
Arthur	31							
TRITICALE								
Fas Gro 204	7							
Grazegrain 70	4							

Table 3 (Continued). GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN VARIETIES TESTED, 1968-72

Variety	Regional average yield per acre					Other characteristics		
	1-yr.	2-yr.	3-yr.	4-yr.	5-yr.	3-Year average		
	1972	1971-72	1970-72	1969-72	1968-72	Lodging	Height	1/10 Headed
	Bu.	Bu.	Bu.	Bu.	Bu.	Pct.	In.	Date
SOUTHERN ALABAMA								
Number of tests	(5)	(7)	(11)	(15)	(19)	(11)	(11)	(11)
OATS								
Coker 242	7	39	44	49	48	12	38	4/17
Fla. 501	16	51	53	57	58	7	34	4/11
Sumter 3	2	38	39	47	47	37	32	4/16
Coker 67-22	12	50	52	54		8	34	4/13
Elan	10	50						
Coker 70-16	5							
BARLEY								
McNair 601	4	20 ^{1/}				5	27	4/4
Keowee	3	19 ^{1/}				6	27	4/10
Fla. 102	10	18 ^{1/}				5	27	4/3
Fla. X65-202-13	14							
RYE								
Weser	28	25	22	22	23	25	51	3/24 ^{2/}
Wren's Abruzzi	25	25	22	23	24	26	52	3/23 ^{2/}
Vita Graze	22	21	19	21		23	53	3/23 ^{2/}
ACCO 811	25	21	20	20		24	53	3/23 ^{2/}
Penngrazer W	24	23						
Wintergrazer 70	24	23						
Gurley's Grazer	26							
WHEAT								
Blue Boy	5	15	15	19	20	3	33	4/10
Wakeland	12	22	20	21	21	5	37	4/9
Coker 65-20	8	18	18	21		9	35	4/7
Coker 68-15	10	21	22	26		1	32	4/7
McNair 2203	9	19						
Coker 70-14	4	13						
McNair 701	10							
TRITICALE								
Fas Gro 204	3							
Grazegrain 70	4							
Pathfinder	6							
Mark IV	3							
Fas Gro 209	3							

^{1/} Data for 1970 and 1972. Does not include 1971 due to bird damage.

^{2/} 2 year data.

Table 4. SMALL GRAIN VARIETIES FOR FORAGE - PRATTVILLE, 1971-72

Variety	Dry forage yield - Pounds per acre				Total	2-yr. Av.	3-yr. Av.
	Clipping date - 1971-72						
	12-8-71	1-24-72	3-16-72	4-12-72			
OATS							
Coker 70-16	1,628	593	807	1,122	4,150	6,553	-
Roanoke	1,518	572	982	1,037	4,109	6,004	5,642
Coker 242	1,643	606	709	894	3,852	5,509	5,142
Carolee	1,076	511	827	1,119	3,533	5,203	4,709
Sumter 3	1,810	376	274	725	3,186	5,022	4,579
Coker 67-22	2,020	363	654	868	3,905	5,158	4,940
Fla. 501	1,984	687	634	912	4,218	5,394	5,048
Century	1,501	484	686	1,026	3,696	5,118	-
BARLEY							
Keowee	415	328	754	948	2,445	4,591	4,714
McNair 601	1,222	450	837	757	3,266	4,763	4,812
Barsoy	1,066	349	677	694	2,786	4,373	4,201
Colonial 2	675	259	967	993	2,894	4,658	4,806
RYE							
Vita Graze	1,367	587	1,465	459	3,877	5,121	5,607
Explorer	1,337	639	2,078	212	4,266	5,400	5,826
Wintergrazer 70	1,194	414	2,657	550	4,816	-	-
Gurley's Grazer	1,504	608	1,777	346	4,235	-	-
Weser	1,248	631	1,873	564	4,316	5,292	5,331
Wren's Abruzzi	1,452	530	1,730	465	4,177	5,323	5,601
Wheeler	1,428	377	381	586	2,771	5,091	-
Penngrazer W	1,197	494	2,670	356	4,717	-	-
Gurley's Grazer	1,336	630	1,514	437	3,917	-	-
WHEAT							
Blue Boy	1,073	758	1,831	424	4,085	4,865	4,736
McNair 701	1,178	998	1,831	281	4,288	-	-
Wakeland	1,150	752	2,095	272	4,269	5,032	4,813
Coker 70-14	992	699	1,186	561	3,438	4,755	-
Coker 65-20	1,725	910	1,478	313	4,426	5,323	5,282
Coker 68-15	1,476	873	1,632	728	4,710	5,741	6,380
Ga. 1123	1,315	875	1,750	250	4,191	4,948	4,691
Coker 68-19	919	903	546	576	2,943	4,055	3,993
TRITICALE							
Fas Gro 204	1,556	417	343	763	3,079		
Grazegrain 70	953	975	682	778	3,388		
Mark IV	1,646	470	369	751	3,237		

Planted: 9-10-71

Table 5. SMALL GRAIN VARIETIES FOR FORAGE - TALLASSEE, 1971-72

Variety	Dry forage yield - Pounds per acre						Total	2-yr. Av.	3-yr. Av.
	11-12-71	12-27-72	2-22-72	3-14-72	4-4-72	5-1-72			
OATS									
Coker 242	836	1,157	49	50	524	-	2,615	2,818	2,991
Coker 70-16	842	824	412	270	1,829	-	4,178	5,890	-
Roanoke	465	932	275	218	1,649	-	3,539	5,844	4,985
Carolee	569	994	90	87	1,091	-	2,831	3,995	3,768
Sumter 3	656	1,110	94	120	1,209	-	3,189	3,511	3,211
Coker 67-22	766	1,155	9	33	909	-	2,871	2,924	2,925
Fla. 501	959	1,026	62	62	451	-	2,559	3,041	3,076
Century	767	1,014	149	83	670	-	2,683	3,557	-
BARLEY									
Keowee	222	915	227	311	1,575	-	3,250	5,205	4,462
McNair 601	583	1,010	93	65	759	-	2,510	4,139	3,775
Barsoy	515	977	203	339	1,430	-	3,464	4,794	4,156
Colonial 2	348	949	158	198	1,380	-	3,032	5,620	4,892
RYE									
Vita Graze	744	1,086	701	1,176	948	1,122	5,777	6,141	5,606
Explorer	450	1,240	759	939	1,368	1,111	5,867	6,345	5,762
Wintergrazer 70	595	920	669	1,271	1,482	1,636	6,571	-	-
Weser	600	962	680	1,084	1,300	1,209	5,836	6,225	5,303
Wren's Abruzzi	676	1,212	535	1,061	1,204	1,341	6,029	6,549	5,955
Wheeler	620	1,001	614	698	1,740	1,981	6,654	5,199	-
WHEAT									
Blue Boy	574	763	465	539	997	810	4,149	5,382	4,572
McNair 701	840	900	518	474	533	581	3,846	-	-
Wakeland	579	1,048	391	654	967	891	4,530	5,340	4,503
Coker 70-14	697	874	234	331	760	843	3,740	4,612	-
Coker 65-20	816	1,170	555	669	793	584	4,588	5,845	4,969
Coker 68-15	809	926	626	625	1,313	1,221	5,519	6,524	5,309
Ga. 1123	814	1,123	370	621	911	603	4,442	5,249	4,394
Coker 68-19	501	843	203	240	354	510	2,650	3,416	3,140
Dekalb HG13	842	586	248	247	1,091	1,861	4,874	-	-
Dekalb 9290	814	544	279	530	1,407	1,324	4,899	-	-
Dekalb HG6	911	826	729	739	1,316	1,299	5,820	-	-
Dekalb 9090	466	759	424	505	1,094	2,279	5,528	-	-
Dekalb 9190	812	833	505	783	1,437	1,626	5,996	-	-
TRITICALE									
Fas Gro 204	588	1,116	-	-	257	569	2,529	-	-

Table 6. PERFORMANCE OF TRITICALE VARIETIES - Belle Mina, 1971-72

Variety	Dry forage yield - Pounds per acre		
	Clipping date		
	11-10-71	11-30-71	Total
Fas Gro 418	1,619	631	2,250
Fas Gro 419	1,086	887	1,973
Fas Gro 204	1,660	786	2,446
Fas Gro 203	1,861	544	2,405
Fas Gro 209	1,735	685	2,420
Pathfinder	1,750	894	2,644
Grazegrain 70	1,339	814	2,153
Mark IV	1,428	494	1,921
Coker 65-20 (wheat)	2,158	844	3,002

Planted: 9-13-71

Grain not harvested due to severe winter kill.

Table 7. PERFORMANCE OF TRITICALE VARIETIES - Prattville, 1971-72

Variety	Clipped				Unclipped			
	Yield per acre	Lodging	Height	1/10 Headed	Yield per acre	Lodging	Height	1/10 Headed
	Bu.	Pct.	In.	Date	Bu.	Pct.	In.	Date
Fas Gro 418	2	0	29	4/9	3	0	33	4/8
Fas Gro 419	1	0	28	4/8	3	0	30	4/6
Fas Gro 204	3	0	30	4/14	6	0	32	4/10
Fas Gro 203	3	0	30	4/11	4	0	33	4/9
Fas Gro 209	4	0	31	4/18	9	0	33	4/12
Pathfinder	8	0	33	4/17	15	0	37	4/13
Grazegrain 70	4	0	29	4/12	13	0	34	4/7
Mark IV	3	0	29	4/12	3	0	33	4/14
Coker 65-20 (wheat)	16	0	29	4/9	20	0	31	3/27

Variety	Dry forage yield - Pounds per acre			
	Clipping date			
	12-10-71	1-26-72	2-28-72	Total
Fas Gro 418	2,191	281	146	2,618
Fas Gro 419	1,814	217	119	2,150
Fas Gro 204	2,049	351	192	2,593
Fas Gro 203	2,220	320	197	2,737
Fas Gro 209	1,780	455	179	2,415
Pathfinder	1,813	596	165	2,574
Grazegrain 70	1,076	791	178	2,045
Mark IV	2,076	316	139	2,530
Coker 65-20 (wheat)	1,968	936	334	3,238

Planted: 9-10-71

Table 8. PERFORMANCE OF TRITICALE VARIETIES - Auburn, 1971-72

Variety	Clipped				Unclipped			
	Yield per acre	Lodging	Height	1/10 Headed	Yield per acre	Lodging	Height	1/10 Headed
	Bu.	Pct.	In.	Date	Bu.	Pct.	In.	Date
Fas Gro 418	26	0	35	3/29	20	0	36	3/29
Fas Gro 514	20	0	37	3/28	23	0	42	4/1
Fas Gro 518	26	0	41	4/6	20	0	42	3/30
Fas Gro 419	15	0	35	3/29	13	20	36	3/29
Fas Gro 205	15	0	34	4/11	25	0	36	4/7
Fas Gro 203	15	2	36	3/30	17	3	35	3/31
Fas Gro 204	18	0	34	4/3	14	8	35	4/2
Coker 65-20 (wheat)	25	0	33	4/1	24	3	36	3/28

Variety	Dry forage yield - Pounds per acre		
	Clipping date		
	12-15-71	1-18-72	Total
Fas Gro 418	207	960	1,167
Fas Gro 514	334	1,238	1,572
Fas Gro 518	269	1,311	1,579
Fas Gro 419	264	1,137	1,401
Fas Gro 205	220	1,344	1,565
Fas Gro 203	112	1,219	1,331
Fas Gro 204	204	957	1,161
Coker 65-20 (wheat)	174	1,431	1,605

Planted: 10-19-71

Table 9. PERFORMANCE OF TRITICALE VARIETIES - Brewton, 1971-72

Variety	Dry forage yield per acre Clipping date 1-10-72	Clipped			Unclipped		
		Grain yield	Lodging	Height	Grain yield	Lodging	Height
		per acre	Pct.	In.	per acre	Pct.	In.
	Lbs.	Bu.	Pct.	In.	Bu.	Pct.	In.
Fas Gro 418	1,151	0	3	26	6	8	24
Fas Gro 419	764	0	3	23	2	5	25
Fas Gro 204	997	1	3	28	5	5	28
Fas Gro 203	1,347	0	3	29	3	5	29
Fas Gro 209	846	2	3	30	7	6	31
Pathfinder	824	2	3	32	9	6	32
Grazegrain 70	433	4	8	25	5	11	25
Mark IV	1,100	1	8	28	4	3	29
Coker 68-15 (wheat)	404	3	13	22	3	5	23

Table 10. REACTION OF OAT VARIETIES TO SOME DISEASES IN ALABAMA

Variety	Crown rust	Helminthosporium leaf blotch	Septoria leaf blotch	Loose smut
NORTHERN ALABAMA				
Carolee	S	S	S	R
Coker 242	R	S	R	R
Coker 66-22	R	S	R	R
Coker 70-16	R	S	R	R
CENTRAL ALABAMA				
Carolee	S	S	S	R
Coker 67-22	R	S	R	R
Coker 70-16 ^{1/}	S	R	R	R
Coker 242	R	S	R	R
Fla. 501	R	R	R	R
Roanoke	S	S	R	R
Sumter 3	R	S	R	R
SOUTHERN ALABAMA				
Carolee	S	S	S	R
Coker 67-22	S	R	R	R
Coker 70-16 ^{1/}	S	R	R	R
Coker 242	S	S	R	R
Elan	S	R	R	R
Fla. 501	S	S	R	R
Sumter 3	S	S	S	R

^{1/} One-year data

Table 10 (Continued) REACTION OF WHEAT VARIETIES TO SOME DISEASES IN ALABAMA

Variety	Powdery mildew	Leaf rust	Septoria leaf blotch	Loose smut
NORTHERN ALABAMA				
Arthur	R	R	R	R
Blue Boy	R	S	S	R
Coker 65-20	R	S	S	R
Coker 68-15	R	R	S	R
Coker 68-19	R	R	R	R
Coker 70-14 ^{1/}	R	S	S	R
Ga. 1123	S	S	S	R
McNair 701 ^{1/}	R	R	R	R
McNair 2203 ^{1/}	R	R	R	R
Wakeland	S	R	S	S
CENTRAL ALABAMA				
Arthur ^{1/}	R	R	R	R
Blue Boy	S	S	R	R
Coker 65-20	S	S	S	R
Coker 68-15	S	R	R	R
Coker 68-19	R	S	S	R
Coker 70-14	R	S	S	R
Ga. 1123	S	S	S	R
McNair 701 ^{1/}	R	R	R	R
McNair 2203	S	S	R	R
Wakeland	S	S	S	S
SOUTHERN ALABAMA				
Blue Boy	S	S	S	R
Coker 65-20	R	S	S	R
Coker 68-15	S	R	R	R
Coker 70-14	R	S	S	R
McNair 701 ^{1/}	R	S	S	R
McNair 2203	S	S	S	R
Wakeland	S	S	S	S

^{1/} One-year data

Table 10 (Continued) REACTION OF BARLEY, RYE, AND TRITICALE VARIETIES TO SOME DISEASES IN ALABAMA

Variety	Powdery mildew	Spot blotch	Net blotch	Leaf rust	Scald	Septoria leaf blotch
BARLEY						
Barsoy	R	S	S	S	R	
Colonial 2	S	S	S	S	S	
Dayton	S	S	S	S	S	
Fla. 102	R	S	R	S	R	
Fla. X65-202-13 ^{1/}	R	S	R	R	R	
Hanover	R	S	S	R	R	
Keowee	R	S	R	S	R	
McNair 601	R	S	S	R	R	
Miller	R	S	R	R	R	
Wade	R	S	S	R	R	
RYE						
ACCO 811	R			S	R	
Bonel	R			S	R	
Elbon	S			S	R	
Explorer	S			S	R	
Gurley's Grazer ^{1/}	R			R	R	
Penngrazer W	R			S	R	
Vita Graze	R			S	R	
Weser	R			S	R	
Wintergrazer 70	R			S	R	
Wren's Abruzzi	S			S	R	
TRITICALE^{1/}						
Fas Gro 204	R			R		R
Fas Gro 209	R			R		R
Grazegrain 70	R			S		R
Mark IV	R			S		R
Pathfinder	R			S		R

^{1/} One-year data

SOURCES OF SEED TESTED

OATS

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

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

Coker 242-----Coker Pedigreed Seed Company, Hartsville, South Carolina

Coker 66-22-----Coker Pedigreed Seed Company, Hartsville, South Carolina

Coker 67-22-----Coker Pedigreed Seed Company, Hartsville, South Carolina

Coker 70-16-----Coker Pedigreed Seed Company, Hartsville, South Carolina

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

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

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

Sumter 3-----Department of Agronomy, Clemson University, Clemson, South
Carolina

BARLEY

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

Colonial 2-----North Carolina Foundation Seed Producers, Inc., Raleigh,
North Carolina

Dayton-----Department of Agronomy, Ohio State University, Columbus, Ohio

Florida 102-----North Florida Experiment Station, Quincy, Florida

Fla. X65-202-13-----North Florida Experiment Station, Quincy, Florida

Hanover-----Department of Agronomy, Virginia Polytechnic Institute,
Blacksburg, Virginia

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

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

Miller-----Department of Agronomy, University of Georgia, Athens,
Georgia

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

RYE

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

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

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

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

GI 73-----Gurley Milling Co., Selma, North Carolina

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

Penngrazer W-----Pennington Grain and Seed, Inc., Madison, Georgia

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

Weser-----Foundation Seeds, Inc., Athens, Georgia

Wheeler-----Michigan State University, East Lansing, Michigan

Wintergrazer 70-----Pennington Grain and Seed, Inc., Madison, Georgia

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

SOURCES OF SEED TESTED (Continued)

WHEAT

Arthur-----Department of Agronomy, Purdue University, Lafayette,
Indiana
Blue Boy-----North Carolina Foundation Seed Producers, Inc., Raleigh,
North Carolina
Coker 65-20-----Coker Pedigreed Seed Company, Hartsville, South Carolina
Coker 68-15-----Coker Pedigreed Seed Company, Hartsville, South Carolina
Coker 68-19-----Coker Pedigreed Seed Company, Hartsville, South Carolina
Coker 70-14-----Coker Pedigreed Seed Company, Hartsville, South Carolina
Dekalb 9090-----Dekalb Ag Research, Wichita, Kansas
Dekalb 9190-----Dekalb Ag Research, Wichita, Kansas
Dekalb 9290-----Dekalb Ag Research, Wichita, Kansas
Dekalb HG6-----Dekalb Ag Research, Wichita, Kansas
Dekalb HG13-----Dekalb Ag Research, Wichita, Kansas
Ga. 1123-----Foundation Seed Stocks Farm, Thorsby, Alabama
McNair 701-----McNair Seed Company, Laurinburg, North Carolina
McNair 2203-----McNair Seed Company, Laurinburg, North Carolina
Wakeland-----Foundation Seed Stocks Farm, Thorsby, Alabama

TRITICALE

Fas Gro 203-----Farm Management Services, Inc., Wichita, Kansas
Fas Gro 204-----Farm Management Services, Inc., Wichita, Kansas
Fas Gro 205-----Farm Management Services, Inc., Wichita, Kansas
Fas Gro 209-----Farm Management Services, Inc., Wichita, Kansas
Fas Gro 418-----Farm Management Services, Inc., Wichita, Kansas
Fas Gro 419-----Farm Management Services, Inc., Wichita, Kansas
Fas Gro 518-----Farm Management Services, Inc., Wichita, Kansas
Fas Gro 519-----Farm Management Services, Inc., Wichita, Kansas
Grazegrain 70-----International Grain, Inc., Dallas, Texas
Mark IV-----DOT, Inc., Plainview, Texas
Pathfinder-----DOT, Inc., Plainview, Texas