



Agronomy and Soils
Departmental Series No. 205
Alabama Agricultural Experiment Station
James E. Marion, Director
Auburn University
Auburn University, Alabama
August 1997



**THE 1997
ALABAMA
PERFORMANCE
COMPARISON OF
SMALL GRAIN
VARIETIES
FOR FORAGE**

TABLE OF CONTENTS

	Page
Introduction	1
Procedure	1
Data Explanation	1
Discussion	1
Acknowledgments	1
Small Grain Dry Matter Yields by Season	2
Tennessee Valley Substation, Belle Mina, 1997	2
Two-Year Averages 1996-97	3
Three-Year Averages 1995-97	4
Sand Mountain Substation, Crossville, 1997	5
Two-Year Averages 1996-97	6
Three-Year Averages 1995-97	7
Upper Coastal Plain Substation, Winfield, 1997	8
Two-Year Averages 1996-97	9
Three-Year Averages 1995-97	10
Black Belt Substation, Marion Junction, 1997	11
Two-Year Averages 1996-97	12
Three-Year Averages 1995-97	13
Prattville Field, Prattville, 1997	14
Two-Year Averages 1996-97	15
Three-Year Averages 1995-97	16
E. V. Smith Research Center, Plant Breeding Unit, Tallassee, 1997	17
Two-Year Averages 1996-97	18
Three-Year Averages 1995-97	19
Gulf Coast Substation, Fairhope, 1997	20
Two-Year Averages 1996-97	21
Three-Year Averages 1995-97	22
Monroeville Field, Monroeville, 1997	23
Two-Year Averages 1996-97	24
Three-Year Averages 1995-97	25
Wiregrass Substation, Headland, 1997	26
Two-Year Averages 1996-97	27
Three-Year Averages 1995-97	28
Lower Coastal Plain Substation, Camden, 1997	29
Two-Year Averages 1996-97	30
Three-Year Averages 1995-97	31
Seed Sources	32

Information contained in this publication is available to all, regardless of race, gender, or national origin.

The 1997 Alabama Performance Comparison of Small Grain Varieties For Forage

KATHRYN M. GLASS AND DAVID I. BRANSBY

INTRODUCTION

The large number of commercially available varieties of wheat, oats, rye, barley, and triticale makes it difficult for growers to select varieties most suited for forage production in their particular area of the State. Many of the small grain species and varieties differ in their capability to produce early fall and winter forage for livestock production. Making the proper selection requires up-to-date, unbiased, reliable information and varietal forage yield by season.

Entries in each experiment are determined by the companies or institutes which control each variety, or line, not by experiment station personnel. Data from tests conducted at 10 locations were used to compile this report. These locations represent the varied growing conditions around the State for the past 3 years.

PROCEDURE

The experimental design for the tests was a split plot design with species as the main plot and varieties as subplots. Plots were 5 feet by 20 feet with rows spaced 7 inches apart. A cone drill was used to plant all tests. Each variety was replicated three times in each test.

The tests are normally planted in late September to early October. In 1996, all test locations were planted in early to mid October. In 1995, most locations were planted in late September to mid October. Marion Junction was planted in late October 1995. The tests were fertilized at planting with 100 pounds N per acre and clipped with a flail-type mower each time they reached 6 inches in height. A sample was weighed green from each plot, then dried and reweighed. The percent dry matter figure from these weights was used to calculate forage dry matter per acre. The tests were topdressed in February with 60 pounds N per acre and clipping was continued until no regrowth occurred in the spring.

DATA EXPLANATION

Dry matter forage is recorded for seasonal and total yields by locations. The four seasonal periods are: autumn-forage produced through December; winter-January and February production; early spring-March and early April production; and late spring-production after April 20.

DISCUSSION

Growing conditions and variety forage performance often vary among locations and years. Multiple-year averages are given here to use as a better indicator for performance comparison. In the 1994-95 growing season, wet, cloudy conditions in the north reduced fall growth. A mild winter allowed good forage production in the spring. In the 1995-96 growing season, below normal temperatures in winter and early spring resulted in very little growth at most locations until late spring. In the 1996-97 growing season, all locations had wet conditions but normal growth occurred on most varieties. Wet conditions also delayed clipping at some locations and may have reduced yields of some varieties.

ACKNOWLEDGMENTS

Appreciation is expressed to Mien-Huei Tzeng, Research Data Analysis, for the computation and summarization of data in this report. Appreciation is also expressed to the following supervisory personnel of the outlying units whose support is gratefully acknowledged: Chet Norris, Jr. and Ellis Burgess, Tennessee Valley Substation; Tony Dawkins and Marvin Ruf, Sand Mountain Substation; Randall Rawls, Upper Coastal Plain Substation; Jimmy Holliman and Jim Harris, Black Belt Substation; Don Moore, Prattville Experiment Field; Jim Bannon and Stevan Nightengale, E.V. Smith Research Center; Randy Akridge, Monroeville Experiment Field; Ronnie McDaniel and Malcolm Pegues, Gulf Coast Substation; Joe Little and Paul Rose, Lower Coastal Plain Substation; and Larry Wells and Brian Gamble, Wiregrass Substation.

Glass is a Research Assistant and Bransby is a Professor in the Auburn University Department of Agronomy and Soils.

Table 1. Seasonal Dry Matter Yield of Wheat, Oats, Barley, Rye, and Triticale Varieties Cut as Forage at Tennessee Valley Substation, Belle Mina, Alabama, 1997

Brand-variety	Seasonal Forage Yield/Acre				
	Autumn	Winter	Early Spring	Late Spring	Total
	Lb.	Lb.	Lb.	Lb.	Lb.
Wheat					
Madison	-	1,383	2,238	464	4,085
GA Dozier	-	1,173	2,154	494	3,821
Wakefield	-	1,172	1,762	448	3,382
Jackson	-	973	1,964	397	3,334
GA 871339	-	868	1,684	380	2,932
Florida 304	-	704	1,567	252	2,523
<i>Test Mean</i>	-	1,045	1,895	406	3,346
<i>C.V. (%)</i>	-	24	13	23	15
<i>L.S.D (.10)</i>	-	382	375	136	743
Oats					
LA 85495-1-B2-AB2-B	-	422	1,577	693	2,693
Harrison	-	438	1,299	836	2,572
GA 875C44-ES	-	589	1,657	304	2,550
Chapman	-	455	1,543	397	2,395
LA 85604-AB21-B-B	-	290	1,450	580	2,320
Ga Mitchell	-	283	1,137	472	1,893
Citation	-	208	830	499	1,537
Florida 502	-	152	482	378	1,012
<i>Test Mean</i>	-	355	1,247	520	2,121
<i>C.V. (%)</i>	-	29	9	22	11
<i>L.S.D (.10)</i>	-	147	169	166	336
Barley					
Starling	-	673	2,710	782	4,165
Pamunkey	-	697	2,368	836	3,902
Nomini	-	755	2,292	679	3,725
Callao	-	570	1,934	754	3,259
<i>Test Mean</i>	-	674	2,326	763	3,763
<i>C.V. (%)</i>	-	30	12	20	11
<i>L.S.D (.10)</i>	-	318	450	237	684
Rye					
Maton	-	1,985	3,223	1,029	6,238
Oklon	-	2,615	2,521	796	5,931
Bates	-	2,162	2,591	764	5,517
Bonel	-	1,518	3,006	966	5,490
NF 94	-	2,036	2,692	740	5,469
Wren's 96	-	1,655	1,718	583	3,957
Wren's Abruzzi AL	-	1,282	1,330	505	3,118
Florida 401	-	-	387	532	919
<i>Test Mean</i>	-	1,893	2,184	739	4,580
<i>C.V. (%)</i>	-	16	9	10	6
<i>L.S.D (.10)</i>	-	434	293	108	420
Triticale					
Trical 2700	-	793	1,650	986	3,429
Sunland	-	246	435	365	1,046
<i>Test Mean</i>	-	519	1,043	676	2,237
<i>C.V. (%)</i>	-	-	13	19	11
<i>L.S.D (.10)</i>	-	-	333	308	589

Table 2. Two-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Barley, Rye, and Triticale Varieties Cut as Forage at Tennessee Valley Substation, Belle Mina, Alabama, 1996-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
Madison	-	992	1,719	1,551	4,262
GA Dozier	-	906	1,601	1,319	3,826
Wakefield	-	915	1,386	1,415	3,716
Jackson	-	889	1,463	1,205	3,558
Florida 304	-	694	1,056	1,100	2,850
Oats					
Harrison	-	427	1,003	2,034	3,464
Chapman	-	406	1,216	1,462	3,083
Citation	-	331	770	1,735	2,836
Ga Mitchell	-	328	821	1,297	2,445
Florida 502	-	245	241	854	1,339
Barley					
Starling	-	511	2,047	2,005	4,563
Pamunkey	-	631	1,792	1,922	4,345
Nomini	-	661	1,737	1,676	4,073
Callao	-	477	1,555	1,865	3,897
Rye					
Maton	-	1,344	2,703	1,886	5,934
Oklon	-	1,980	2,029	1,661	5,671
Bonel	-	1,420	2,382	1,689	5,491
Wren's 96	-	1,501	1,150	1,535	4,186
Wren's Abruzzi AL	-	1,095	956	1,541	3,592
Florida 401	-	389	298	1,385	2,073
Triticale					
Trical 2700	-	764	1,371	2,291	4,427
Sunland	-	523	290	793	1,606

Table 3. Three-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Barley, Rye, and Triticale Varieties Cut as Forage at Tennessee Valley Substation, Belle Mina, Alabama, 1995-97

Brand-variety	Seasonal Forage Yield/Acre				
	Autumn	Winter	Early Spring	Late Spring	Total
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>
Wheat					
Madison	246	661	1,552	1,137	3,596
GA Dozier	344	604	1,528	946	3,421
Wakefield	316	610	1,379	1,065	3,371
Jackson	292	593	1,384	906	3,175
Florida 304	382	463	1,234	797	2,876
Oats					
Chapman	363	270	1,005	1,015	2,653
Citation	476	221	656	1,203	2,556
Florida 502	403	163	256	569	1,392
Barley					
Pamunkey	442	421	1,841	1,481	4,186
Starling	332	341	1,918	1,477	4,068
Nomini	358	440	1,652	1,311	3,761
Rye					
Oklon	477	1,320	2,201	1,496	5,494
Maton	444	896	2,533	1,577	5,450
Bonel	464	947	2,248	1,470	5,129
Wren's 96	475	1,001	1,644	1,332	4,451
Wren's Abruzzi AL	446	730	1,399	1,308	3,883
Florida 401	608	260	451	1,131	2,449
Triticale					
Trical 2700	456	510	1,448	1,857	4,271
Sunland	649	349	267	529	1,793

Table 4. Seasonal Dry Matter Yield of Wheat, Oats, Barley, Rye, and Triticale Varieties Cut as Forage at Sand Mountain Substation, Crossville, Alabama, 1997

Brand-variety	Seasonal Forage Yield/Acre				
	Autumn	Winter	Early Spring	Late Spring	Total
	Lb.	Lb.	Lb.	Lb.	Lb.
Wheat					
Madison	-	-	2,114	442	2,556
GA 871339	-	-	2,005	370	2,375
GA Dozier	-	-	1,947	351	2,297
Jackson	-	-	1,826	370	2,196
Florida 304	-	-	1,905	194	2,100
Wakefield	-	-	1,765	231	1,996
Test Mean	-	-	1,927	326	2,253
C.V. (%)	-	-	15	33	15
L.S.D (.10)	-	-	418	166	488
Oats					
Florida 502	-	-	1,317	400	1,717
Harrison	-	-	1,312	241	1,553
Citation	-	-	1,157	234	1,391
Ga Mitchell	-	-	1,035	308	1,342
LA 85495-1-B2-AB2-B	-	-	1,036	259	1,295
GA 875C44-ES	-	-	860	272	1,132
LA 85604-AB21-B-B	-	-	1,104	-	1,104
Chapman	-	-	1,026	-	1,026
Test Mean	-	-	1,106	285	1,320
C.V. (%)	-	-	22	29	25
L.S.D (.10)	-	-	349	160	465
Barley					
Callao	-	-	1,983	892	2,875
Pamunkey	-	-	2,016	769	2,785
Nomini	-	-	2,112	618	2,730
Starling	-	-	2,134	378	2,512
Test Mean	-	-	2,061	664	2,725
C.V. (%)	-	-	15	14	12
L.S.D (.10)	-	-	476	153	536
Rye					
NF 94	-	-	2,669	853	3,522
Bonel	-	-	2,490	1,026	3,516
Bates	-	-	2,661	771	3,432
Maton	-	-	2,507	838	3,344
Oklon	-	-	2,356	848	3,204
Wren's 96	-	-	2,293	748	3,041
Wren's Abruzzi AL	-	-	1,071	521	1,591
Florida 401	-	-	426	506	933
Test Mean	-	-	2,059	764	2,823
C.V. (%)	-	-	14	18	12
L.S.D (.10)	-	-	419	195	468
Triticale					
Trical 2700	-	-	1,318	431	1,749
Sunland	-	-	685	423	1,108
Test Mean	-	-	1,001	427	1,428
C.V. (%)	-	-	19	18	13
L.S.D (.10)	-	-	456	185	431

Table 5. Two-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Barley, Rye, and Triticale Varieties Cut as Forage at Sand Mountain Substation, Crossville, Alabama, 1996-97

Brand-variety	Seasonal Forage Yield/Acre				
	Autumn	Winter	Early Spring	Late Spring	Total
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>
Wheat					
Madison	-	-	1,323	544	1,867
GA Dozier	-	-	1,248	518	1,766
Jackson	-	-	1,213	512	1,725
Wakefield	-	-	1,128	527	1,655
Florida 304	-	-	1,028	360	1,388
Oats					
Harrison	-	-	782	831	1,614
Chapman	-	-	574	631	1,205
Citation	-	-	714	413	1,127
Florida 502	-	-	658	200	858
Ga Mitchell	-	-	517	154	671
Barley					
Callao	-	-	1,337	809	2,146
Pamunkey	-	-	1,344	784	2,127
Nomini	-	-	1,368	649	2,017
Starling	-	-	1,431	475	1,906
Rye					
Maton	-	-	2,108	835	2,943
Bonel	-	182	1,750	943	2,875
Oklon	-	257	1,683	825	2,765
Wren's 96	-	245	1,439	821	2,505
Wren's Abruzzi AL	-	76	703	567	1,346
Florida 401	-	134	280	657	1,071
Triticale					
Trical 2700	-	-	1,009	668	1,677
Sunland	-	87	406	436	928

Table 6. Three-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Barley, Rye, and Triticale Varieties Cut as Forage at Sand Mountain Substation, Crossville, Alabama, 1995-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
Jackson	-	-	1,534	431	1,965
GA Dozier	-	-	1,383	421	1,804
Florida 304	-	-	1,494	307	1,800
Madison	-	-	1,322	443	1,765
Wakefield	-	-	1,219	426	1,644
Oats					
Chapman	-	-	761	421	1,182
Citation	-	-	803	275	1,079
Florida 502	-	-	725	133	858
Barley					
Pamunkey	-	-	1,551	597	2,149
Nomini	-	-	1,409	510	1,919
Starling	-	-	1,514	373	1,887
Rye					
Oklon	-	648	1,706	601	2,954
Maton	-	119	2,089	625	2,833
Bonel	-	264	1,784	683	2,731
Wren's 96	-	610	1,453	598	2,661
Wren's Abruzzi AL	-	643	797	429	1,869
Florida 401	-	800	380	491	1,670
Triticale					
Trical 2700	-	89	1,348	558	1,995
Sunland	-	681	520	290	1,492

Table 7. Seasonal Dry Matter Yield of Wheat, Oats, Barley, Rye, and Triticale Varieties Cut as Forage at Upper Coastal Plain Substation, Winfield, Alabama, 1997

Brand-variety	Seasonal Forage Yield/Acre					Total
	Autumn	Winter	Early Spring	Late Spring		
	Lb.	Lb.	Lb.	Lb.	Lb.	
Wheat						
GA Dozier	-	242	2,245	-		2,488
Wakefield	-	586	1,873	-		2,459
Madison	-	540	1,914	-		2,454
GA 871339	-	286	1,955	-		2,242
Jackson	-	358	1,813	-		2,171
Florida 304	-	317	1,815	-		2,132
<i>Test Mean</i>	-	388	1,936	-		2,324
<i>C.V. (%)</i>	-	36	20	-		21
<i>L.S.D (.10)</i>	-	209	585	-		707
Oats						
GA 875C44-ES	-	95	1,316	-		1,412
LA 85495-1-B2-AB2-B	-	-	1,299	-		1,299
LA 85604-AB21-B-B	-	-	1,213	-		1,213
Citation	-	-	1,045	-		1,045
Chapman	-	-	977	-		977
Florida 502	-	-	-	-	Winterkilled	
Ga Mitchell	-	-	-	-	Winterkilled	
Harrison	-	-	-	-	Winterkilled	
<i>Test Mean</i>	-	95	1,170	-		1,189
<i>C.V. (%)</i>	-	-	21	-		19
<i>L.S.D (.10)</i>	-	-	381	-		363
Barley						
Callao	-	262	2,247	-		2,509
Nomini	-	109	2,260	-		2,369
Pamunkey	-	69	2,113	-		2,182
Starling	-	104	1,724	-		1,828
<i>Test Mean</i>	-	136	2,086	-		2,222
<i>C.V. (%)</i>	-	24	14	-		13
<i>L.S.D (.10)</i>	-	57	475	-		467
Rye						
Oklon	-	724	2,519	-		3,243
Maton	-	604	2,627	-		3,230
Bates	-	920	2,221	-		3,141
Bonel	-	624	2,319	-		2,944
NF 94	-	792	1,757	-		2,550
Wren's 96	-	305	1,904	-		2,210
Wren's Abruzzi AL	-	366	1,329	-		1,694
Florida 401	-	80	538	-		618
<i>Test Mean</i>	-	552	1,902	-		2,454
<i>C.V. (%)</i>	-	37	24	-		19
<i>L.S.D (.10)</i>	-	296	673	-		661
Triticale						
Trical 2700	-	209	1,035	-		1,243
Sunland	-	-	-	-	Winterkilled	
<i>Test Mean</i>	-	209	1,035	-		1,243
<i>C.V. (%)</i>	-	-	-	-		-
<i>L.S.D (.10)</i>	-	-	-	-		-

Table 8. Two-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Barley, Rye, and Triticale Varieties Cut as Forage at Upper Coastal Plain Substation, Winfield, Alabama, 1996-97

Brand-variety	Seasonal Forage Yield/Acre				
	Autumn	Winter	Early Spring	Late Spring	Total
	Lb.	Lb.	Lb.	Lb.	Lb.
Wheat					
GA Dozier	-	383	1,826	-	2,209
Jackson	-	498	1,466	-	1,964
Wakefield	-	502	1,442	-	1,943
Madison	-	438	1,458	-	1,896
Florida 304	-	310	1,245	-	1,555
Oats					
Chapman	-	122	1,122	-	1,244
Citation	-	-	893	-	893
Harrison	-	255	518	-	773
Ga Mitchell	-	-	392	-	392
Florida 502	-	-	-	-	Winterkilled
Barley					
Callao	-	259	1,790	-	2,049
Nomini	-	194	1,812	-	2,006
Pamunkey	-	111	1,707	-	1,818
Starling	-	257	1,546	-	1,803
Rye					
Maton	-	681	3,921	-	4,603
Oklon	-	1,175	2,854	-	4,029
Bonel	-	1,029	2,749	-	3,778
Wren's 96	-	1,136	1,332	-	2,468
Wren's Abruzzi AL	-	672	1,187	-	1,860
Florida 401	-	215	612	-	827
Triticale					
Trical 2700	-	241	1,588	-	1,829
Sunland	-	-	309	-	309

Table 9. Three-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Barley, Rye, and Triticale Varieties Cut as Forage at Upper Coastal Plain Substation, Winfield, Alabama, 1995-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
GA Dozier	-	350	1,616	-	1,966
Wakefield	-	485	1,391	-	1,876
Madison	-	394	1,470	-	1,864
Jackson	-	416	1,398	-	1,814
Florida 304	-	377	1,410	-	1,787
Oats					
Chapman	-	223	1,282	-	1,505
Citation	-	202	1,036	-	1,238
Florida 502	-	198	410	-	608
Barley					
Nomini	-	264	1,749	-	2,012
Pamunkey	-	185	1,715	-	1,899
Starling	-	281	1,472	-	1,752
Rye					
Oklon	-	1,105	2,611	-	3,716
Maton	-	554	3,124	-	3,678
Bonel	-	808	2,454	-	3,262
Wren's 96	-	1,033	1,528	-	2,561
Wren's Abruzzi AL	-	727	1,238	-	1,964
Florida 401	-	709	779	-	1,488
Triticale					
Trical 2700	-	299	1,501	-	1,800
Sunland	-	542	580	-	1,121

Table 10. Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Black Belt Substation, Marion Junction, Alabama, 1997

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	Lb.	Lb.	Lb.	Lb.	
Wheat					
Madison	439	-	1,688	-	2,127
Jackson	530	-	1,513	-	2,043
GA 871339	474	-	1,487	-	1,960
Florida 304	497	-	1,458	-	1,955
Wakefield	557	-	1,360	-	1,917
GA Dozier	476	-	1,301	-	1,778
Test Mean	496	-	1,468	-	1,963
C.V. (%)	28	-	24	-	9
L.S.D (.10)	206	-	511	-	247
Oats					
Harrison	537	-	1,491	-	2,029
LA 85495-1-B2-AB2-B	412	-	1,528	-	1,940
Chapman	552	-	1,356	-	1,908
Citation	462	-	1,279	-	1,741
GA 875C44-ES	337	-	1,380	-	1,717
LA 85604-AB21-B-B	279	-	1,383	-	1,662
Ga Mitchell	686	-	620	-	1,306
Florida 502	522	-	763	-	1,284
Test Mean	473	-	1,225	-	1,698
C.V. (%)	19	-	10	-	5
L.S.D (.10)	129	-	173	-	121
Rye					
Wren's Abruzzi AL	560	-	1,562	-	2,122
Gurley Grazer 2000	656	-	1,332	-	1,989
Bates	675	-	1,308	-	1,983
Maton	541	-	1,434	-	1,975
Wren's 96	634	-	1,248	-	1,881
NF 94	613	-	1,193	-	1,806
Oklon	759	-	1,028	-	1,787
Bonel	619	-	925	-	1,544
Florida 401	675	-	839	-	1,515
Test Mean	637	-	1,208	-	1,845
C.V. (%)	22	-	13	-	12
L.S.D (.10)	197	-	230	-	314
Triticale					
Trical 2700	618	-	872	-	1,490
Sunland	780	-	708	-	1,488
Test Mean	699	-	790	-	1,489
C.V. (%)	10	-	6	-	7
L.S.D (.10)	166	-	120	-	260

Table 11. Two-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Black Belt Substation, Marion Junction, Alabama, 1996-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
Jackson	265	69	1,669	123	2,126
Madison	220	74	1,579	195	2,067
Wakefield	279	61	1,352	264	1,956
Florida 304	248	125	1,309	201	1,883
GA Dozier	238	53	1,399	107	1,797
Oats					
Harrison	269	41	904	801	2,015
Chapman	276	26	1,116	464	1,883
Citation	231	36	916	568	1,752
Ga Mitchell	343	23	511	561	1,438
Florida 502	261	-	381	-	642
Rye					
Maton	271	78	1,674	102	2,125
Gurley Grazer 2000	328	78	1,565	147	2,118
Wren's Abruzzi AL	280	137	1,270	241	1,929
Wren's 96	317	180	1,166	144	1,807
Florida 401	338	198	733	466	1,734
Oklon	379	120	1,096	109	1,704
Bonel	309	138	1,155	98	1,700
Triticale					
Sunland	390	168	535	626	1,720
Trical 2700	309	90	1,159	106	1,665

Table 12. Three-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Black Belt Substation, Marion Junction, Alabama, 1995-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
Jackson	494	46	1,587	251	2,378
Madison	467	49	1,534	280	2,330
Wakefield	495	41	1,459	323	2,318
Florida 304	530	83	1,421	232	2,267
GA Dozier	575	35	1,451	205	2,267
Oats					
Chapman	615	17	1,149	500	2,281
Citation	635	24	999	617	2,275
Florida 502	570	-	889	192	1,651
Rye					
Wren's Abruzzi AL	501	92	1,499	285	2,377
Maton	550	52	1,526	191	2,319
Gurley Grazer 2000	579	52	1,444	217	2,291
Wren's 96	535	120	1,266	201	2,122
Oklon	657	80	1,210	167	2,114
Florida 401	593	132	874	485	2,084
Bonel	545	92	1,164	198	1,999
Triticale					
Sunland	836	112	709	605	2,263
Trical 2700	590	60	1,221	178	2,050

Table 13. Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Prattville Field, Prattville, Alabama, 1997

Brand-variety	Seasonal Forage Yield/Acre				
	Autumn	Winter	Early Spring	Late Spring	Total
	Lb.	Lb.	Lb.	Lb.	Lb.
Wheat					
Wakefield	-	2,706	1,839	457	5,001
Jackson	-	2,577	1,618	539	4,735
GA Dozier	-	2,814	1,500	388	4,702
Florida 304	-	2,690	1,321	642	4,653
GA 871339	-	1,979	1,782	618	4,379
Madison	-	1,910	1,794	323	4,027
Test Mean	-	2,446	1,642	495	4,583
C.V. (%)	-	25	13	5	16
L.S.D (.10)	-	896	327	40	1,079
Oats					
Chapman	-	2,486	1,961	-	4,447
Harrison	-	2,264	1,772	-	4,036
GA 875C44-ES	-	2,099	1,783	-	3,882
LA 85495-1-B2-AB2-B	-	1,864	1,958	-	3,822
Citation	-	2,218	1,581	-	3,799
Ga Mitchell	-	1,974	1,406	-	3,380
LA 85604-AB21-B-B	-	1,772	1,571	-	3,342
Florida 502	-	1,864	1,204	-	3,068
Test Mean	-	2,068	1,655	-	3,722
C.V. (%)	-	13	23	-	12
L.S.D (.10)	-	393	549	-	619
Rye					
Bonel	-	3,089	1,824	-	4,913
Bates	-	3,164	1,713	-	4,877
Maton	-	2,999	1,866	-	4,864
NF 94	-	2,876	1,985	-	4,862
Oklon	-	2,799	1,016	-	3,814
Gurley Grazer 2000	-	2,447	1,328	-	3,775
Wren's 96	-	2,630	984	-	3,614
Wren's Abruzzi AL	-	2,567	658	-	3,226
Florida 401	-	2,007	437	-	2,444
Test Mean	-	2,731	1,312	-	4,043
C.V. (%)	-	16	34	-	17
L.S.D (.10)	-	610	631	-	961
Triticale					
Trical 2700	-	2,338	817	-	3,155
Sunland	-	2,100	289	-	2,388
Test Mean	-	2,219	553	-	2,772
C.V. (%)	-	16	38	-	16
L.S.D (.10)	-	828	506	-	1,063

Table 14. Two-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Prattville Field, Prattville, Alabama, 1996-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
GA Dozier	-	2,348	952	194	3,494
Jackson	-	2,156	1,014	270	3,440
Wakefield	-	2,091	1,017	228	3,336
Florida 304	-	2,310	661	321	3,292
Madison	-	1,845	1,041	162	3,047
Oats					
Chapman	-	1,882	981	-	2,863
Harrison	-	1,625	1,025	-	2,650
Citation	-	1,723	791	-	2,514
Ga Mitchell	-	1,570	703	-	2,273
Florida 502	-	1,305	602	-	1,907
Rye					
Bonel	-	3,035	1,416	-	4,451
Maton	-	2,637	1,750	-	4,387
Oklon	-	2,822	1,090	-	3,912
Gurley Grazer 2000	-	2,272	1,427	-	3,698
Wren's 96	-	2,640	655	-	3,295
Wren's Abruzzi AL	-	2,222	443	-	2,665
Florida 401	-	1,845	377	-	2,222
Triticale					
Trical 2700	-	1,892	408	-	2,300
Sunland	-	1,592	144	-	1,737

Table 15. Three-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Prattville Field, Prattville, Alabama, 1995-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
GA Dozier	569	2,022	1,222	395	4,209
Jackson	469	1,865	1,278	480	4,092
Wakefield	452	1,857	1,195	461	3,965
Florida 304	499	1,970	916	449	3,835
Madison	407	1,646	1,222	426	3,700
Oats					
Chapman	543	1,556	1,164	290	3,553
Citation	483	1,463	1,092	337	3,375
Florida 502	563	1,257	796	326	2,942
Rye					
Maton	613	2,057	1,898	320	4,890
Bonel	563	2,374	1,592	331	4,860
Oklon	636	2,281	1,305	264	4,486
Gurley Grazer 2000	567	1,843	1,548	280	4,238
Wren's 96	624	2,190	990	273	4,078
Wren's Abruzzi AL	452	2,165	675	298	3,591
Florida 401	520	1,895	498	341	3,255
Triticale					
Trical 2700	439	1,760	742	387	3,328
Sunland	551	1,588	455	199	2,792

Table 16. Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Plant Breeding Unit, Tallassee, Alabama. 1997

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	Lb.	Lb.	Lb.	Lb.	
Wheat					
GA 871339	331	1,515	1,597	-	3,443
Jackson	173	1,479	1,742	-	3,394
Madison	142	1,213	1,799	-	3,154
Florida 304	252	1,494	1,384	-	3,129
Wakefield	189	1,282	1,589	-	3,060
GA Dozier	274	1,172	1,600	-	3,045
Test Mean	227	1,359	1,619	-	3,204
C.V. (%)	32	18	10	-	10
L.S.D (.10)	107	367	234	-	494
Oats					
Citation	128	1,091	1,160	-	2,379
LA 85495-1-B2-AB2-B	79	1,050	1,200	-	2,330
Ga Mitchell	125	1,088	1,041	-	2,254
Harrison	99	918	1,236	-	2,253
Chapman	56	1,003	1,169	-	2,229
GA 875C44-ES	60	829	1,054	-	1,943
Florida 502	139	1,200	573	-	1,911
LA 85604-AB21-B-B	67	657	1,117	-	1,841
Test Mean	94	979	1,069	-	2,142
C.V. (%)	42	15	7	-	8
L.S.D (.10)	56	214	107	-	232
Rye					
Bates	981	1,785	1,320	-	4,085
NF 94	737	1,619	1,249	-	3,605
Wren's 96	611	1,900	1,080	-	3,590
Bonel	593	1,579	1,410	-	3,582
Maton	587	1,481	1,432	-	3,500
Gurley Grazer 2000	689	1,591	1,201	-	3,481
Oklon	675	1,607	1,069	-	3,351
Wren's Abruzzi AL	518	1,818	853	-	3,189
Florida 401	681	1,711	736	-	3,127
Test Mean	675	1,677	1,150	-	3,501
C.V. (%)	18	6	11	-	6
L.S.D (.10)	172	140	173	-	314
Triticale					
Trical 2700	356	1,668	1,339	-	3,363
Sunland	577	1,305	354	-	2,237
Test Mean	467	1,486	847	-	2,800
C.V. (%)	11	12	2	-	9
L.S.D (.10)	128	424	47	-	590

Table 17. Two-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Plant Breeding Unit, Tallassee, Alabama, 1996-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
Jackson	86	1,301	1,345	1,095	3,827
Wakefield	95	1,190	1,039	1,484	3,808
Madison	71	1,139	1,160	1,199	3,568
GA Dozier	137	1,057	1,247	1,118	3,560
Florida 304	126	1,382	799	996	3,303
Oats					
Harrison	49	1,164	862	861	2,937
Citation	64	1,209	726	665	2,664
Chapman	28	1,047	920	657	2,652
Ga Mitchell	62	1,063	740	605	2,470
Florida 502	70	1,027	340	-	1,436
Rye					
Maton	294	1,855	1,698	1,410	5,256
Gurley Grazer 2000	345	1,817	1,365	1,531	5,057
Bonel	297	2,085	1,275	1,228	4,885
Oklon	337	2,141	1,037	1,279	4,795
Wren's 96	306	2,302	791	1,317	4,716
Wren's Abruzzi AL	259	2,095	555	1,251	4,161
Florida 401	340	1,846	439	1,178	3,803
Triticale					
Trical 2700	178	1,496	1,146	1,214	4,034
Sunland	289	1,318	177	-	1,784

Table 18. Three-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Plant Breeding Unit, Tallassee, Alabama, 1995-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
Jackson	465	932	1,317	911	3,625
Wakefield	444	953	1,033	1,191	3,622
GA Dozier	527	780	1,309	992	3,608
Madison	480	844	1,078	1,030	3,432
Florida 304	512	1,061	832	834	3,238
Oats					
Citation	396	907	726	653	2,682
Chapman	278	808	841	631	2,558
Florida 502	327	885	451	175	1,839
Rye					
Maton	694	1,390	1,769	1,330	5,184
Gurley Grazer 2000	625	1,373	1,551	1,365	4,914
Wren's 96	790	1,917	936	1,206	4,849
Bonel	646	1,632	1,400	1,162	4,840
Oklon	729	1,737	1,124	1,151	4,741
Wren's Abruzzi AL	641	1,904	630	1,142	4,318
Florida 401	673	1,693	436	1,079	3,881
Triticale					
Trical 2700	413	1,167	1,136	1,093	3,809
Sunland	690	1,156	283	203	2,332

Table 19. Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Gulf Coast Substation, Fairhope, Alabama, 1997

Brand-variety	Seasonal Forage Yield/Acre					Total
	Autumn	Winter	Early Spring	Late Spring		
	Lb.	Lb.	Lb.	Lb.	Lb.	
Wheat						
GA Dozier	1,277	1,714	2,365	-	5,356	
GA 871339	1,266	1,568	2,254	-	5,087	
Florida 304	1,310	1,818	1,902	-	5,030	
Madison	1,300	1,334	2,003	-	4,637	
Jackson	1,008	1,426	2,127	-	4,561	
Wakefield	993	1,309	1,984	-	4,286	
Test Mean	1,192	1,528	2,106	-	4,826	
C.V. (%)	28	14	6	-	8	
L.S.D (.10)	489	313	175	-	582	
Oats						
LA 85495-1-B2-AB2-B	1,224	2,506	2,685	-	6,414	
Harrison	1,412	1,963	2,345	-	5,720	
GA 875C44-ES	1,174	2,181	2,318	-	5,673	
LA 85604-AB21-B-B	442	2,115	3,081	-	5,638	
Chapman	1,015	2,161	2,411	-	5,588	
Ga Mitchell	1,645	1,739	2,182	-	5,566	
Florida 502	1,541	1,834	2,009	-	5,384	
Citation	1,128	1,678	2,257	-	5,063	
Test Mean	1,198	2,022	2,411	-	5,631	
C.V. (%)	34	19	9	-	12	
L.S.D (.10)	579	565	328	-	954	
Rye						
Oklon	2,717	2,123	1,934	-	6,774	
GI 87	1,903	2,210	2,248	-	6,361	
Maton	1,477	1,706	2,688	-	5,871	
Bonel	1,706	1,805	2,354	-	5,865	
Wren's 96	2,403	1,460	1,997	-	5,859	
Bates	1,660	1,873	2,193	-	5,727	
NF 94	1,416	1,835	2,408	-	5,659	
Wren's Abruzzi AL	1,638	1,741	1,614	-	4,993	
Florida 401	1,906	622	1,358	-	3,885	
Test Mean	1,870	1,708	2,088	-	5,666	
C.V. (%)	30	28	13	-	15	
L.S.D (.10)	812	692	385	-	1,223	
Triticale						
Trical 2700	1,375	1,914	2,520	-	5,809	
Sunland	1,394	1,571	1,822	-	4,787	
Test Mean	1,385	1,742	2,171	-	5,298	
C.V. (%)	12	13	19	-	8	
L.S.D (.10)	397	546	983	-	1,073	

Table 20. Two-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Gulf Coast Substation, Fairhope, Alabama, 1996-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
GA Dozier	993	1,323	2,815	-	5,131
Florida 304	1,014	1,429	2,373	-	4,816
Madison	933	1,114	2,670	-	4,717
Jackson	811	1,130	2,576	-	4,518
Wakefield	811	1,164	2,422	-	4,397
Oats					
Harrison	1,189	1,408	2,580	-	5,176
Citation	1,093	1,122	2,759	-	4,974
Chapman	956	1,456	2,532	-	4,944
Ga Mitchell	1,347	1,155	2,334	-	4,836
Florida 502	1,302	1,264	1,706	-	4,272
Rye					
Oklon	1,830	1,319	2,354	-	5,503
GI 87	1,419	1,396	2,562	-	5,376
Maton	1,192	1,096	2,944	-	5,232
Bonel	1,376	1,177	2,540	-	5,094
Wren's 96	1,836	1,056	1,933	-	4,825
Wren's Abruzzi AL	1,314	1,338	1,543	-	4,195
Florida 401	1,563	454	1,171	-	3,188
Triticale					
Trical 2700	1,197	1,391	2,201	-	4,789
Sunland	1,200	1,133	1,282	-	3,615

Table 21. Three-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Gulf Coast Substation, Fairhope, Alabama, 1995-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
GA Dozier	1,717	1,310	2,941	-	5,968
Florida 304	1,593	1,420	2,441	-	5,454
Madison	1,604	1,063	2,730	-	5,397
Jackson	1,267	1,136	2,791	-	5,194
Wakefield	1,345	1,267	2,549	-	5,161
Oats					
Chapman	1,568	1,284	2,526	-	5,378
Citation	1,521	978	2,624	-	5,124
Florida 502	1,568	1,192	1,961	-	4,721
Rye					
Oklon	2,297	1,302	2,567	-	6,165
Maton	1,829	1,188	3,073	-	6,090
GI 87	1,800	1,346	2,730	-	5,877
Bonel	1,861	1,159	2,618	-	5,638
Wren's 96	2,218	1,110	2,172	-	5,500
Wren's Abruzzi AL	1,663	1,318	1,856	-	4,838
Florida 401	1,639	447	1,512	-	3,598
Triticale					
Trical 2700	1,427	1,393	2,432	-	5,252
Sunland	1,759	949	1,401	-	4,109

Table 22. Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Monroeville Field, Monroeville, Alabama, 1997

Brand-variety	Seasonal Forage Yield/Acre				
	Autumn	Winter	Early Spring	Late Spring	Total
	Lb.	Lb.	Lb.	Lb.	Lb.
Wheat					
Florida 304	611	1,829	2,304	-	4,743
Madison	449	1,805	2,378	-	4,632
Jackson	576	1,975	1,894	-	4,445
Wakefield	679	1,788	1,922	-	4,389
GA 871339	795	1,707	1,658	-	4,160
GA Dozier	683	1,694	1,552	-	3,928
Test Mean	632	1,800	1,951	-	4,383
C.V. (%)	12	8	7	-	3
L.S.D (.10)	112	219	189	-	189
Oats					
Chapman	367	1,627	1,881	-	3,876
LA 85495-1-B2-AB2-B	317	1,406	1,691	-	3,413
GA 875C44-ES	318	1,516	1,579	-	3,413
LA 85604-AB21-B-B	277	1,330	1,766	-	3,372
Harrison	488	1,409	1,342	-	3,239
Citation	511	1,293	1,138	-	2,942
Ga Mitchell	506	1,357	955	-	2,818
Florida 502	315	1,151	729	-	2,195
Test Mean	387	1,386	1,385	-	3,159
C.V. (%)	20	9	33	-	17
L.S.D (.10)	113	188	652	-	782
Rye					
Maton	1,117	1,675	2,001	-	4,793
Bonel	1,143	1,780	1,838	-	4,761
NF 94	1,251	1,901	1,519	-	4,671
Oklon	1,185	1,686	1,602	-	4,473
GI 87	1,076	1,622	1,763	-	4,461
Bates	1,189	1,546	1,713	-	4,447
Wren's 96	1,113	1,581	1,521	-	4,215
Wren's Abruzzi AL	1,029	1,434	1,619	-	4,081
Florida 401	914	759	555	-	2,228
Test Mean	1,113	1,554	1,570	-	4,237
C.V. (%)	12	11	16	-	8
L.S.D (.10)	188	249	352	-	484
Triticale					
Trical 2700	795	1,659	1,830	-	4,284
Sunland	874	973	224	-	2,070
Test Mean	834	1,316	1,027	-	3,177
C.V. (%)	20	15	9	-	9
L.S.D (.10)	397	474	219	-	693

Table 23. Two-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Monroeville Field, Monroeville, Alabama, 1996-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
Jackson	553	1,654	2,436	-	4,643
Florida 304	541	1,643	2,181	-	4,366
Wakefield	562	1,583	2,066	-	4,212
GA Dozier	579	1,376	2,181	-	4,137
Madison	351	1,507	2,272	-	4,130
Oats					
Chapman	275	1,325	1,731	-	3,332
Harrison	409	1,130	1,635	-	3,174
Citation	517	1,027	1,454	-	2,998
Ga Mitchell	424	1,059	1,339	-	2,821
Florida 502	274	746	637	-	1,656
Rye					
Maton	1,058	1,429	2,612	-	5,099
Wren's 96	1,112	2,076	1,543	-	4,730
Bonel	1,175	1,545	1,998	-	4,717
Oklon	1,069	1,484	1,770	-	4,323
GI 87	921	1,359	1,820	-	4,101
Wren's Abruzzi AL	939	1,534	1,283	-	3,757
Florida 401	884	629	681	-	2,194
Triticale					
Trical 2700	860	1,421	1,996	-	4,277
Sunland	1,065	684	449	-	2,198

Table 24. Three-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Monroeville Field, Monroeville, Alabama, 1995-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
Jackson	1,025	1,358	1,976	-	4,359
Florida 304	1,044	1,323	1,890	-	4,257
Madison	853	1,234	2,095	-	4,182
GA Dozier	1,085	1,191	1,807	-	4,082
Wakefield	956	1,323	1,779	-	4,057
Oats					
Chapman	956	1,080	1,461	-	3,497
Citation	1,129	919	1,382	-	3,430
Florida 502	907	745	753	-	2,405
Rye					
Wren's 96	1,571	1,622	1,692	-	4,885
Maton	1,420	1,135	2,187	-	4,742
Bonel	1,530	1,269	1,842	-	4,642
Oklon	1,528	1,216	1,766	-	4,511
Wren's Abruzzi AL	1,407	1,333	1,619	-	4,358
GI 87	1,338	1,153	1,726	-	4,217
Florida 401	1,222	647	931	-	2,800
Triticale					
Trical 2700	1,327	1,224	1,796	-	4,346
Sunland	1,483	640	521	-	2,645

Table 25. Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Wiregrass Substation, Headland, Alabama, 1997

Brand-variety	Seasonal Forage Yield/Acre				
	Autumn	Winter	Early Spring	Late Spring	Total
	Lb.	Lb.	Lb.	Lb.	Lb.
Wheat					
GA Dozier	1,156	2,744	3,467	-	7,367
Wakefield	1,012	2,351	3,270	-	6,633
Florida 304	745	2,655	2,765	-	6,165
GA 871339	888	2,197	3,019	-	6,103
Madison	874	1,974	2,410	-	5,257
Jackson	623	1,578	3,054	-	5,255
Test Mean	883	2,250	2,997	-	6,130
C.V. (%)	19	25	20	-	17
L.S.D (.10)	243	827	907	-	1,520
Oats					
Citation	1,143	3,102	3,193	-	7,438
Florida 502	491	3,308	3,364	-	7,164
LA 85604-AB21-B-B	329	2,332	4,391	-	7,052
Ga Mitchell	659	3,745	2,439	-	6,842
Harrison	762	3,086	2,801	-	6,649
GA 875C44-ES	411	2,721	3,515	-	6,647
Chapman	528	3,201	2,764	-	6,493
LA 85495-1-B2-AB2-B	592	2,316	3,490	-	6,398
Test Mean	614	2,977	3,245	-	6,835
C.V. (%)	20	20	31	-	18
L.S.D (.10)	179	877	1,467	-	1,751
Rye					
Wren's 96	1,026	4,285	3,028	-	8,340
Maton	747	2,646	4,344	-	7,737
Oklon	866	3,640	3,095	-	7,600
Wren's Abruzzi AL	1,092	4,091	2,084	-	7,267
Florida 401	1,494	3,541	2,201	-	7,236
Bates	806	2,902	3,135	-	6,844
Bonel	760	2,793	2,831	-	6,383
NF 94	858	2,371	3,109	-	6,337
GI 87	713	2,762	2,792	-	6,268
Test Mean	929	3,226	2,958	-	7,112
C.V. (%)	23	19	25	-	14
L.S.D (.10)	304	868	1,033	-	1,406
Triticale					
Sunland	1,161	3,888	2,101	-	7,149
Trical 2700	929	2,795	2,637	-	6,360
Test Mean	1,045	3,341	2,369	-	6,755
C.V. (%)	17	9	13	-	10
L.S.D (.10)	435	715	743	-	1,646

Table 26. Two-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Wiregrass Substation, Headland, Alabama, 1996-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
Wakefield	506	2,374	2,771	-	5,651
GA Dozier	578	2,259	2,777	-	5,614
Florida 304	373	2,564	2,362	-	5,298
Jackson	311	1,710	2,361	-	4,383
Madison	437	1,815	1,951	-	4,203
Oats					
Citation	572	2,580	2,539	-	5,691
Ga Mitchell	329	2,965	2,181	-	5,476
Harrison	381	2,480	2,340	-	5,201
Florida 502	246	2,583	2,280	-	5,108
Chapman	264	2,614	2,210	-	5,087
Rye					
Wren's 96	513	4,513	2,627	-	7,654
Oklon	433	3,546	3,182	-	7,161
Wren's Abruzzi AL	546	4,515	1,753	-	6,814
Bonel	380	2,993	3,122	-	6,494
Maton	374	2,303	3,637	-	6,314
Florida 401	747	3,703	1,845	-	6,294
GI 87	357	2,999	2,866	-	6,222
Triticale					
Sunland	580	3,488	1,807	-	5,875
Trical 2700	464	2,875	2,418	-	5,757

Table 27. Three-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Wiregrass Substation, Headland, Alabama, 1995-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
GA Dozier	859	2,285	2,795	-	5,939
Florida 304	693	2,573	2,372	-	5,638
Wakefield	697	2,278	2,408	-	5,382
Jackson	476	1,774	2,183	-	4,433
Madison	543	1,870	1,847	-	4,261
Oats					
Citation	1,085	2,505	2,399	-	5,989
Chapman	860	2,794	2,215	-	5,868
Florida 502	888	2,739	2,175	-	5,802
Rye					
Wren's 96	1,050	4,086	2,517	-	7,653
Wren's Abruzzi AL	1,048	4,735	1,858	-	7,641
Oklon	933	3,596	3,019	-	7,548
Florida 401	1,416	4,078	1,726	-	7,219
Maton	809	2,721	3,559	-	7,089
Bonel	752	3,069	3,197	-	7,018
GI 87	807	3,334	2,815	-	6,956
Triticale					
Sunland	970	3,787	1,784	-	6,541
Trical 2700	674	2,785	2,282	-	5,741

Table 28. Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Lower Coastal Plain Substation, Camden, Alabama, 1997

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	Lb.	Lb.	Lb.	Lb.	
Wheat					
GA 871339	-	1,072	1,718	-	2,790
Florida 304	-	1,048	1,126	-	2,174
Madison	-	773	1,371	-	2,143
Jackson	-	783	1,332	-	2,115
GA Dozier	-	756	1,321	-	2,077
Wakefield	-	835	1,098	-	1,933
Test Mean	-	878	1,328	-	2,206
C.V. (%)	-	17	11	-	12
L.S.D (.10)	-	222	211	-	378
Oats					
LA 85604-AB21-B-B	-	786	2,161	-	2,948
Citation	-	939	1,895	-	2,834
Chapman	-	843	1,936	-	2,780
LA 85495-1-B2-AB2-B	-	861	1,858	-	2,719
Harrison	-	985	1,702	-	2,687
Florida 502	-	1,050	1,584	-	2,634
GA 875C44-ES	-	636	1,997	-	2,633
Ga Mitchell	-	939	1,629	-	2,569
Test Mean	-	880	1,845	-	2,725
C.V. (%)	-	18	6	-	8
L.S.D (.10)	-	230	152	-	311
Rye					
Wren's 96	-	1,241	1,500	-	2,741
Maton	-	492	1,962	-	2,454
Bonel	-	581	1,780	-	2,362
Wren's Abruzzi AL	-	1,167	1,132	-	2,300
NF 94	-	667	1,632	-	2,299
Florida 401	-	1,644	643	-	2,287
Oklon	-	776	1,503	-	2,279
Bates	-	745	1,528	-	2,273
GI 87	-	824	1,180	-	2,005
Test Mean	-	904	1,429	-	2,333
C.V. (%)	-	16	8	-	9
L.S.D (.10)	-	209	156	-	306
Triticale					
Sunland	-	1,576	570	-	2,146
Trical 2700	-	1,102	856	-	1,958
Test Mean	-	1,339	713	-	2,052
C.V. (%)	-	7	11	-	5
L.S.D (.10)	-	215	180	-	267

Table 29. Two-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Lower Coastal Plain Substation, Camden, Alabama, 1996-97

Brand-variety	Seasonal Forage Yield/Acre				Total <i>Lb.</i>
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	
Wheat					
Wakefield	-	1,318	1,198	480	2,997
Madison	-	1,199	1,276	458	2,934
Jackson	-	1,188	1,423	314	2,925
GA Dozier	-	930	1,444	415	2,788
Florida 304	-	1,449	964	361	2,774
Oats					
Citation	-	1,167	1,582	436	3,184
Chapman	-	1,154	1,353	565	3,073
Harrison	-	1,018	1,475	472	2,965
Ga Mitchell	-	990	1,173	558	2,721
Florida 502	-	1,026	871	808	2,705
Rye					
Wren's 96	-	1,681	3,069	422	5,172
Bonel	-	1,266	1,674	277	3,217
Maton	-	907	1,923	329	3,159
GI 87	-	1,469	1,388	177	3,034
Oklon	-	1,199	1,468	316	2,983
Wren's Abruzzi AL	-	1,563	899	463	2,925
Florida 401	-	1,710	549	559	2,817
Triticale					
Trical 2700	-	1,309	942	513	2,764
Sunland	-	1,430	408	819	2,657

Table 30. Three-Year Average Seasonal Dry Matter Yield of Wheat, Oats, Rye, and Triticale Varieties Cut as Forage at Lower Coastal Plain Substation, Camden, Alabama, 1995-97

Brand-variety	Seasonal Forage Yield/Acre				Total
	Autumn	Winter	Early Spring	Late Spring	
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>
Wheat					
Wakefield	555	1,039	1,179	441	3,214
Florida 304	651	1,134	1,092	325	3,201
GA Dozier	721	767	1,343	362	3,192
Madison	531	898	1,294	433	3,156
Jackson	505	926	1,351	328	3,109
Oats					
Citation	644	959	1,564	419	3,585
Chapman	588	858	1,313	525	3,284
Florida 502	570	949	889	641	3,049
Rye					
Wren's 96	777	1,239	2,600	416	5,032
Bonel	796	939	1,690	325	3,750
GI 87	871	1,084	1,493	268	3,716
Maton	738	666	1,868	395	3,667
Wren's Abruzzi AL	779	1,232	1,013	452	3,475
Oklon	731	899	1,494	345	3,469
Florida 401	694	1,293	671	517	3,175
Triticale					
Trical 2700	599	1,055	1,079	454	3,186
Sunland	669	1,170	462	692	2,994

SOURCES OF SEED

WHEAT

Univ. of Georgia, Georgia Station
Griffin, Georgia
GA Dozier
GA 871339

Univ. of Florida, Agric. Res. Ctr.
Quincy, Florida
Florida 304

Department of Agronomy
Virginia Polytechnic Inst.
Blacksburg, Virginia
Jackson
Madison
Wakefield

OATS

Univ. of Georgia, Georgia Station
Griffin, Georgia
GA 875C44-E3

Terral-Norris Seed Co.
Lake Providence, Louisiana
Citation

Univ. of Florida, Agric. Res. Ctr.
Quincy, Florida
Florida 502
Chapman (formerly FL 874-E55)

Alabama Crop Improvement Assoc.
Auburn, Alabama
GA Mitchell

Alabama Farmer's Coop
Decatur, Alabama
Harrison

Louisiana State University
Baton Rouge, Louisiana
LA 85604-AB21-B-B
LA 85495-1-B2-AB2-B

RYE

Alabama Crop Improvement Assoc.
Auburn, Alabama
Wren's Abruzzi AL

Univ. of Florida, Agric. Res. Ctr.
Quincy, Florida
Florida 401

Carl R. Gurley, Inc.
Princeton, North Carolina
GI-87
Gurley's Grazer 2000

Green Seed Company
Athens, Alabama
Winter King

Samuel Roberts Noble Foundation, Inc.
Ardmore, Oklahoma
Bonel
Bates
Maton
Oklon
NF 94

Univ. of Georgia, Georgia Station
Griffin, Georgia
Wren's 96 (formerly GA-WACL-7)

BARLEY

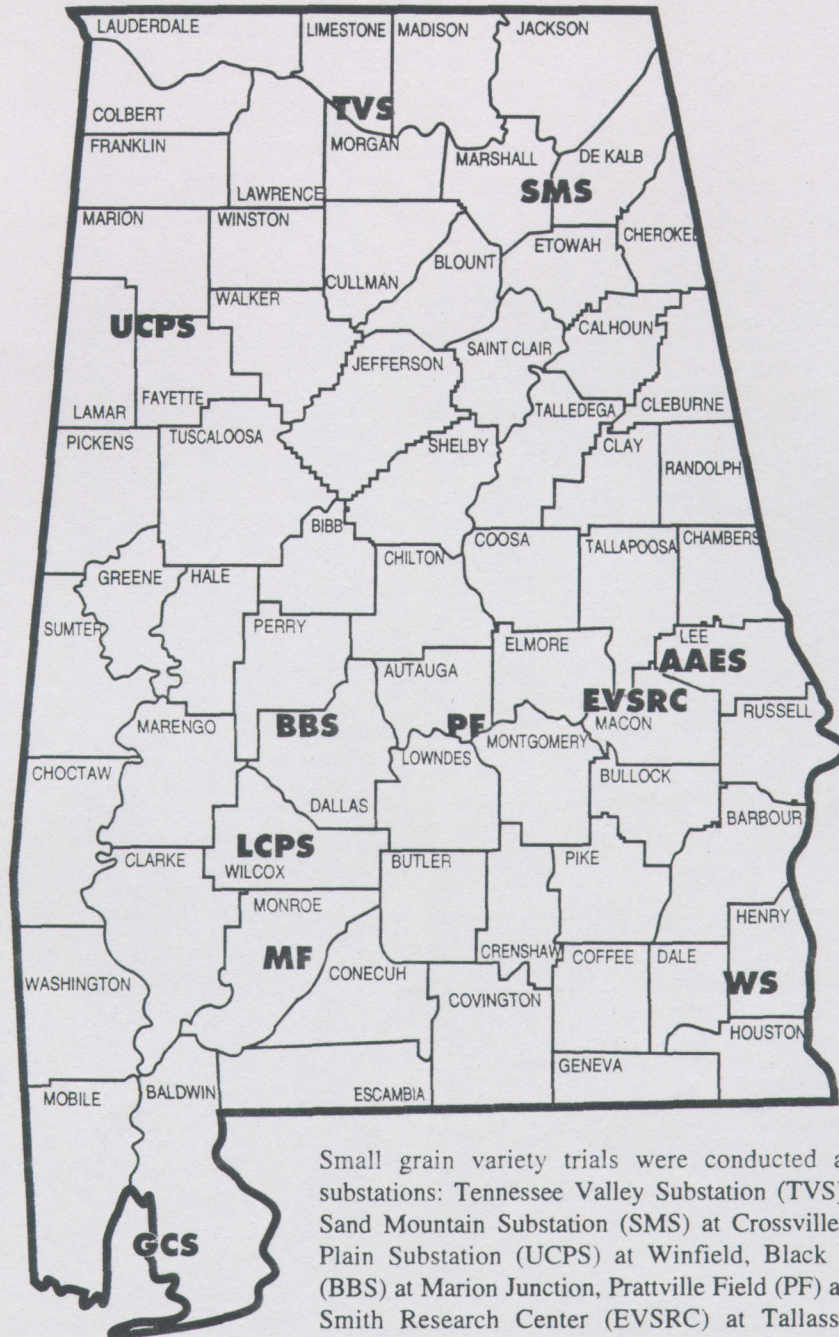
Department of Agronomy
Virginia Polytechnic Inst.
Blacksburg, Virginia
Pamunkey
Callao
Nomini
Starling

TRITICALE

Resource Seeds, Inc.
Union, Kentucky
Trical 2700

Univ. of Florida, Agric. Res. Ctr.
Quincy, Florida
Sunland

Location of Participating Research Units



Small grain variety trials were conducted at these AAES substations: Tennessee Valley Substation (TVS) at Belle Mina, Sand Mountain Substation (SMS) at Crossville, Upper Coastal Plain Substation (UCPS) at Winfield, Black Belt Substation (BBS) at Marion Junction, Prattville Field (PF) at Prattville, E.V. Smith Research Center (EVSRC) at Tallassee, Gulf Coast Substation (GCS) at Fairhope, Monroeville Field (MF) at Monroeville, Wiregrass Substation (WS) at Headland, and Lower Coastal Plain Substation (LCPS) at Camden. Without the commitment of the substation personnel, results presented in this report would not have been presented in a timely manner.