



**The 1998 Alabama
Performance Comparison of**

Small Grain Varieties
for Forage



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*Information contained herein is available to all persons regardless of race,
color, sex, or national origin.*

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The 1998 Alabama Performance Comparison of Small Grain Varieties for Forage

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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 Alabama because yields and distribution of growth vary. For example, 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 nine locations were used to compile this report. These locations represent the varied growing conditions in Alabama for the past three 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 seven 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 1997, due to wet conditions, all test locations except the Black Belt Substation, Marion Junction, were planted in mid October to early November. At the Black Belt Substation, Marion Junction, the test was not planted due to wet conditions. In 1996, all test locations were planted in early to mid October. The tests were fertilized at planting with 100 pounds N per acre and clipped with a flail-type mower each time they reached six 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 and should be a better indicator for performance comparisons. 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. In the 1997-98 growing season, most locations reported a wet fall and winter with a dry spring.

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TABLE 1. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT TENNESSEE VALLEY SUBSTATION, BELLE MINA, ALABAMA, 1998

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					
AR 584A-3-1	—	248	2,067	724	3,040
Wakefield	—	220	1,886	849	2,955
GA Dozier	—	145	1,960	713	2,818
Roberts	—	327	1,476	957	2,760
Madison	—	121	1,711	908	2,741
Florida 304	—	239	1,610	758	2,608
Test Mean	—	217	1,785	818	2,820
C.V. (%)	—	17	7	9	6
L.S.D (.10)	—	55	192	112	240
Oats					
Dallas	—	90	2,317	1,266	3,673
Ozark	—	406	2,094	1,008	3,507
Chapman	—	150	2,236	808	3,195
Harrison	—	146	1,859	1,144	3,149
Ga Mitchell	—	206	1,903	931	3,040
Test Mean	—	200	2,082	1,031	3,313
C.V. (%)	—	129	9	14	10
L.S.D (.10)	—	399	287	216	485
Rye					
GI 87	—	718	2,813	514	4,045
Maton	—	357	3,061	591	4,009
Wintergrazer 70	—	355	2,842	616	3,813
Oklon	—	493	2,663	610	3,766
Elbon	—	231	2,844	655	3,730
Bonel	—	403	2,734	467	3,605
Bates	—	549	2,325	610	3,483
Wren's 96	—	1,095	1,450	860	3,405
Wren's Abruzzi AL	—	465	1,697	840	3,002
Test Mean	—	519	2,492	640	3,651
C.V. (%)	—	18	10	16	7
L.S.D (.10)	—	135	340	147	372
Triticale					
Trical 2700	—	160	2,403	1,487	4,049
Test Mean	—	160	2,403	1,487	4,049
C.V. (%)	—	—	—	—	—
L.S.D (.10)	—	—	—	—	—

TABLE 2. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT TENNESSEE VALLEY SUBSTATION, BELLE MINA, ALABAMA, 1997-98

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					
Madison	—	752	1,975	686	3,413
GA Dozier	—	659	2,057	603	3,319
Wakefield	—	696	1,824	648	3,168
Roberts	—	597	1,580	668	2,846
Florida 304	—	471	1,589	505	2,565
Oats					
Harrison	—	292	1,579	990	2,860
Chapman	—	303	1,890	603	2,795
Ga Mitchell	—	245	1,520	701	2,467
Rye					
Maton	—	1,171	3,142	810	5,124
Oklon	—	1,554	2,592	703	4,849
Bonel	—	961	2,870	717	4,547
Bates	—	1,355	2,458	687	4,500
Wren's 96	—	1,375	1,584	722	3,681
Wren's Abruzzi AL	—	874	1,514	673	3,060
Triticale					
Trical 2700	—	476	2,026	1,237	3,739

TABLE 3. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT TENNESSEE VALLEY SUBSTATION, BELLE MINA, ALABAMA, 1996-98

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					
Madison	—	702	1,717	1,337	3,755
GA Dozier	—	652	1,721	1,117	3,490
Wakefield	—	683	1,553	1,226	3,462
Florida 304	—	542	1,241	986	2,769
Oats					
Harrison	—	333	1,288	1,737	3,359
Chapman	—	320	1,556	1,244	3,121
Ga Mitchell	—	287	1,182	1,175	2,644
Rye					
Maton	—	1,015	2,823	1,455	5,292
Oklon	—	1,484	2,241	1,311	5,036
Bonel	—	1,081	2,500	1,282	4,862
Wren's 96	—	1,366	1,250	1,310	3,926
Wren's Abruzzi AL	—	885	1,203	1,307	3,395
Triticale					
Trical 2700	—	563	1,715	2,023	4,301

TABLE 4. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT SAND MOUNTAIN SUBSTATION, CROSSVILLE, ALABAMA, 1998

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					
Roberts	—	582	886	356	1,824
AR 584A-3-1	—	131	1,172	468	1,771
Wakefield	—	156	1,086	429	1,671
GA Dozier	—	63	1,068	454	1,586
Florida 304	—	334	910	282	1,526
Madison	—	60	947	422	1,430
Test Mean	—	221	1,012	402	1,635
C.V. (%)	—	21	15	17	12
L.S.D (.10)	—	70	230	104	296
Oats					
Chapman	—	169	1,167	318	1,654
Dallas	—	—	1,075	308	1,383
Ozark	—	—	971	383	1,354
Ga Mitchell	—	—	1,041	288	1,329
Harrison	—	—	890	275	1,165
Test Mean	—	169	1,029	314	1,377
C.V. (%)	—	—	13	43	15
L.S.D (.10)	—	—	210	206	304
Rye					
Wren's 96	—	1,395	755	359	2,509
GI 87	—	354	1,477	560	2,391
Bates	—	486	1,261	565	2,313
Maton	—	54	1,542	669	2,265
Elbon	—	78	1,487	670	2,235
Wren's Abruzzi AL	—	1,324	538	311	2,173
Oklon	—	217	1,354	527	2,098
Wintergrazer 70	—	77	1,504	484	2,065
Bonel	—	126	1,391	498	2,015
Test Mean	—	457	1,257	516	2,229
C.V. (%)	—	25	11	13	10
L.S.D (.10)	—	165	202	99	317
Triticale					
Trical 2700	—	—	1,446	561	2,008
Test Mean	—	—	1,446	561	2,008
C.V. (%)	—	—	—	—	—
L.S.D (.10)	—	—	—	—	—

TABLE 5. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT SAND MOUNTAIN SUBSTATION, CROSSVILLE, ALABAMA, 1997-98

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					
Roberts	–	291	1,446	363	2,099
Madison	–	30	1,530	432	1,993
GA Dozier	–	32	1,507	403	1,941
Wakefield	–	78	1,425	330	1,834
Florida 304	–	167	1,408	238	1,813
Oats					
Harrison	–	–	1,101	258	1,359
Chapman	–	84	1,097	159	1,340
Ga Mitchell	–	–	1,038	298	1,336
Rye					
Bates	–	243	1,961	668	2,872
Maton	–	27	2,024	753	2,805
Wren's 96	–	698	1,524	553	2,775
Bonel	–	63	1,940	762	2,765
Oklon	–	108	1,855	687	2,651
Wren's Abruzzi AL	–	662	804	416	1,882
Triticale					
Trical 2700	–	–	1,382	496	1,878

TABLE 6. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT SAND MOUNTAIN SUBSTATION, CROSSVILLE, ALABAMA, 1996-98

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					
Madison	–	20	1,197	504	1,721
GA Dozier	–	21	1,188	497	1,706
Wakefield	–	52	1,114	494	1,660
Florida 304	–	111	989	334	1,434
Oats					
Harrison	–	–	818	646	1,464
Chapman	–	56	771	527	1,354
Ga Mitchell	–	–	692	199	891
Rye					
Maton	–	18	1,919	779	2,717
Bonel	–	163	1,630	794	2,588
Oklon	–	244	1,573	725	2,542
Wren's 96	–	628	1,211	667	2,506
Wren's Abruzzi AL	–	492	648	482	1,622
Triticale					
Trical 2700	–	–	1,155	632	1,787

TABLE 7. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT UPPER COASTAL PLAIN SUBSTATION, WINFIELD, ALABAMA, 1998

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	—	1,112	1,499	700	3,312
GA Dozier	—	1,060	1,486	436	2,983
Florida 304	—	1,250	987	546	2,783
AR 584A-3-1	—	977	1,253	539	2,770
Roberts	—	1,067	1,025	631	2,723
Madison	—	839	1,169	663	2,671
Test Mean	—	1,051	1,237	586	2,873
C.V. (%)	—	18	19	38	14
L.S.D (.10)	—	284	340	326	586
Oats					
Chapman	—	1,223	1,375	358	2,956
Ozark	—	713	1,177	1,011	2,900
Dallas	—	673	1,137	321	2,132
Ga Mitchell	—	781	761	491	2,032
Harrison	—	895	551	—	1,446
Test Mean	—	857	1,000	545	2,293
C.V. (%)	—	38	34	—	20
L.S.D (.10)	—	500	517	—	709
Rye					
Wintergrazer 70	—	1,042	2,042	944	4,029
Elbon	—	1,018	2,235	347	3,600
Maton	—	693	2,215	621	3,530
Oklon	—	1,125	1,964	390	3,478
Bates	—	1,349	1,745	219	3,313
GI 87	—	975	1,844	268	3,087
Bonel	—	800	1,753	348	2,901
Wren's 96	—	1,312	1,074	484	2,870
Wren's Abruzzi AL	—	1,231	914	348	2,493
Test Mean	—	1,061	1,754	441	3,256
C.V. (%)	—	26	22	40	16
L.S.D (.10)	—	399	550	253	741
Triticale					
Trical 2700	—	1,132	1,398	637	3,167
Test Mean	—	1,132	1,398	637	3,167
C.V. (%)	—	—	—	—	—
L.S.D (.10)	—	—	—	—	—

TABLE 8. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT UPPER COASTAL PLAIN SUBSTATION, WINFIELD, ALABAMA, 1997-98

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	–	849	1,686	350	2,885
GA Dozier	–	651	1,866	218	2,735
Madison	–	689	1,541	332	2,562
Roberts	–	677	1,490	315	2,482
Florida 304	–	783	1,401	273	2,457
Oats					
Chapman	–	612	1,176	179	1,967
Ga Mitchell	–	390	380	245	1,016
Harrison	–	448	275	–	723
Rye					
Maton	–	648	2,421	311	3,380
Oklon	–	924	2,241	195	3,361
Bates	–	1,134	1,983	109	3,227
Bonel	–	712	2,036	174	2,922
Wren's 96	–	809	1,489	242	2,540
Wren's Abruzzi AL	–	798	1,121	174	2,094
Triticale					
Trical 2700	–	670	1,216	319	2,205

TABLE 9. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT UPPER COASTAL PLAIN SUBSTATION, WINFIELD, ALABAMA, 1996-98

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					
GA Dozier	–	609	1,713	145	2,467
Wakefield	–	705	1,461	233	2,399
Madison	–	572	1,362	221	2,155
Florida 304	–	623	1,159	182	1,964
Oats					
Chapman	–	489	1,206	119	1,815
Harrison	–	469	529	–	997
Ga Mitchell	–	260	515	164	939
Rye					
Maton	–	685	3,353	207	4,245
Oklon	–	1,158	2,557	130	3,846
Bonel	–	952	2,417	116	3,486
Wren's 96	–	1,194	1,246	161	2,602
Wren's Abruzzi AL	–	859	1,096	116	2,071
Triticale					
Trical 2700	–	538	1,525	212	2,275

TABLE 10. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT PRATTVILLE FIELD, PRATTVILLE, ALABAMA, 1998

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					
Roberts	—	2,961	666	—	3,627
Florida 304	—	2,953	574	—	3,527
Wakefield	—	2,555	751	—	3,306
AR 584A-3-1	—	2,483	809	—	3,293
Madison	—	2,367	768	—	3,135
GA Dozier	—	2,172	770	—	2,942
Test Mean	—	2,582	723	—	3,305
C.V. (%)	—	19	9	—	14
L.S.D (.10)	—	734	97	—	697
Oats					
Ga Mitchell	—	2,482	470	—	2,952
Chapman	—	2,323	473	—	2,796
Harrison	—	1,867	510	—	2,377
Dallas	—	1,594	636	—	2,230
Ozark	—	1,502	622	—	2,124
Test Mean	—	1,954	542	—	2,496
C.V. (%)	—	23	15	—	19
L.S.D (.10)	—	672	123	—	729
Rye					
Wren's Abruzzi AL	—	3,527	769	—	4,297
Bates	—	2,829	986	—	3,815
GI 87	—	2,605	1,148	—	3,753
Wren's 96	—	2,940	787	—	3,726
Bonel	—	2,451	1,033	—	3,484
Oklon	—	2,233	1,118	—	3,351
Wintergrazer 70	—	2,106	1,092	—	3,197
Elbon	—	1,925	1,138	—	3,063
Maton	—	1,715	1,204	—	2,919
Test Mean	—	2,481	1,030	—	3,512
C.V. (%)	—	23	13	—	16
L.S.D (.10)	—	816	193	—	788
Triticale					
Trical 2700	—	2,166	975	—	3,140
Test Mean	—	2,166	975	—	3,140
C.V. (%)	—	—	—	—	—
L.S.D (.10)	—	—	—	—	—

TABLE 11. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT PRATTVILLE FIELD, PRATTVILLE, ALABAMA, 1997-98

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	–	2,630	1,295	228	4,154
Florida 304	–	2,822	948	321	4,090
Roberts	–	2,470	1,224	309	4,003
GA Dozier	–	2,493	1,135	194	3,822
Madison	–	2,138	1,281	162	3,581
Oats					
Chapman	–	2,404	1,217	–	3,622
Harrison	–	2,066	1,141	–	3,207
Ga Mitchell	–	2,228	938	–	3,166
Rye					
Bates	–	2,997	1,349	–	4,346
Bonel	–	2,770	1,429	–	4,199
Maton	–	2,357	1,535	–	3,891
Wren's Abruzzi AL	–	3,047	714	–	3,761
Wren's 96	–	2,785	885	–	3,670
Oklon	–	2,516	1,067	–	3,583
Triticale					
Trical 2700	–	2,252	896	–	3,147

TABLE 12. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT PRATTVILLE FIELD, PRATTVILLE, ALABAMA, 1996-98

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					
Florida 304	–	2,525	632	214	3,370
Wakefield	–	2,245	928	152	3,326
GA Dozier	–	2,290	891	129	3,310
Madison	–	2,019	950	108	3,076
Oats					
Chapman	–	2,029	811	–	2,841
Harrison	–	1,706	853	–	2,559
Ga Mitchell	–	1,874	626	–	2,499
Rye					
Bonel	–	2,840	1,289	–	4,129
Maton	–	2,330	1,568	–	3,898
Oklon	–	2,626	1,099	–	3,725
Wren's 96	–	2,740	699	–	3,439
Wren's Abruzzi AL	–	2,657	552	–	3,209
Triticale					
Trical 2700	–	1,983	597	–	2,580

TABLE 13. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT PLANT BREEDING UNIT, TALLASSEE, ALABAMA, 1998

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					
Roberts	760	1,134	1,010	1,259	4,163
AR 584A-3-1	473	952	1,075	1,204	3,703
Florida 304	805	1,275	770	720	3,570
Wakefield	488	1,127	1,012	848	3,474
GA Dozier	393	777	1,101	1,051	3,323
Madison	282	1,163	1,030	843	3,317
Test Mean	533	1,071	1,000	987	3,592
C.V. (%)	29	21	16	27	17
L.S.D (.10)	232	338	239	389	905
Oats					
Harrison	366	936	675	1,406	3,383
Chapman	314	1,400	545	993	3,252
Dallas	87	1,120	836	1,206	3,249
Ozark	90	759	913	1,099	2,860
Ga Mitchell	307	940	504	783	2,535
Test Mean	233	1,031	695	1,098	3,056
C.V. (%)	30	15	22	18	13
L.S.D (.10)	105	240	234	301	625
Rye					
Bonel	656	948	1,556	1,588	4,749
Wintergrazer 70	665	1,048	1,478	916	4,107
Wren's 96	1,115	1,309	929	737	4,091
GI 87	820	1,159	1,286	763	4,028
Elbon	750	1,008	1,218	871	3,847
Oklon	780	876	1,378	681	3,715
Bates	719	1,238	1,089	667	3,713
Wren's Abruzzi AL	882	1,283	625	539	3,328
Maton	385	511	1,469	946	3,311
Test Mean	753	1,042	1,225	856	3,877
C.V. (%)	22	25	17	36	17
L.S.D (.10)	241	368	293	435	963
Triticale					
Trical 2700	340	874	1,092	927	3,232
Test Mean	340	874	1,092	927	3,232
C.V. (%)	—	—	—	—	—
L.S.D (.10)	—	—	—	—	—

TABLE 14. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT PLANT BREEDING UNIT, TALLASSEE, ALABAMA, 1997-98

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					
Roberts	545	1,325	1,304	629	3,803
Florida 304	528	1,384	1,077	360	3,350
Wakefield	338	1,204	1,300	424	3,267
Madison	212	1,188	1,415	421	3,235
GA Dozier	334	974	1,350	525	3,184
Oats					
Harrison	232	927	955	703	2,818
Chapman	185	1,202	857	496	2,740
Ga Mitchell	216	1,014	773	392	2,394
Rye					
Bonel	625	1,264	1,483	794	4,166
Bates	850	1,512	1,204	334	3,899
Wren's 96	863	1,605	1,004	369	3,841
Oklon	728	1,241	1,224	341	3,533
Maton	486	996	1,450	473	3,405
Wren's Abruzzi AL	700	1,550	739	270	3,259
Triticale					
Trical 2700	348	1,271	1,215	464	3,298

TABLE 15. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT PLANT BREEDING UNIT, TALLASSEE, ALABAMA, 1996-98

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	226	1,169	1,030	1,272	3,696
Madison	141	1,147	1,116	1,080	3,485
GA Dozier	222	964	1,198	1,096	3,481
Florida 304	352	1,347	789	904	3,392
Oats					
Harrison	155	1,088	800	1,043	3,086
Chapman	124	1,165	795	769	2,852
Ga Mitchell	144	1,022	661	665	2,492
Rye					
Bonel	416	1,706	1,369	1,348	4,839
Maton	324	1,407	1,622	1,255	4,608
Wren's 96	575	1,971	837	1,124	4,508
Oklon	485	1,720	1,151	1,080	4,435
Wren's Abruzzi AL	467	1,824	578	1,014	3,883
Triticale					
Trical 2700	232	1,289	1,128	1,118	3,767

TABLE 16. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT GULF COAST SUBSTATION, FAIRHOPE, ALABAMA, 1998

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					
AR 584A-3-1	1,048	2,247	1,399	3,664	8,357
Roberts	1,290	2,547	1,210	1,360	6,407
GA Dozier	692	2,437	1,287	1,978	6,393
Wakefield	850	2,349	1,033	1,658	5,890
Madison	711	2,693	272	2,081	5,757
Florida 304	1,092	2,643	391	1,024	5,150
Test Mean	947	2,486	932	1,961	6,326
C.V. (%)	13	10	16	9	9
L.S.D (.10)	178	354	222	270	808
Oats					
Harrison	1,021	2,306	478	3,418	7,223
Chapman	1,077	1,863	445	2,675	6,061
Ga Mitchell	1,139	1,824	437	2,256	5,656
Dallas	695	2,280	640	1,919	5,534
Test Mean	983	2,068	500	2,567	6,118
C.V. (%)	11	3	17	20	10
L.S.D (.10)	178	115	134	826	1,010
Rye					
Maton	1,342	2,581	1,474	1,593	6,990
Bates	1,627	2,623	572	1,912	6,733
Bonel	1,376	2,589	991	1,575	6,530
GI 87	1,560	2,293	1,074	1,463	6,390
Wintergrazer 70	1,180	2,455	1,078	1,511	6,223
RB 20-20	1,342	2,271	985	1,621	6,218
Oklon	1,490	2,341	911	1,466	6,209
Elbon	1,252	2,391	1,199	1,317	6,159
Sawan Grazer	1,353	2,304	747	1,579	5,983
Wren's 96	1,340	2,298	209	1,535	5,383
Wren's Abruzzi AL	1,023	1,985	160	1,927	5,095
Test Mean	1,353	2,376	854	1,591	6,174
C.V. (%)	13	6	15	7	5
L.S.D (.10)	248	210	176	150	472
Triticale					
Trical 2700	1,151	2,249	854	2,612	6,867
Test Mean	1,151	2,249	854	2,612	6,867
C.V. (%)	—	—	—	—	—
L.S.D (.10)	—	—	—	—	—

TABLE 17. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT GULF COAST SUBSTATION, FAIRHOPE, ALABAMA, 1997-98

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					
GA Dozier	984	2,076	1,826	989	5,875
Roberts	1,278	2,058	1,732	680	5,747
Madison	1,005	2,013	1,138	1,041	5,197
Florida 304	1,201	2,231	1,147	512	5,090
Wakefield	921	1,829	1,508	829	5,088
Oats					
Harrison	1,217	2,135	1,411	1,709	6,471
Chapman	1,046	2,012	1,428	1,337	5,824
Ga Mitchell	1,392	1,781	1,310	1,128	5,611
Rye					
Oklon	2,104	2,232	1,423	733	6,491
Maton	1,410	2,144	2,081	796	6,430
GI 87	1,732	2,252	1,661	732	6,376
Bates	1,644	2,248	1,383	956	6,230
Bonel	1,541	2,197	1,672	788	6,197
Wren's 96	1,872	1,879	1,103	768	5,621
Wren's Abruzzi AL	1,331	1,863	887	964	5,044
Triticale					
Trical 2700	1,263	2,081	1,687	1,306	6,338

TABLE 18. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT GULF COAST SUBSTATION, FAIRHOPE, ALABAMA, 1996-98

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					
GA Dozier	892	1,694	2,306	659	5,552
Madison	859	1,640	1,871	694	5,064
Florida 304	1,040	1,834	1,712	341	4,927
Wakefield	824	1,559	1,959	553	4,895
Oats					
Harrison	1,133	1,707	1,879	1,139	5,859
Chapman	997	1,591	1,837	892	5,316
Ga Mitchell	1,278	1,378	1,702	752	5,109
Rye					
Maton	1,242	1,591	2,454	531	5,818
Oklon	1,717	1,660	1,873	489	5,739
GI 87	1,466	1,695	2,066	488	5,714
Bonel	1,376	1,648	2,024	525	5,573
Wren's 96	1,671	1,470	1,359	512	5,011
Wren's Abruzzi AL	1,217	1,554	1,082	642	4,495
Triticale					
Trical 2700	1,182	1,677	1,752	871	5,482

TABLE 19. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT MONROEVILLE FIELD, MONROEVILLE, ALABAMA, 1998

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					
Florida 304	—	602	1,419	—	2,020
Roberts	—	545	1,238	—	1,782
Wakefield	—	405	1,339	—	1,744
Madison	—	336	1,368	—	1,704
AR 584A-3-1	—	306	1,133	—	1,439
GA Dozier	—	250	1,036	—	1,285
Test Mean	—	407	1,255	—	1,663
C.V. (%)	—	15	8	—	8
L.S.D (.10)	—	87	142	—	187
Oats					
Chapman	—	266	1,743	—	2,009
Ga Mitchell	—	305	1,587	—	1,893
Dallas	—	205	1,597	—	1,802
Harrison	—	265	1,377	—	1,641
Test Mean	—	260	1,576	—	1,836
C.V. (%)	—	30	14	—	14
L.S.D (.10)	—	125	344	—	396
Rye					
Wren's Abruzzi AL	—	571	1,465	—	2,035
Wren's 96	—	503	1,205	—	1,708
Bates	—	488	1,155	—	1,643
Sawan Grazer	—	509	1,089	—	1,598
RB 20-20	—	429	1,133	—	1,562
Bonel	—	333	1,068	—	1,402
Wintergrazer 70	—	353	1,046	—	1,399
Maton	—	267	1,081	—	1,348
Elbon	—	285	1,027	—	1,312
Oklon	—	310	991	—	1,301
GI 87	—	417	849	—	1,267
Test Mean	—	406	1,101	—	1,507
C.V. (%)	—	21	14	—	14
L.S.D (.10)	—	117	221	—	300
Triticale					
Trical 2700	—	313	1,537	—	1,849
Test Mean	—	313	1,537	—	1,849
C.V. (%)	—	—	—	—	—
L.S.D (.10)	—	—	—	—	—

TABLE 20. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT MONROEVILLE FIELD, MONROEVILLE, ALABAMA, 1997-98

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					
Florida 304	305	1,215	1,861	—	3,382
Madison	225	1,070	1,873	—	3,168
Wakefield	339	1,096	1,631	—	3,066
Roberts	398	1,126	1,448	—	2,971
GA Dozier	341	972	1,294	—	2,607
Oats					
Chapman	184	946	1,812	—	2,942
Harrison	244	837	1,359	—	2,440
Ga Mitchell	253	831	1,271	—	2,355
Rye					
Bonel	572	1,057	1,453	—	3,081
Maton	559	971	1,541	—	3,071
Wren's Abruzzi AL	514	1,002	1,542	—	3,058
Bates	594	1,017	1,434	—	3,045
Wren's 96	557	1,042	1,363	—	2,962
Oklon	592	998	1,296	—	2,887
GI 87	538	1,020	1,306	—	2,864
Triticale					
Trical 2700	398	986	1,684	—	3,067

TABLE 21. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT MONROEVILLE FIELD, MONROEVILLE, ALABAMA, 1996-98

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					
Florida 304	361	1,296	1,927	—	3,584
Wakefield	375	1,191	1,823	—	3,389
Madison	234	1,117	1,971	—	3,321
GA Dozier	386	1,001	1,799	—	3,186
Oats					
Chapman	183	972	1,735	—	2,891
Harrison	272	842	1,549	—	2,663
Ga Mitchell	282	808	1,422	—	2,512
Rye					
Maton	705	1,042	2,102	—	3,849
Wren's 96	741	1,551	1,430	—	3,723
Bonel	783	1,141	1,688	—	3,612
Oklon	713	1,093	1,510	—	3,316
Wren's Abruzzi AL	626	1,213	1,344	—	3,183
GI 87	614	1,045	1,496	—	3,156
Triticale					
Trical 2700	573	1,051	1,843	—	3,467

TABLE 22. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT WIREGRASS SUBSTATION, HEADLAND, ALABAMA, 1998

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					
AR 584A-3-1	700	4,978	4,943	—	10,620
GA Dozier	503	4,208	4,405	—	9,115
Florida 304	847	5,683	2,567	—	9,097
Wakefield	518	4,648	3,881	—	9,047
Roberts	880	4,126	3,879	—	8,885
Madison	361	4,306	3,279	—	7,946
Test Mean	635	4,658	3,826	—	9,118
C.V. (%)	14	10	15	—	9
L.S.D (.10)	130	702	832	—	1,165
Oats					
Dallas	230	4,879	5,444	—	10,553
Chapman	512	4,818	4,574	—	9,904
Ga Mitchell	551	4,795	4,142	—	9,488
Harrison	702	4,260	4,123	—	9,086
Test Mean	499	4,688	4,571	—	9,758
C.V. (%)	16	12	21	—	12
L.S.D (.10)	128	922	1,490	—	1,880
Rye					
Bates	1,006	6,103	4,009	—	11,118
Wintergrazer 70	671	5,526	4,277	—	10,474
RB 20-20	1,116	5,588	3,752	—	10,456
Oklon	1,036	5,218	3,955	—	10,209
Maton	846	4,217	5,125	—	10,188
Wren's 96	1,493	5,912	2,579	—	9,984
Bonel	963	5,392	3,533	—	9,887
GI 87	1,080	5,313	3,108	—	9,501
Sawan Grazer	1,056	5,915	2,473	—	9,445
Elbon	655	4,533	3,806	—	8,994
Wren's Abruzzi AL	1,118	5,241	2,571	—	8,930
Test Mean	1,004	5,360	3,562	—	9,926
C.V. (%)	15	10	18	—	7
L.S.D (.10)	217	754	918	—	1,047
Triticale					
Trical 2700	538	5,204	4,835	—	10,577
Test Mean	538	5,204	4,835	—	10,577
C.V. (%)	—	—	—	—	—
L.S.D (.10)	—	—	—	—	—

TABLE 23. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT WIREGRASS SUBSTATION, HEADLAND, ALABAMA, 1997-98

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					
GA Dozier	829	3,476	3,936	—	8,241
Wakefield	765	3,499	3,575	—	7,840
Florida 304	796	4,169	2,666	—	7,631
Roberts	884	3,161	3,449	—	7,494
Madison	617	3,140	2,844	—	6,601
Oats					
Chapman	520	4,010	3,669	—	8,198
Ga Mitchell	605	4,270	3,290	—	8,165
Harrison	732	3,673	3,462	—	7,867
Rye					
Wren's 96	1,260	5,098	2,804	—	9,162
Bates	906	4,503	3,572	—	8,981
Maton	797	3,432	4,734	—	8,963
Oklon	951	4,429	3,525	—	8,905
Bonel	861	4,092	3,182	—	8,135
Wren's Abruzzi AL	1,105	4,666	2,327	—	8,098
GI 87	896	4,038	2,950	—	7,884
Triticale					
Trical 2700	733	3,999	3,736	—	8,468

TABLE 24. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT WIREGRASS SUBSTATION, HEADLAND, ALABAMA, 1996-98

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	510	3,132	3,141	—	6,783
GA Dozier	553	2,909	3,320	—	6,781
Florida 304	531	3,604	2,430	—	6,564
Madison	412	2,645	2,394	—	5,451
Oats					
Ga Mitchell	403	3,575	2,835	—	6,813
Chapman	347	3,348	2,998	—	6,693
Harrison	488	3,074	2,935	—	6,496
Rye					
Wren's 96	840	4,979	2,611	—	8,430
Oklon	634	4,103	3,439	—	8,177
Bonel	574	3,792	3,259	—	7,625
Maton	531	2,941	4,133	—	7,605
Wren's Abruzzi AL	737	4,757	2,026	—	7,519
GI 87	598	3,771	2,947	—	7,315
Triticale					
Trical 2700	489	3,651	3,224	—	7,364

TABLE 25. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT LOWER COASTAL PLAIN SUBSTATION, CAMDEN, ALABAMA, 1998

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					
Roberts	—	445	1,868	—	2,312
Wakefield	—	329	1,932	—	2,260
AR 584A-3-1	—	193	2,044	—	2,238
GA Dozier	—	212	2,016	—	2,228
Florida 304	—	781	1,437	—	2,218
Madison	—	320	1,791	—	2,111
Test Mean	—	380	1,848	—	2,228
C.V. (%)	—	27	13	—	12
L.S.D (.10)	—	153	351	—	397
Oats					
Dallas	—	142	2,308	—	2,450
Chapman	—	247	1,996	—	2,242
Ga Mitchell	—	208	2,034	—	2,242
Harrison	—	174	2,024	—	2,198
Test Mean	—	193	2,090	—	2,283
C.V. (%)	—	46	7	—	6
L.S.D (.10)	—	141	234	—	227
Rye					
Oklon	—	206	2,257	—	2,463
Elbon	—	136	2,275	—	2,411
Bonel	—	164	2,240	—	2,404
Maton	—	54	2,256	—	2,310
Wintergrazer 70	—	88	2,201	—	2,290
Wren's 96	—	479	1,782	—	2,261
RB 20-20	—	203	1,997	—	2,200
Sawan Grazer	—	184	2,003	—	2,187
Bates	—	315	1,835	—	2,151
Wren's Abruzzi AL	—	608	1,427	—	2,035
GI 87	—	166	1,835	—	2,001
Test Mean	—	237	2,010	—	2,246
C.V. (%)	—	20	9	—	9
L.S.D (.10)	—	67	257	—	285
Triticale					
Trical 2700	—	123	2,348	—	2,471
Test Mean	—	123	2,348	—	2,471
C.V. (%)	—	—	—	—	—
L.S.D (.10)	—	—	—	—	—

TABLE 26. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT LOWER COASTAL PLAIN SUBSTATION, CAMDEN, ALABAMA, 1997-98

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					
Roberts	—	758	1,793	—	2,551
Florida 304	—	915	1,282	—	2,196
GA Dozier	—	484	1,669	—	2,153
Madison	—	546	1,581	—	2,127
Wakefield	—	582	1,515	—	2,096
Oats					
Chapman	—	545	1,966	—	2,511
Harrison	—	579	1,863	—	2,442
Ga Mitchell	—	574	1,832	—	2,405
Rye					
Wren's 96	—	860	1,641	—	2,501
Bonel	—	373	2,010	—	2,383
Maton	—	273	2,109	—	2,382
Oklon	—	491	1,880	—	2,371
Bates	—	530	1,682	—	2,212
Wren's Abruzzi AL	—	888	1,280	—	2,167
GI 87	—	495	1,508	—	2,003
Triticale					
Trical 2700	—	612	1,602	—	2,215

TABLE 27. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT LOWER COASTAL PLAIN SUBSTATION, CAMDEN, ALABAMA, 1996-98

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	-	988	1,443	320	2,751
Madison	-	906	1,448	306	2,660
GA Dozier	-	691	1,635	276	2,602
Florida 304	-	1,226	1,122	241	2,589
Oats					
Chapman	-	852	1,567	377	2,796
Harrison	-	737	1,658	315	2,709
Ga Mitchell	-	729	1,460	372	2,561
Rye					
Wren's 96	-	1,280	2,640	281	4,202
Bonel	-	899	1,863	184	2,946
Maton	-	623	2,034	219	2,876
Oklon	-	868	1,731	210	2,809
GI 87	-	1,035	1,537	118	2,690
Wren's Abruzzi AL	-	1,244	1,075	309	2,628
Triticale					
Trical 2700	-	914	1,411	342	2,666

Sources of Seed

Wheat

AR 584A-3-1
University of Arkansas
Fayetteville, Arkansas

GA Dozier, Roberts (formerly GA 871339)
Univ. of Georgia, Georgia Station
Griffin, Georgia

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

Madison, Wakefield
Alabama Crop Improvement Assoc.
Auburn, Alabama

Oats

Ozark
University of Arkansas
Fayetteville, Arkansas

Dallas
Texas A&M University
College Station, Texas

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

GA Mitchell
Alabama Crop Improvement Assoc.
Auburn, Alabama

Harrison
Alabama Farmer's Coop
Decatur, Alabama

Rye

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

GI-87 Ryegrazer
Carl R. Gurley, Inc.
Princeton, North Carolina

RB 20-20
Red Barn Industries,
Raleigh, North Carolina

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

Wren's 96
Univ. of Georgia, Georgia Station
Griffin, Georgia

Wintergrazer 70
Seed Production, Inc.
Madison, Georgia

Sawan Grazer
Sawan Seeds, Inc.
Pelham, Georgia