

*Performance
of Small Grain
Varieties for
Forage in
Alabama,
2003-04*

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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 2004 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 the State 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 on total forage yields and seasonal yields of varieties.

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 eight 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 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 entered.

The tests are normally planted in late September to early October. 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. The entire harvested forage from each plot was weighed. A sub-sample was also weighed green from each plot, then dried and reweighed. The percent dry matter figure from these weights was then used to calculate forage dry matter per acre. The tests were top-dressed in February with 60 pounds N per acre and clipping was continued until no regrowth occurred in the spring.

DATA EXPLANATION

Total and seasonal dry matter yields are recorded 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 provided and should be a better indicator for performance comparisons. Cold weather and wet conditions in the fall combined to reduce fall and winter growth.

TABLE 1. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER, BELLE MINA, ALABAMA, 2004

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Jackson	----	861	2472	443	3777
Roberts	----	838	2311	516	3665
<i>Oat</i>					
Walken	----	1200	2630	976	4806
Harrison	----	830	2762	872	4464
TX01CSRH Sel 1	----	518	2520	1129	4168
FL 9708-P37	----	590	2571	1003	4164
Horizon 314	----	644	2399	929	3972
Horizon 474	----	721	2530	689	3940
Magnum 2000	----	1355	369	230	1954
<i>Rye</i>					
Wintergrazer 70	----	993	3099	784	4875
FL PL97P20	----	1101	2174	642	3917
FLNF94 Sel	----	477	2751	661	3890
Wren's Abruzzi AL	----	1092	2040	637	3769
<i>Triticale</i>					
Trical 2700	----	1069	2443	647	4159
Trical 336	----	485	2673	620	3778
Trical 308	----	1083	1887	728	3699
FL 91142-A19	----	1141	2042	497	3680
Trical 2115	----	845	1696	557	3098
FL 94128-Y1-A8	----	1115	1437	490	3043
Trical 314	----	692	1607	617	2916
<i>Test Mean</i>	----	883	2221	683	3787
<i>C.V. (%)</i>	----	34	9	18	9
<i>LSD(0.10)</i>	----	486	281	151	554

TABLE 2. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER, BELLE MINA, ALABAMA, 2003-2004

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	----	471	2499	470	3441
<i>Oat</i>					
FL 9708-P37	----	387	3005	747	4139
Harrison	----	481	2988	596	4066
TX01CSRH Sel 1	----	292	2933	781	4007
Horizon 314	----	374	2842	670	3886
Horizon 474	----	485	2891	478	3853
<i>Rye</i>					
Wintergrazer 70	----	719	3464	554	4737
FLNF94 Sel	----	571	2961	464	3995
FL PL97P20	----	1055	2246	529	3830
Wren's Abruzzi AL	----	1023	2125	523	3670
<i>Triticale</i>					
Trical 2700	----	765	3029	483	4277
Trical 336	----	336	3303	603	4242
Trical 308	----	900	2153	683	3736
Trical 2115	----	706	1966	514	3187
Trical 314	----	732	1715	524	2972
<i>Test Mean</i>	----	620	2675	575	3869
<i>C.V. (%)</i>	----	43	8	17	8
<i>LSD(0.10)</i>	----	239	198	74	334

TABLE 3. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER, BELLE MINA, ALABAMA, 2002-2004

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	----	643	2053	555	3251
<i>Oat</i>					
Harrison	----	722	2147	758	3628
Horizon 314	----	578	2194	791	3563
Horizon 474	----	738	2084	691	3513
<i>Rye</i>					
Wintergrazer 70	----	994	3040	689	4220
Wren's Abruzzi AL	----	1133	1627	623	3383
<i>Triticale</i>					
Trical 2700	----	1026	2316	733	4075
Trical 336	----	624	2732	716	4072
Trical 308	----	1106	1635	818	3558
Trical 314	----	918	1303	598	2819
<i>Test Mean</i>	----	848	2113	697	3608
<i>C.V. (%)</i>	----	27	23	19	8
<i>LSD(0.10)</i>	----	167	310	81	247

TABLE 4. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE SAND MOUNTAIN RESEARCH AND EXTENSION CENTER, CROSSVILLE, ALABAMA, 2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
Wheat					
Roberts	----	755	5720	2544	9020
Jackson	----	419	5746	2413	8577
Oat					
Walken	----	395	7146	3447	10988
Horizon 474	----	561	6435	2610	9605
FL 9708-P37	----	406	5890	2947	9242
Harrison	----	496	6236	2360	9092
TX01CSRH Sel 1	----	264	5732	2536	8533
Horizon 314	----	348	5282	2559	8190
Magnum 2000	----	1033	4089	2577	7699
Rye					
Wintergrazer 70	----	368	9261	2396	12025
FL PL97P20	----	2675	6374	2674	11723
Wren's Abruzzi AL	----	2009	6473	2744	11225
FLNF94 Sel	----	329	7492	2535	10356
Triticale					
Trical 2700	----	940	6739	3074	10753
Trical 336	----	256	6857	2398	9511
Trical 308	----	1021	5556	2269	8845
FL 91142-A19	----	1505	4693	2269	8467
Trical 2115	----	882	4817	2503	8202
FL 94128-Y1-A8	----	1487	4183	1898	7568
Trical 314	----	951	3984	1842	6777
Test Mean	----	855	5935	2530	9320
C.V. (%)	----	17	7	13	6
LSD(0.10)	----	186	471	394	683

TABLE 5. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE SAND MOUNTAIN RESEARCH AND EXTENSION CENTER, CROSSVILLE, ALABAMA, 2003-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	----	755	3914	2295	6964
<i>Oat</i>					
Horizon 474	----	561	4500	1887	6947
FL 9708-P37	----	406	4180	2265	6851
Harrison	----	496	4487	1891	6874
TX01CSRH Sel 1	----	264	4245	2045	6554
Horizon 314	----	348	3797	2017	6162
<i>Rye</i>					
Wintergrazer 70	----	368	6613	1642	8623
FL PL97P20	----	2675	5184	1734	9594
Wren's Abruzzi AL	----	2009	5186	1804	8999
FLNF94 Sel	----	329	5618	1569	7516
<i>Triticale</i>					
Trical 2700	----	940	5300	2725	8965
Trical 336	----	256	5088	2212	7556
Trical 308	----	1021	4331	2079	7431
Trical 2115	----	882	3786	2439	7106
Trical 314	----	951	3430	1781	5794
<i>Test Mean</i>	----	817	4644	2026	7487
<i>C.V. (%)</i>	----	18	8	18	8
<i>LSD(0.10)</i>	----	159	285	273	451

TABLE 6. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE SAND MOUNTAIN RESEARCH AND EXTENSION CENTER, CROSSVILLE, ALABAMA, 2002-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	108	637	3149	1530	5424
<i>Oat</i>					
Harrison	128	681	3376	1261	5446
Horizon 474	140	619	3400	1258	5417
Horizon 314	71	619	3020	1344	5055
<i>Rye</i>					
Wintergrazer 70	114	988	4821	1095	7018
Wren's Abruzzi AL	176	1358	3777	1202	6514
<i>Triticale</i>					
Trical 2700	166	741	4133	1817	6856
Trical 336	58	498	4161	1475	6192
Trical 308	164	849	3206	1386	5605
Trical 314	248	783	2608	1188	4827
<i>Test Mean</i>	137	777	3565	1356	5835
<i>C.V. (%)</i>	84	41	16	24	10
<i>LSD(0.10)</i>	79	193	343	196	371

TABLE 7. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE BLACK BELT RESEARCH AND EXTENSION CENTER, MARION JUNCTION, ALABAMA, 2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	----	----	938	3970	4908
Jackson	----	----	487	3929	4416
<i>Oat</i>					
Horizon 474	----	----	640	4414	5054
Harrison	----	----	596	4206	4803
Horizon 314	----	----	448	4122	4571
TX01CSRH Sel 1	----	----	675	3660	4335
FL 9708-P37	----	----	378	3708	4086
Walken	----	----	468	3536	4004
Magnum 2000	----	----	1282	2473	3756
<i>Rye</i>					
Wren's Abruzzi AL	----	----	1893	3377	5270
FL PL97P20	----	----	1380	3847	5227
FLNF94 Sel	----	----	821	3783	4604
Wintergrazer 70	----	----	520	3515	4035
<i>Triticale</i>					
FL 91142-A19	----	----	1398	3464	4863
Trical 308	----	----	1503	3254	4757
FL 94128-Y1-A8	----	----	1576	2967	4543
Trical 2115	----	----	1202	3289	4490
Trical 336	----	----	624	3832	4456
Trical 2700	----	----	702	3553	4255
Trical 314	----	----	1109	1409	2519
<i>Test Mean</i>	----	----	932	3515	4447
<i>C.V. (%)</i>	----	----	19	10	10
<i>LSD(0.10)</i>	----	----	226	426	555

TABLE 8. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE BLACK BELT RESEARCH AND EXTENSION CENTER, MARION JUNCTION, ALABAMA, 2003-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	----	508	1971	2158	4637
<i>Oat</i>					
Horizon 474	----	890	1576	2605	5071
Harrison	----	720	1380	2522	4623
TX01CSRH Sel 1	----	475	1359	2422	4256
FL 9708-P37	----	637	1197	2460	4294
Horizon 314	----	645	1088	2555	4287
<i>Rye</i>					
FL PL97P20	----	738	2311	----	3049
Wren's Abruzzi AL	----	349	2421	----	2770
FLNF94 Sel	----	318	1956	----	2274
Wintergrazer 70	----	198	1500	----	1698
<i>Triticale</i>					
Trical 308	----	1225	2063	----	3288
Trical 336	----	494	1760	2131	4385
Trical 2115	----	1184	1796	----	2980
Trical 2700	----	770	1543	1945	4257
Trical 314	----	1541	1730	----	3271
<i>Test Mean</i>	----	713	1710	2350	3607
<i>C.V. (%)</i>	----	29	13	11	9
<i>LSD(0.10)</i>	----	250	228	208	313

TABLE 9. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE BLACK BELT RESEARCH AND EXTENSION CENTER, MARION JUNCTION, ALABAMA, 2002-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	----	947	2277	1439	4664
<i>Oat</i>					
Horizon 474	----	1167	1211	1737	4115
Harrison	----	1177	1055	1682	3914
Horizon 314	----	1009	1015	1703	3728
<i>Rye</i>					
Wren's Abruzzi AL	----	1297	1967	1126	4390
Wintergrazer 70	----	1071	1501	1172	3743
<i>Triticale</i>					
Trical 336	----	911	2068	1421	4400
Trical 308	----	1313	1490	1085	3887
Trical 2700	----	1154	1392	1297	3843
Trical 314	----	1680	1362	470	3511
<i>Test Mean</i>	----	1173	1534	1313	4019
<i>C.V. (%)</i>	----	25	33	27	10
<i>LSD(0.10)</i>	----	177	309	216	272

TABLE 10. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE PRATTVILLE EXPERIMENT FIELD, PRATTVILLE, ALABAMA, 2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
Wheat					
Roberts	----	623	2586	----	3209
Jackson	----	359	2764	----	3123
Oat					
Magnum 2000	----	1505	2586	----	4091
Walken	----	699	3164	----	3863
Horizon 474	----	417	3098	----	3515
Harrison	----	495	2826	----	3321
Horizon 314	----	433	2834	----	3267
FL 9708-P37	----	511	2519	----	3030
TX01CSRH Sel 1	----	379	2182	----	2561
Rye					
FL PL97P20	----	1919	3275	----	5194
Wren's Abruzzi AL	----	1656	3052	----	4708
FLNF94 Sel	----	1297	3258	----	4555
Wintergrazer 70	----	971	3155	----	4125
Triticale					
FL 94128-Y1-A8	----	2012	2774	----	4786
Trical 2700	----	1509	3026	----	4535
FL 91142-A19	----	1772	2657	----	4430
Trical 2115	----	1188	3037	----	4224
Trical 308	----	1292	2895	----	4187
Trical 314	----	1311	2434	----	3745
Trical 336	----	603	2663	----	3267
Test Mean	----	1048	2839	----	3887
C.V. (%)	----	28	22	----	18
LSD(0.10)	----	442	724	----	856

TABLE 11. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE PRATTVILLE EXPERIMENT FIELD, PRATTVILLE, ALABAMA, 2003-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
Wheat					
Roberts	628	1290	2051	1706	5675
Oat					
FL 9708-P37	771	809	1990	4374	7945
Horizon 314	713	781	2120	3665	7279
Horizon 474	1019	727	2275	2655	6676
Harrison	582	915	2093	2606	6197
TX01CSRH Sel 1	308	585	1771	3849	6513
Rye					
FL PL97P20	1602	2243	2223	1221	7288
Wren's Abruzzi AL	1849	2077	2057	1247	7229
Wintergrazer 70	1838	1046	2577	1456	6917
FLNF94 Sel	1052	1740	2441	993	6226
Triticale					
Trical 2700	993	1655	2148	1951	6747
Trical 308	1054	1621	1980	2173	6829
Trical 2115	767	1442	2057	2219	6483
Trical 314	982	1370	1719	1953	6023
Trical 336	484	1279	2201	1443	5407
Test Mean	976	1305	2113	2234	6629
C.V. (%)	29	22	22	17	13
LSD(0.10)	334	302	362	412	562

TABLE 12. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE PRATTVILLE EXPERIMENT FIELD, PRATTVILLE, ALABAMA, 2002-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	209	1443	1832	569	4052
<i>Oat</i>					
Horizon 314	238	1247	1765	1222	4470
Horizon 474	340	1385	1815	885	4424
Harrison	194	1444	1715	869	4222
<i>Rye</i>					
Wren's Abruzzi AL	616	2499	2094	416	5625
Wintergrazer 70	613	1634	2325	485	5057
<i>Triticale</i>					
Trical 2700	331	2229	1847	650	5057
Trical 308	351	2033	1532	724	4640
Trical 336	161	1671	2118	481	4431
Trical 314	327	1840	1386	651	4204
<i>Test Mean</i>	338	1742	1843	695	4618
<i>C.V. (%)</i>	61	20	23	40	13
<i>LSD(0.10)</i>	134	315	269	170	466

TABLE 13. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE E.V. SMITH RESEARCH CENTER, PLANT BREEDING UNIT, TALLASSEE, ALABAMA, 2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
Wheat					
Roberts	627	529	988	999	2477
Jackson	222	326	605	----	1153
Oat					
FL 9708-P37	906	735	698	1198	3138
Harrison	715	677	587	1107	3087
Horizon 474	1046	825	664	1217	2941
Magnum 2000	1199	542	392	1030	2820
Walken	741	437	601	1021	2800
Horizon 314	669	525	651	1199	2644
TX01CSRH Sel 1	755	558	516	----	1830
Rye					
Wren's Abruzzi AL	1036	1484	791	850	4161
Wintergrazer 70	804	398	1573	1058	3833
FL PL97P20	882	1193	1026	720	3581
FLNF94 Sel	479	510	1393	893	3276
Triticale					
Trical 2700	690	760	841	1127	3418
Trical 308	749	1049	439	1101	2604
FL 91142-A19	420	1061	420	----	1902
FL 94128-Y1-A8	500	968	433	----	1901
Trical 314	652	791	358	----	1802
Trical 336	210	478	673	1167	1751
Trical 2115	472	695	518	----	1685
Test Mean	689	727	708	1049	2640
C.V. (%)	15	24	17	----	17
LSD(0.10)	146	264	492	----	626

TABLE 14. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE E.V. SMITH RESEARCH CENTER, PLANT BREEDING UNIT, TALLASSEE, ALABAMA, 2003-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	353	480	1102	668	2603
<i>Oat</i>					
Horizon 474	817	832	1136	724	3509
FL 9708-P37	611	625	1252	801	3289
Harrison	530	724	955	711	2920
Horizon 314	495	626	1136	765	3023
TX01CSRH Sel 1	493	623	1048	----	2164
<i>Rye</i>					
Wren's Abruzzi AL	720	1688	785	----	3193
Wintergrazer 70	653	621	1788	----	3062
FL PL97P20	640	1534	963	----	3137
FLNF94 Sel	435	983	1443	----	2861
<i>Triticale</i>					
Trical 2700	435	805	1125	749	3113
Trical 308	515	1025	646	----	2187
Trical 336	156	676	1032	761	2624
Trical 2115	341	736	664	----	1742
Trical 314	486	734	475	----	1695
<i>Test Mean</i>	512	848	1037	740	2741
<i>C.V. (%)</i>	16	27	24	18	17
<i>LSD(0.10)</i>	104	171	272	141	372

TABLE 15. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE E.V. SMITH RESEARCH CENTER, PLANT BREEDING UNIT, TALLASSEE, 2003-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	456	661	1625	223	2965
<i>Oat</i>					
Horizon 474	683	1000	1476	212	3371
Harrison	472	906	1304	474	3157
Horizon 314	419	797	1376	377	2969
<i>Rye</i>					
Wintergrazer 70	678	1023	2034	353	4087
Wren's Abruzzi AL	732	1726	1192	283	3934
<i>Triticale</i>					
Trical 2700	460	1033	1618	499	3611
Trical 308	571	1205	918	122	2817
Trical 336	186	689	1654	248	2776
Trical 314	514	895	812	0	2221
<i>Test Mean</i>	517	994	1401	279	3191
<i>C.V. (%)</i>	22	25	22	105	15
<i>LSD(0.10)</i>	81	150	199	192	284

TABLE 16. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE BREWTON EXPERIMENT FIELD, BREWTON, ALABAMA, 2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	1181	1433	2266	----	4879
Jackson	1001	1444	2123	----	4568
<i>Oat</i>					
TX01CSRH Sel 1	1072	982	4910	----	6964
FL 9708-P37	1198	1287	2279	----	4765
Horizon 474	1243	1159	2280	----	4682
Harrison	1064	1332	1972	----	4368
Horizon 314	1089	1159	2048	----	4296
Walken	970	1148	1711	----	3829
Magnum 2000	1048	745	1055	----	2848
<i>Rye</i>					
FLNF94 Sel	826	1342	2852	----	5021
Wintergrazer 70	1239	1005	2678	----	4923
Wren's Abruzzi AL	1302	1643	1659	----	4604
FL PL97P20	1130	1472	1947	----	4549
<i>Triticale</i>					
Trical 336	1015	1268	2626	----	4909
Trical 2700	1396	1562	1794	----	4752
FL 91142-A19	1004	2064	1340	----	4409
FL 94128-Y1-A8	1216	1691	1298	----	4205
Trical 308	1020	1627	1504	----	4201
Trical 2115	1145	1603	1266	----	4014
Trical 314	944	1532	1417	----	3893
<i>Test Mean</i>	1105	1375	2051	----	4534
<i>C.V. (%)</i>	12	10	56	----	27
<i>LSD(0.10)</i>	153	157	1383	----	1456

TABLE 17. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE BREWTON EXPERIMENT FIELD, BREWTON, ALABAMA, 2003-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	793	1373	1862	----	4029
<i>Oat</i>					
TX01CSRH Sel 1	947	1146	3103	----	5196
FL 9708-P37	954	1225	1735	----	3915
Horizon 474	960	1189	1759	----	3908
Horizon 314	869	1177	1650	----	3696
Harrison	906	1140	1582	----	3628
<i>Rye</i>					
Wintergrazer 70	1107	1507	1781	----	4395
FLNF94 Sel	852	1747	1700	----	4299
Wren's Abruzzi AL	1164	1642	1376	----	4182
FL PL97P20	1152	1359	1597	----	4107
<i>Triticale</i>					
Trical 336	700	1417	1795	----	3912
Trical 308	863	1624	1138	----	3625
Trical 2115	844	1590	1179	----	3613
Trical 2700	1013	1444	1118	----	3576
Trical 314	854	1494	974	----	3322
<i>Test Mean</i>	932	1405	1623	----	3960
<i>C.V. (%)</i>	20	16	58	----	25
<i>LSD(0.10)</i>	148	182	743	----	826

TABLE 18. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE BREWTON EXPERIMENT FIELD, BREWTON, ALABAMA, 2002-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	1146	1173	1939	----	4257
<i>Oat</i>					
Horizon 474	1449	882	1643	----	3974
Horizon 314	1512	926	1529	----	3966
Harrison	1236	852	1542	----	3631
<i>Rye</i>					
Wintergrazer 70	1579	1292	1803	----	4674
Wren's Abruzzi AL	1485	1382	1506	----	4373
<i>Triticale</i>					
Trical 336	1135	1195	2065	----	4395
Trical 2700	1383	1205	1352	----	3940
Trical 314	1410	1192	1031	----	3633
Trical 308	1222	1074	1057	----	3353
<i>Test Mean</i>	1356	1117	1547	----	4020
<i>C.V. (%)</i>	31	25	23	----	16
<i>LSD(0.10)</i>	294	171	221	----	465

TABLE 19. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE WIREGRASS RESEARCH AND EXTENSION CENTER, HEADLAND, ALABAMA, 2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
Wheat					
Roberts	1802	898	2582	----	5281
Jackson	1199	814	2182	----	4195
Oat					
Horizon 474	2007	732	2718	----	5457
FL 9708-P37	1637	600	2803	----	5040
TX01CSRH Sel 1	1423	589	2993	----	5005
Harrison	1233	538	2960	----	4731
Magnum 2000	2897	486	1322	----	4704
Horizon 314	1478	798	2355	----	4631
Walken	1421	565	2532	----	4518
Rye					
Wintergrazer 70	1616	615	4316	----	6547
Wren's Abruzzi AL	2543	1844	1961	----	6347
FLNF94 Sel	686	1514	4025	----	6224
FL PL97P20	1666	1871	2564	----	6100
Triticale					
FL 91142-A19	1987	2064	1606	----	5656
Trical 2700	2145	1552	1952	----	5649
Trical 308	2097	1653	1592	----	5342
Trical 336	1064	1154	2886	----	5105
Trical 314	2099	1315	1540	----	4955
FL 94128-Y1-A8	1988	1705	1134	----	4827
Trical 2115	1837	1364	1367	----	4568
Test Mean	1741	1134	2370	----	5244
C.V. (%)	18	14	8	----	7
LSD(0.10)	376	204	213	----	450

TABLE 20. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE WIREGRASS RESEARCH AND EXTENSION CENTER, HEADLAND, 2003-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	1802	993	3185	----	5980
<i>Oat</i>					
Horizon 474	2007	860	3602	----	6469
Harrison	1233	856	3812	----	5901
FL 9708-P37	1637	692	3734	----	6063
TX01CSRH Sel 1	1423	709	3661	----	5793
Horizon 314	1478	713	3130	----	5321
<i>Rye</i>					
Wintergrazer 70	1616	992	4617	----	7225
FLNF94 Sel	686	1794	3775	----	6255
FL PL97P20	1666	2285	2678	----	6629
Wren's Abruzzi AL	2543	2176	2324	----	7043
<i>Triticale</i>					
Trical 2700	2145	1649	2820	----	6614
Trical 308	2097	1766	2171	----	6034
Trical 336	1064	1046	3251	----	5361
Trical 314	2099	1326	1730	----	5155
Trical 2115	1837	1353	1801	----	4991
<i>Test Mean</i>	1689	1281	3086	----	6056
<i>C.V. (%)</i>	19	20	9	----	8
<i>LSD(0.10)</i>	353	189	213	----	326

TABLE 21. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE WIREGRASS RESEARCH AND EXTENSION CENTER, HEADLAND, 2002-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	824	998	3437	----	5259
<i>Oat</i>					
Horizon 474	986	816	3428	----	5230
Harrison	648	827	3525	----	4999
Horizon 314	734	738	3229	----	4701
<i>Rye</i>					
Wintergrazer 70	852	1124	4441	----	6417
Wren's Abruzzi AL	1214	1913	2586	----	5713
<i>Triticale</i>					
Trical 2700	1056	1477	2639	----	5173
Trical 336	528	1012	3303	----	4842
Trical 308	1048	1580	1904	----	4531
Trical 314	1097	1237	1578	----	3913
<i>Test Mean</i>	899	1172	3007	----	5078
<i>C.V. (%)</i>	30	24	17	----	10
<i>LSD(0.10)</i>	166	168	346	----	377

TABLE 22. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE GULF COAST RESEARCH AND EXTENSION CENTER, FAIRHOPE, ALABAMA, 2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Jackson	1726	1565	2624	----	5915
Roberts	1710	1035	2114	----	4859
<i>Oat</i>					
Harrison	2065	1027	2940	----	6032
Horizon 314	1445	1433	3093	----	5970
TX01CSRH Sel 1	1880	1577	2258	----	5714
Horizon 474	1804	1422	2487	----	5712
Walken	1553	1384	2753	----	5690
Magnum 2000	1678	1234	2427	----	5339
FL 9708-P37	1684	1312	2058	----	5054
<i>Rye</i>					
FL PL97P20	1956	1213	3713	----	6881
Wren's Abruzzi AL	1980	1172	3020	----	6171
FLNF94 Sel	1683	1217	3220	----	6120
Wintergrazer 70	2020	1060	2876	----	5957
<i>Triticale</i>					
Trical 2115	2067	1108	3985	----	7160
FL 91142-A19	1822	1118	3673	----	6613
FL 94128-Y1-A8	1896	1083	3466	----	6445
Trical 2700	1829	1247	3308	----	6384
Trical 336	2313	1111	2831	----	6255
Trical 314	2001	972	2829	----	5802
Trical 308	1661	991	3145	----	5797
<i>Test Mean</i>	1839	1214	2941	----	5994
<i>C.V. (%)</i>	19	22	31	----	15
<i>LSD(0.10)</i>	421	318	1066	----	1080

TABLE 23. TWO-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT GULF COAST RESEARCH AND EXTENSION CENTER, FAIRHOPE, ALABAMA, 2003-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	1710	1895	2214	----	5819
<i>Oat</i>					
FL 9708-P37	1684	2983	2745	----	7413
Horizon 474	1804	2711	2699	----	7213
Horizon 314	1445	2413	3026	----	6884
TX01CSRH Sel 1	1880	2496	2711	----	7086
Harrison	2065	2140	2804	----	7008
<i>Rye</i>					
FLNF94 Sel	1683	3040	2338	----	7061
FL PL97P20	1956	2546	2481	----	6983
Wren's Abruzzi AL	1980	2618	2239	----	6837
Wintergrazer 70	2020	2151	2495	----	6667
<i>Triticale</i>					
Trical 336	2313	2522	2420	----	7255
Trical 2115	2067	2083	2872	----	7023
Trical 2700	1829	2282	2708	----	6819
Trical 308	1661	2059	2463	----	6183
Trical 314	2001	1869	2203	----	6074
<i>Test Mean</i>	1873	2387	2561	----	6822
<i>C.V. (%)</i>	20	26	27	----	13
<i>LSD(0.10)</i>	400	493	526	----	692

TABLE 24. THREE-YEAR AVERAGE SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE GULF COAST RESEARCH AND EXTENSION CENTER, FAIRHOPE, ALABAMA, 2002-2004.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----- lbs/acre -----				
<i>Wheat</i>					
Roberts	885	2238	2500	----	5623
<i>Oat</i>					
Horizon 474	1462	2569	2949	----	6980
Horizon 314	1013	2614	3171	----	6799
Harrison	1238	2382	2911	----	6531
<i>Rye</i>					
Wren's Abruzzi AL	1159	2476	2294	----	5929
Wintergrazer 70	1109	2203	2465	----	5776
<i>Triticale</i>					
Trical 336	920	2346	2480	----	5747
Trical 2700	888	2180	2468	----	5537
Trical 308	849	2023	2334	----	5206
Trical 314	1005	1742	2221	----	4967
<i>Test Mean</i>	1053	2277	2579	----	5910
<i>C.V. (%)</i>	42	16	23	----	15
<i>LSD(0.10)</i>	283	228	360	----	576

SEED SOURCES**WHEAT**

Roberts

Univ. of Georgia, Georgia Station
Griffin, Georgia

Jackson

Alabama Crop Improvement Assn.
Auburn, Alabama**OATS**Horizon 314,
Horizon 474, FL 9708-P37*University of Florida
Quincy, Florida

Harrison

Arkansas County Seed Co.
Stuttgart, Arkansas

TX01CSRH Sel 1*

Texas A&M University
College Station, TexasMagnum 2000
WalkerPennington Seed, Inc.
Madison, Georgia**RYE**

Wren's Abruzzi AL

Alabama Crop Improvement Assoc.
Auburn, Alabama

Wintergrazer 70

Pennington Seed, Inc.
Madison, Georgia

FL PL97P20*, FLNF 94 Sel*,

University of Florida
Quincy, Florida**TRITICALE**Trical 2115, Trical 336, Trical 2700
Trical 314 (formerly RSI Exp 314),
Trical 308 (formerly RSI Exp 351)Resource Seeds, Inc.
Union, KentuckyFL 91142-A19*
FL 94128-Y1-A8*University of Florida
Quincy, Florida

* Experimental line; not yet commercially available.