Performance of Small Grain Varieties for Forage in Alabama, 2004-05

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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, 2005

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----------	----------	lbs/acre	----------	----------
Wheat					
Jackson	----	----	1979	2138	4117
GA Gore	----	----	2303	1311	3614
SS MPV 57	----	----	1675	1712	3388
Oat					
Harrison	----	----	1407	3091	4498
SS 76-40	----	----	1673	2706	4379
SC 961246	----	----	1264	2667	3931
Magnum 2000	----	----	230	1198	1427
Rye					
Wintergrazer 70	----	----	2031	2071	4102
Oklon	----	----	2783	1244	4027
Bates	----	----	2640	1274	3914
Elbon	----	----	1995	1902	3896
Maton	----	----	2097	1539	3636
Wren's Abruzzi AL	----	----	2518	1097	3614
AGS 104	----	----	2462	1038	3499
NF 65	----	----	2243	1102	3344
FL 96RP16-34-1	----	----	2236	1072	3308
Boss	----	----	2246	1052	3298
Triticale					
Trical 2700	----	----	1704	3232	4937
RSI OIT60042	----	----	1646	2786	4432
Trical 815	----	----	1253	2872	4125
Trical 336	----	----	1906	1964	3870
RSI 342	----	----	1980	1712	3692
Trical 2115	----	----	1710	1893	3603
Monarch	----	----	2179	1144	3323
Trical 308	----	----	2035	1161	3197
Trical 498	----	----	2001	934	2935
Test Mean	----	----	1931	1766	3696
C.V. (%)	----	----	12	15	10
LSD(0.10)	----	----	257	285	401

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, 2004-2005

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Wheat					
Jackson	----	861	2226	1291	4377
Oat					
Harrison	----	830	2084	1982	4896
Magnum 2000	----	1355	299	714	2368
Rye					
Wintergrazer 70	----	993	2565	1428	4985
AGS 104	----	1101	2318	840	4259
Wren's Abruzzi AL	----	1092	2279	867	4238
Boss	----	477	2499	857	3832
Triticale					
Trical 2700	----	1069	2073	1940	5082
RSI 342	----	1141	2011	1104	4257
Trical 336	----	485	2290	1292	4067
Trical 308	----	1083	1961	945	3990
Trical 2115	----	845	1703	1225	3773
Monarch	----	1115	1808	817	3741
Test Mean	----	958	2009	1177	4143
C.V. (%)	----	31	10	17	8
LSD(0.10)	----	452	152	160	274

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, 2003-2005

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----------	----------	lbs/acre	----------	----------
Oat					
Harrison	----	481	2461	1428	4370
Rye					
Wintergrazer 70	----	720	2987	1060	4767
AGS 104	----	1055	2318	699	4071
Wren's Abruzzi AL	----	1023	2256	714	3993
Boss	----	571	2722	660	3953
Triticale					
Trical 2700	----	765	2588	1400	4752
Trical 336	----	336	2838	1057	4230
Trical 308	----	900	2114	843	3856
Trical 2115	----	706	1881	974	3561
Test Mean	----	729	2463	981	4173
C.V. (%)	----	38	9	16	8
LSD(0.10)	----	258	135	94	226

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, 2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Wheat					
SS MPV 57	----	1152	2878	5585	9615
Jackson	----	1162	2714	4981	8857
GA Gore	----	1404	2514	4823	8741
Oat					
SC 961246	----	916	2492	8265	11674
SS 76-40	----	888	2553	7672	11113
Harrison	----	882	2113	5949	8944
Magnum 2000	----	338	0	0	338
Rye					
Wintergrazer 70	----	1485	3389	8225	13099
Maton	----	1693	3576	7710	12979
Oklon	----	1709	2993	8005	12707
Elbon	----	1466	3539	7685	12690
Bates	----	2296	2720	6621	11637
AGS 104	----	1501	1890	8135	11526
Wren's Abruzzi AL	----	1317	1536	8431	11284
FL 96RP16-34-1	----	1707	2141	7096	10944
NF 65	----	1943	2803	6166	10912
Boss	----	1939	2025	6685	10649
Triticale					
Trical 2700	----	1252	3296	9967	14515
Trical 815	----	726	3592	7626	11945
RSI 342	----	1497	2125	7766	11387
Trical 336	----	1540	3884	5937	11361
RSI OIT60042	----	1300	2385	7667	11353
Trical 2115	----	1066	1809	8401	11276
Trical 498	----	1165	1415	7023	9603
Monarch	----	1433	1574	6257	9263
Trical 308	----	1171	951	5936	8057
Test Mean	----	1344	2419	6870	10633
C.V. (%)	----	18	11	12	8
LSD(0.10)	----	261	291	1031	1036

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, 2004-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----------	----------	lbs/acre	----------	----------
Wheat					
Jackson	----	790	4230	3697	8717
Oat					
Harrison	----	689	4174	4155	9018
Magnum 2000	----	686	2045	1288	4018
Rye					
Wintergrazer 70	----	927	6325	5310	12562
AGS 104	----	2088	4132	5405	11625
Wren's Abruzzi AL	----	1663	4004	5587	11254
Boss	----	1134	4758	4610	10502
Triticale					
Trical 2700	----	1096	5017	6521	12634
Trical 336	----	898	5370	4167	10436
RSI 342	----	1501	3409	5017	9927
Trical 2115	----	974	3313	5452	9739
Trical 308	----	1096	3253	4102	8451
Monarch	----	1460	2879	4077	8416
Test Mean	----	1154	4070	4568	9792
C.V. (%)	----	17	7	15	7
LSD(0.10)	----	149	222	597	619

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, 2003-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Oat					
Harrison	----	689	3696	3244	7628
Rye					
Wintergrazer 70	----	927	5538	3837	10301
AGS 104	----	2088	4086	3868	10042
Wren's Abruzzi AL	----	1663	3969	4013	9645
Boss	----	1134	4420	3274	8829
Triticale					
Trical 2700	----	1096	4632	5139	10867
Trical 336	----	898	4686	3454	9038
Trical 2115	----	974	3127	4426	8527
Trical 308	----	1096	3205	3364	7665
Test Mean	----	1174	4151	3847	9171
C.V. (%)	----	17	7	17	8
LSD(0.10)	----	150	181	489	547

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, 2005.

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, 2004-2005.

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, 2003-2005.

THE 2005 TRIAL COULD NOT BE SEEDED AT THIS LOCATION BECAUSE OF EXCESSIVE RAINFALL

TABLE 10. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE PRATTVILLE EXPERIMENT FIELD, PRATTVILLE, ALABAMA, 2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	----------	----------	lbs/acre ----------	----------	----------
Wheat					
GA Gore	----	1592	3142	----	4734
Jackson	----	1407	3024	----	4430
Oat					
Harrison	----	1109	2065	----	3174
Magnum 2000	----	2047	0	----	2047
Rye					
Wren's Abruzzi AL	----	3221	2418	----	5639
Bates	----	2534	2857	----	5391
AGS 104	----	2928	2337	----	5265
Maton	----	1895	3335	----	5229
Boss	----	2458	2726	----	5185
Elbon	----	1915	3191	----	5105
Oklon	----	2223	2769	----	4992
FL 96RP16-34-1	----	2316	2627	----	4943
Wintergrazer 70	----	1712	3092	----	4804
NF 65	----	1926	2793	----	4719
Triticale					
Trical 2700	----	1980	2436	----	4416
Trical 336	----	1299	3089	----	4388
Trical 815	----	671	3535	----	4205
RSI 342	----	2028	1880	----	3908
Monarch	----	2109	1745	----	3854
RSI OIT60042	----	1482	1997	----	3479
Trical 308	----	1658	1732	----	3390
Trical 2115	----	1371	1786	----	3157
Trical 498	----	1706	1239	----	2945
Test Mean	----	1895	2427	----	4322
C.V. (%)	----	21	9	----	12
LSD(0.10)	----	419	259	----	555

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, 2004-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Wheat					
Jackson	----	883	2894	----	3777
Oat					
Harrison	----	802	2445	----	3247
Magnum 2000	----	1776	1293	----	3069
Rye					
AGS 104	----	2424	2806	----	5229
Wren's Abruzzi AL	----	2438	2735	----	5174
Boss	----	1878	2992	----	4870
Wintergrazer 70	----	1341	3123	----	4465
Triticale					
Trical 2700	----	1744	2731	----	4475
Monarch	----	2060	2260	----	4320
RSI 342	----	1900	2269	----	4169
Trical 336	----	951	2876	----	3827
Trical 308	----	1475	2314	----	3789
Trical 2115	----	1279	2411	----	3691
Test Mean	----	1612	2550	----	4162
C.V. (%)	----	25	16	----	15
LSD(0.10)	----	317	315	----	475

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, 2003-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Oat					
Harrison	582	980	2084	2606	6252
Rye					
Wren's Abruzzi AL	1849	2458	2177	1247	7731
AGS 104	1602	2471	2261	1221	7554
Wintergrazer 70	1838	1268	2749	1456	7311
Boss	1052	1979	2536	993	6561
Triticale					
Trical 2700	993	1763	2244	1951	6951
Trical 308	1054	1634	1897	2173	6758
Trical 2115	767	1418	1966	2219	6370
Trical 336	484	1286	2497	1443	5710
Test Mean	1136	1695	2268	1701	6800
C.V. (%)	27	23	16	19	13
LSD(0.10)	347	278	251	355	433

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, 2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Wheat					
GA Gore	418	538	1007	772	2734
Jackson	375	353	725	519	1972
Oat					
Harrison	656	520	687	745	2608
Magnum 2000	926	306	361	727	2319
Rye					
Maton	714	1318	1639	923	4594
Wintergrazer 70	1081	762	1537	995	4374
Oklon	850	1196	1521	740	4308
Boss	1326	1128	1296	473	4223
Elbon	594	909	1642	899	4045
FL 96RP16-34-1	760	1212	1434	580	3985
NF 65	714	1227	1343	571	3855
Bates	669	1117	1300	683	3769
Wren's Abruzzi AL	826	1228	952	509	3516
AGS 104	1176	1113	894	319	3503
Triticale					
Trical 2700	482	806	837	617	2742
RSI 342	564	950	558	549	2621
RSI OIT60042	512	869	568	563	2511
Trical 815	128	429	1138	636	2330
Trical 336	315	413	992	584	2304
Monarch	703	859	301	394	2258
Trical 308	511	669	423	494	2097
Trical 2115	498	601	410	588	2096
Trical 498	408	421	305	343	1477
Test Mean	661	824	951	618	3054
C.V. (%)	45	20	13	18	10
LSD(0.10)	377	216	128	117	420

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, 2004-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Wheat					
Jackson	298	340	665	259	1562
Oat					
Harrison	685	599	637	926	2848
Magnum 2000	1062	424	376	706	2569
Rye					
Wintergrazer 70	942	580	1555	1026	4104
Wren's Abruzzi AL	931	1356	872	680	3839
Boss	903	819	1345	683	3750
AGS 104	1029	1153	960	399	3542
Triticale					
Trical 2700	586	783	839	872	3080
Trical 308	630	859	431	431	2351
RSI 342	492	1006	489	274	2261
Monarch	601	914	367	197	2079
Trical 336	263	445	833	487	2027
Trical 2115	485	648	464	294	1890
Test Mean	685	763	756	557	2762
C.V. (%)	42	19	33	46	12
LSD(0.10)	292	168	277	193	436

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, 2003-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Oat					
Harrison	572	656	866	723	2816
Rye					
Wintergrazer 70	796	668	1704	684	3852
Boss	732	1031	1394	456	3613
Wren's Abruzzi AL	755	1535	841	453	3584
AGS 104	819	1394	940	266	3419
Triticale					
Trical 2700	450	805	1029	705	2989
Trical 308	514	906	572	287	2279
Trical 336	209	588	1019	442	2258
Trical 2115	394	691	579	196	1860
Test Mean	582	919	994	468	2963
C.V. (%)	52	22	26	47	14
LSD(0.10)	241	129	218	137	357

TABLE 16. SEASONAL DRY MATTER YIELD OF WHEAT, OATS, RYE, AND TRITICALE VARIETIES CUT AS FORAGE AT THE BREWTON EXPERIMENT FIELD, BREWTON, ALABAMA, 2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Wheat					
GA Gore	----	1407	2159	----	3566
Jackson	----	1465	1946	----	3411
AGS 2000	----	1300	1815	----	3115
Oat					
Harrison	----	1083	1962	----	3045
Magnum 2000	----	1337	1688	----	3024
Rye					
Bates	----	1495	2273	----	3768
Maton	----	1349	2304	----	3653
NF 65	----	1609	2037	----	3646
Elbon	----	1453	2190	----	3642
Oklon	----	1439	2176	----	3615
Wintergrazer 70	----	1281	2256	----	3537
Wren's Abruzzi AL	----	1651	1729	----	3380
Boss	----	1417	1939	----	3356
FL 96RP16-34-1	----	1557	1789	----	3346
AGS 104	----	1693	1632	----	3325
Triticale					
Trical 336	----	1522	2112	----	3634
Trical 815	----	1120	2492	----	3612
Trical 2700	----	1676	1841	----	3517
RSI OIT60042	----	1886	1450	----	3337
Trical 308	----	1712	1473	----	3184
RSI 342	----	1730	1323	----	3053
Trical 2115	----	1530	1335	----	2865
Monarch	----	1545	1216	----	2761
Trical 498	----	1673	1007	----	2680
Test Mean	----	1497	1839	----	3336
C.V. (%)	----	10	10	----	8
LSD(0.10)	----	172	190	----	287

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, 2004-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Wheat					
Jackson	1001	1455	2034	----	4490
Oat					
Harrison	1064	1207	1967	----	4239
Magnum 2000	1048	1041	1371	----	3460
Rye					
Wintergrazer 70	1239	1143	2467	----	4850
Wren's Abruzzi AL	1302	1647	1694	----	4643
Boss	826	1380	2396	----	4601
AGS 104	1130	1582	1789	----	4502
Triticale					
Trical 2700	1396	1619	1817	----	4832
Trical 336	1015	1395	2369	----	4779
RSI 342	1004	1897	1331	----	4233
Monarch	1216	1618	1257	----	4091
Trical 2115	1145	1567	1301	----	4012
Trical 308	680	1398	1216	----	3294
Test Mean	1082	1458	1770	----	4310
C.V. (%)	20	16	14	----	14
LSD(0.10)	233	170	198	----	410

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, 2003-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Oat					
Harrison	906	1121	1709	----	3736
Rye					
Wintergrazer 70	1107	1432	1940	----	4478
Wren's Abruzzi AL	1164	1645	1494	----	4303
Boss	852	1637	1780	----	4269
AGS 104	1152	1471	1608	----	4230
Triticale					
Trical 336	700	1452	1901	----	4052
Trical 2700	1013	1521	1359	----	3894
Trical 2115	844	1570	1231	----	3645
Trical 308	689	1465	1073	----	3227
Test Mean	936	1479	1566	----	3982
C.V. (%)	25	18	19	----	15
LSD(0.10)	190	161	178	----	355

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, 2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Wheat					
GA Gore	757	758	3663	----	5179
AGS 2000	573	841	3441	----	4855
Jackson	263	216	880	----	1359
Oat					
Harrison	1046	724	4395	----	6165
Magnum 2000	1334	730	2436	----	4500
Rye					
Boss	1109	665	4539	----	6312
AGS 104	915	990	4362	----	6266
Wintergrazer 70	870	598	4450	----	5918
NF 65	1070	625	4175	----	5870
FL 96RP16-34-1	895	794	4178	----	5867
Wren's Abruzzi AL	1069	1009	3769	----	5848
Maton	855	559	4411	----	5824
Oklon	940	589	3844	----	5372
Bates	968	525	3830	----	5323
Elbon	851	473	3827	----	5151
Triticale					
Trical 2700	967	856	3451	----	5274
RSI 342	675	1456	2988	----	5119
Trical 308	1199	936	2873	----	5007
Trical 2115	804	1145	2397	----	4347
Monarch	810	997	2534	----	4341
RSI OIT60042	741	614	2523	----	3878
Trical 336	479	304	2777	----	3560
Trical 498	331	504	2226	----	3061
Trical 815	194	157	2023	----	2374
Test Mean	821	711	3333	----	4865
C.V. (%)	14	17	8	----	6
LSD(0.10)	146	140	283	----	335

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, 2004-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Wheat					
Jackson	731	515	1531	----	2777
Oat					
Harrison	1139	631	3678	----	5448
Magnum 2000	2116	608	1879	----	4602
Rye					
Boss	897	1089	4282	----	6268
Wintergrazer 70	1243	607	4383	----	6233
AGS 104	1290	1430	3463	----	6183
Wren's Abruzzi AL	1806	1426	2865	----	6097
Triticale					
Trical 2700	1556	1204	2701	----	5461
RSI 342	1331	1760	2297	----	5388
Trical 308	1648	1294	2233	----	5175
Monarch	1399	1351	1834	----	4584
Trical 2115	1321	1255	1882	----	4458
Trical 336	772	729	2832	----	4332
Test Mean	1327	1069	2758	----	5154
C.V. (%)	21	16	7	----	7
LSD(0.10)	208	132	168	----	264

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, 2003-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Oat					
Harrison	1139	812	4006	----	5958
Rye					
Wintergrazer 70	1243	861	4561	----	6665
Wren's Abruzzi AL	1806	1787	2806	----	6399
AGS 104	1290	1853	3239	----	6383
Boss	897	1418	4029	----	6344
Triticale					
Trical 2700	1556	1385	3031	----	5971
Trical 308	1648	1489	2405	----	5542
Trical 336	772	798	3093	----	4663
Trical 2115	1321	1284	2000	----	4604
Test Mean	1297	1299	3241	----	5837
C.V. (%)	23	19	8	----	7
LSD(0.10)	221	149	155	----	240

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, 2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Wheat					
AGS 2000	1343	1476	----	----	2818
Jackson	1333	1421	----	----	2754
GA Gore	1387	1116	----	----	2503
Oat					
Harrison	1926	1237	----	----	3162
Magnum 2000	1588	294	----	----	1882
Rye					
Oklon	2015	1256	----	----	3271
FL 96RP16-34-1	1543	1617	----	----	3159
AGS 104	1821	1290	----	----	3111
Bates	1847	1221	----	----	3068
Wren's Abruzzi AL	1641	1266	----	----	2907
NF 65	1672	1210	----	----	2882
Boss	1489	1145	----	----	2635
Maton	1507	1043	----	----	2550
Elbon	1399	1043	----	----	2442
Wintergrazer 70	1360	931	----	----	2291
Triticale					
Monarch	1653	1232	----	----	2885
RSI 342	1458	1269	----	----	2727
Trical 308	1608	1111	----	----	2720
Trical 498	1570	1125	----	----	2695
Trical 2700	1437	1155	----	----	2592
Trical 2115	1579	958	----	----	2537
RSI OIT60042	1418	1073	----	----	2491
Trical 336	1155	907	----	----	2062
Trical 815	1108	564	----	----	1672
Test Mean	1536	1123	----	----	2659
C.V. (%)	13	22	----	----	13
LSD(0.10)	243	273	----	----	377

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, 2004-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Wheat					
Jackson	1530	1493	2624	----	5646
Oat					
Harrison	1995	1132	2940	----	6067
Magnum 2000	1633	764	2427	----	4824
Rye					
AGS 104	1888	1251	3713	----	6852
Wren's Abruzzi AL	1810	1219	3020	----	6049
Boss	1586	1181	3220	----	5988
Wintergrazer 70	1690	996	2876	----	5562
Triticale					
Trical 2115	1823	1033	3985	----	6841
RSI 342	1640	1194	3673	----	6507
Monarch	1774	1158	3466	----	6398
Trical 2700	1633	1201	3308	----	6142
Trical 308	1635	1051	3145	----	5831
Trical 336	1734	1009	2831	----	5574
Test Mean	1721	1129	3171	----	6022
C.V. (%)	19	20	28	----	16
LSD(0.10)	242	167	980	----	530

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, 2003-2005.

Brand-Variety	Autumn	Winter	Early Spring	Late Spring	Total
	---------- lbs/acre ----------				
Oat					
Harrison	1995	1839	2804	----	6638
Rye					
AGS 104	1888	2128	2481	----	6496
Boss	1586	2408	2338	----	6332
Wren's Abruzzi AL	1810	2168	2239	----	6217
Wintergrazer 70	1690	1745	2495	----	5930
Triticale					
Trical 2115	1823	1708	2872	----	6404
Trical 2700	1633	1907	2708	----	6247
Trical 336	1734	1984	2420	----	6138
Trical 308	1635	1743	2463	----	5841
Test Mean	1755	1959	2535	----	6249
C.V. (%)	18	29	28	----	16
LSD(0.10)	255	353	545	----	500

SEED SOURCES

WHEAT	
AGS 2000	AG South Genetics, Albany, Georgia
GA Gore, Jackson	Alabama Crop Improvement Assn. Auburn, Alabama
SS MPV 57	Southern States Coop, Richmond, Virginia
OATS	
Harrison	Arkansas County Seed Co. Stuttgart, Arkansas
Magnum 2000	Pennington Seed, Inc. Madison, Georgia
SC 961246*	Clemson University, Clemson, South Carolina
SS 76-40	Southern States Coop, Richmond, Virginia
RYE	
Wren's Abruzzi AL	Alabama Crop Improvement Assoc. Auburn, Alabama
Bates, Elbon, Maton, Oklon, NF 65*	Noble Foundation, Inc., Ardmore, Oklahoma
Wintergrazer 70	Pennington Seed, Inc. Madison, Georgia
Boss, AGS 104, FL 96RP16-34-1*	University of Florida Quincy, Florida
TRITICALE	
Trical 308, Trical 336, Trical 498 Trical 815, Trical 2115, Trical 2700 RSI 342, RSI OIT60042*	Resource Seeds, Inc. Union, Kentucky
Monarch	University of Florida Quincy, Florida

* Experimental line; not yet commercially available.