

*Performance of  
Ryegrass  
Varieties in  
Alabama,  
2005-06*

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# PERFORMANCE OF RYEGRASS VARIETIES IN ALABAMA, 2005-06

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## INTRODUCTION

The Alabama Ryegrass Variety Evaluation is a continuing evaluation of available varieties and breeding lines from private companies and state agricultural experiment stations. Experiments are planted annually in northern, central, and southern locations to evaluate the varieties and lines under the different environmental conditions of Alabama. Entries in each experiment are determined by the companies or institutes that control each variety or line, not by Alabama Agricultural Experiment Station personnel. The experiments are conducted by experiment station personnel and the results are presented in a fair and unbiased manner.

## PROCEDURE

Ryegrass entries were seeded at a 20-pound-per-acre rate in rows 7 inches apart, using plots 5 x 20 feet with four replications. Acceptable stands were obtained at the following locations: Sand Mountain Research and Extension Center, Crossville; E.V. Smith Research Center, Plant Breeding Unit, Tallassee; Wiregrass Research and Extension Center, Headland and Gulf Coast Research and Extension Center, Fairhope.

The experiments were fertilized with phosphorus and potassium according to Auburn University soil test recommendations. At planting, nitrogen was applied at the rate of 50 pounds per acre, and an additional 50 pounds of N per acre was applied after each cutting. A 32- or 49-inch swath of each plot was harvested to a cutting height of 1 to 2 inches with a flail harvester each time the ryegrass reached 6-10 inches tall. A herbage sample of approximately 1 pound was taken from each plot at each harvest for determining forage dry matter percentage. In 2005, the tests were planted September 10, October 19, November 4, October 20, and October 17, at Crossville, Tallassee, Headland, Fairhope, and Marion Junction, respectively. In 2004, the tests were planted October 7, October 21, October 14, and October 20 at Crossville, Tallassee, Headland, and Fairhope, respectively. The small trial at Marion Junction could not be planted due to excessive fall moisture. In 2003, the tests were planted September 30, October 2, October 15, and October 17 at Crossville, Tallassee, Headland, and Fairhope, respectively.

## DISCUSSION

Strategies to meet seasonal forage needs are an important consideration for livestock producers. Tables 1-5 provide yield data by harvest for 2005-06 at a given location, while Tables 6 and 7 show 1, 2, and 3-year total yields by location. Seasonal and total dry matter yields by locations are provided in Tables 8 and 9. The three seasonal periods are: fall -- forage produced through February; early spring -- March and early April production; and late spring -- production after April 20. A 3-year average provides a more dependable comparison of ryegrass varieties than do single-year results.

TABLE 1. SEASONAL DRY MATTER YIELD OF ANNUAL RYEGRASS AT THE SAND MOUNTAIN RESEARCH AND EXTENSION CENTER, CROSSVILLE, ALABAMA, 2006.

Cultivar	Yield by harvest date						Season total
	3/15	3/30	4/11	4/27	5/18	†	
	----- lbs per acre -----						
DH-3	2142	651	3160	1689	1027	.	8669
Rio	2779	637	1969	1632	1087	.	8104
WD-40	2221	746	1998	1744	1061	.	7771
Maximus	1846	714	1940	2046	1105	.	7651
Ed	2106	650	1964	1770	1146	.	7635
Grazer	2722	396	1766	1679	925	.	7488
Prine	2157	652	1901	1357	1303	.	7369
Dyna-Gain	2085	677	1816	1670	1118	.	7365
Gulf (Local)	2294	709	1829	1580	909	.	7321
Jackson	1914	645	1898	1411	1443	.	7310
Tam 90	1733	661	2019	1820	1035	.	7267
Prime Cut	2043	708	1878	1516	1117	.	7262
WMN 97	1788	726	2086	1565	1072	.	7236
4X	1667	669	2064	1705	1128	.	7233
Shiwasuaoba	3253	314	1614	1393	652	.	7226
Big Boss	2100	698	1686	1609	1082	.	7174
Verdure	2233	722	1592	1581	1028	.	7156
TXR 2005-TBO	2102	760	1762	1349	1173	.	7145
Wax ME-94	1599	718	1972	1551	1261	.	7101
FL X2002 (New 3) LRCT Select	1310	573	2480	1683	1026	.	7072
Passerel Plus	1407	738	2125	1745	1041	.	7056
Diamond T	1760	702	1900	1557	1122	.	7041
Marshall	1278	626	2193	1698	1209	.	7003
Flying A	1635	597	1865	1588	1233	.	6918
FL/NE X 2005 (Misc 2X) LRCT	1408	626	2003	1609	1218	.	6864
M/FL X2005 (4X) ER	2583	436	1489	1340	931	.	6780
Jumbo	1540	548	1865	1528	1198	.	6679
M/FL X2005 (4X) LRCT	1708	522	1745	1661	953	.	6588
Attain	1508	560	1668	1519	1140	.	6395
3LWD8181-2	1550	541	1635	1597	891	.	6213
Wax ME-4	1932	697	1971	1684	1087	.	6041
FL X2004 (G)4X ERLS	1388	476	1488	1375	823	.	5550
Brigadier	811	0	0	783	937	.	1273
<b>Test Mean</b>	1897	628	1917	1577	1075	.	6938
<b>C.V. (%)</b>	31	19	27	17	15	.	15
<b>LSD(0.10)</b>	571	107	476	239	156	.	1008

Planted: 9/10/2005

Soil: Hartsells Fine Sandy Loam

† only five cuts taken at this location

**TABLE 2. SEASONAL DRY MATTER YIELD OF ANNUAL RYEGRASS AT THE E.V. SMITH RESEARCH CENTER, PLANT BREEDING UNIT, TALLASSEE, 2006.**

Cultivar	Yield by harvest date						Season total
	1/9	2/15	3/8	3/23	4/13	5/9	
	----- lbs per acre -----						
Prine	670	694	767	866	1220	1009	5226
Gulf (Local)	807	918	841	800	926	708	5001
Dyna-Gain	515	681	788	1027	1038	806	4855
TXR 2005-TBO	518	546	754	885	1203	916	4821
Attain	569	570	811	884	1106	835	4775
Diamond T	534	573	725	886	1091	957	4765
Maximus	515	587	809	900	1076	809	4697
Flying A	466	619	727	1072	1032	765	4680
Big Boss	458	668	795	881	1125	746	4673
Prime Cut	483	612	734	949	1092	797	4667
Marshall	682	509	620	1021	1176	654	4662
Passerel Plus	520	510	535	977	1190	918	4650
FL X2004 (G)4X ERLS	198	538	827	836	1143	1085	4626
4X	533	707	710	874	1103	653	4580
Ed	552	561	773	853	1023	818	4580
Rio	630	672	733	857	891	775	4557
Jumbo	335	513	768	909	1093	910	4528
Wax ME-94	459	494	651	981	1211	692	4489
M/FL X2005 (4X) ER	450	757	931	684	951	687	4461
Wax ME-4	397	399	507	963	1235	917	4417
Verdure	522	692	692	735	1039	734	4413
M/FL X2005 (4X) LRCT	245	610	874	926	986	752	4393
WD-40	324	608	769	1053	915	666	4335
Shiwasuaoba	825	996	748	608	804	351	4332
Jackson	387	461	567	948	1063	895	4320
FL/NE X 2005 (Misc 2X) LRCT	261	470	594	1009	1027	808	4168
Grazer	175	642	1077	714	914	632	4153
DH-3	437	510	665	875	955	653	4096
Tam 90	356	585	703	872	928	607	4050
WMN 97	300	291	482	1033	1154	743	4003
FL X2002 (New 3) LRCT Select	170	296	512	941	1181	839	3939
3LWD8181-2	308	496	644	786	896	765	3894
Brigadier	.	174	401	640	1045	1215	3476
<b>Test Mean</b>	456	575	713	886	1055	791	4463
<b>C.V. (%)</b>	38	35	23	13	10	19	11
<b>LSD(0.10)</b>	170	188	156	106	94	152	463

Planted: 10/19/2005

Soil: Cahaba Fine Sandy Loam

**TABLE 3. SEASONAL DRY MATTER YIELD OF ANNUAL RYEGRASS AT THE BLACK BELT RESEARCH AND EXTENSION CENTER, MARION JUNCTION, ALABAMA, 2006.**

Cultivar	Yield by harvest date						Season total
	3/8	4/6	†	†	†	†	
	----- lbs per acre -----						
Prime Cut	833	2227	.	.	.	.	3060
Tam 90	794	2065	.	.	.	.	2859
Verdure	1090	1733	.	.	.	.	2823
Jackson	793	2019	.	.	.	.	2812
Grazer	727	1984	.	.	.	.	2712
Passerel Plus	723	1983	.	.	.	.	2706
Gulf (Local)	828	1864	.	.	.	.	2692
M/FL X2005 (4X) ER	575	2004	.	.	.	.	2579
Marshall	490	1974	.	.	.	.	2463
Wax ME-4	369	1789	.	.	.	.	2158
<b>Test Mean</b>	722	1964	.	.	.	.	2686
<b>C.V. (%)</b>	24	18	.	.	.	.	16
<b>LSD(0.10)</b>	264	335	.	.	.	.	470

Planted: 10/17/2005

Soil: Houston Clay

† only two cuts taken at this location

**TABLE 4. SEASONAL DRY MATTER YIELD OF ANNUAL RYEGRASS AT THE WIREGRASS RESEARCH AND EXTENSION CENTER, HEADLAND, ALABAMA, 2006.**

Cultivar	Yield by harvest date						Season total
	1/10	2/1	3/1	3/27	5/4	†	
	----- lbs per acre -----						
Gulf (Local)	2344	2921	1711	1681	1416	.	10074
Flying A	1517	3169	1741	2141	1493	.	10060
Maximus	1998	3069	1646	1518	1813	.	10043
Verdure	1701	3124	1668	1667	1831	.	9990
Rio	1600	3206	1678	1692	1494	.	9670
Prine	1395	3250	1746	1237	1959	.	9587
TXR 2005-TBO	1288	3319	1715	1500	1643	.	9465
Big Boss	1434	3022	1692	1593	1684	.	9425
M/FL X2005 (4X) ER	1161	2907	1999	1777	1579	.	9423
Tam 90	1227	3062	1723	1815	1564	.	9390
Prime Cut	1748	2770	1485	1744	1631	.	9378
Diamond T	1777	2943	1644	1418	1593	.	9376
Shiwasuaoba	2523	3010	1509	1357	902	.	9301
Jumbo	1254	3127	1545	1872	1463	.	9262
DH-3	1369	3336	1790	1433	1331	.	9259
Dyna-Gain	1529	3108	1486	1502	1502	.	9127
Attain	1108	2860	1753	1656	1748	.	9126
FL X2004 (G)4X ERLS	837	2950	1701	1696	1639	.	8822
M/FL X2005 (4X) LRCT	757	2882	2068	1543	1563	.	8814
Wax ME-4	851	2528	1972	1853	1601	.	8804
Jackson	1122	3014	1856	1423	1363	.	8778
Marshall	948	2547	1622	2057	1580	.	8753
WD-40	1003	3056	1531	1602	1484	.	8676
FL/NE X 2005 (Misc 2X) LRCT	649	2780	2085	1697	1421	.	8633
FL X2002 (New 3) LRCT Select	773	2655	1761	1776	1550	.	8514
4X	1296	2883	1426	1377	1489	.	8472
Grazer	766	3075	1554	1769	1300	.	8465
Ed	1209	2574	1632	1554	1321	.	8290
Passerel Plus	998	2550	1538	1785	1324	.	8195
3LWD8181-2	1121	2839	1517	1342	1272	.	8090
Wax ME-94	1051	2443	1416	1559	1318	.	7787
WMN 97	985	2243	1290	1661	1329	.	7508
Brigadier	79	1025	1061	1071	1201	.	4436
<b>Test Mean</b>	1255	2856	1653	1617	1497	.	8879
<b>C.V. (%)</b>	27	13	19	19	15	.	9
<b>LSD(0.10)</b>	314	360	304	308	220	.	828

Planted: 10/20/2003

Soil: Dothan Fine Sandy Loam

† only five cuts taken at this location

TABLE 5. SEASONAL DRY MATTER YIELD OF ANNUAL RYEGRASS AT THE GULF COAST RESEARCH AND EXTENSION CENTER, FAIRHOPE, ALABAMA, 2006.

Cultivar	Yield by harvest date						Season total
	1/12	2/1	3/1	4/5	†	†	
	----- lbs per acre -----						
Wax ME-4	1293	1598	1138	2908	.	.	6938
Gulf (Local)	1350	1466	1233	2817	.	.	6866
FL X2004 (G)4X ERLS	1200	1422	1343	2861	.	.	6825
Rio	1512	1506	1067	2636	.	.	6720
Tam 90	1286	1426	1082	2916	.	.	6711
Ed	1329	1523	1106	2746	.	.	6703
Grazer	1214	1384	1305	2769	.	.	6672
Jumbo	1349	1591	1119	2590	.	.	6649
M/FL X2005 (4X) ER	1349	1464	1193	2618	.	.	6624
DH-3	1348	1452	1069	2712	.	.	6580
Flying A	1472	1479	1113	2515	.	.	6579
TXR 2005-TBO	1404	1426	1128	2580	.	.	6539
Jackson	1191	1432	1134	2759	.	.	6517
Shiwasuaoba	1614	1371	1430	2061	.	.	6476
Wax ME-94	1309	1505	955	2676	.	.	6445
Marshall	1258	1501	924	2756	.	.	6439
Verdure	1509	1449	949	2510	.	.	6417
Diamond T	1521	1467	1081	2319	.	.	6388
FL X2002 (New 3) LRCT Select	1148	1383	1066	2760	.	.	6355
Prine	1224	1485	1047	2597	.	.	6353
M/FL X2005 (4X) LRCT	1139	1379	1218	2608	.	.	6343
Big Boss	1312	1376	1036	2547	.	.	6271
WMN 97	1417	1450	811	2586	.	.	6263
Attain	1332	1382	1066	2454	.	.	6234
Passerel Plus	1214	1577	997	2434	.	.	6221
Maximus	1205	1402	1050	2526	.	.	6184
Prime Cut	1093	1459	1042	2521	.	.	6115
FL/NE X 2005 (Misc 2X) LRCT	1136	1353	961	2638	.	.	6088
Dyna-Gain	1270	1389	1051	2340	.	.	6050
3LWD8181-2	1211	1468	1039	2287	.	.	6004
4X	1246	1337	766	2597	.	.	5947
WD-40	1085	1386	950	2478	.	.	5899
Brigadier	0	-0	0	0	.	.	0
<b>Test Mean</b>	1259	1403	1044	2519	.	.	6225
<b>C.V. (%)</b>	17	8	12	9	.	.	6
<b>LSD(0.10)</b>	199	107	117	208	.	.	362

Planted: 11/4/2005

Soil: Malbis Fine Sandy Loam

† only four cuts taken at this location

**TABLE 6. TOTAL DRY MATTER YIELD OF RYEGRASS VARIETIES, 2006, AND TWO- AND THREE-YEAR AVERAGES FOR SAND MOUNTAIN REC AND PLANT BREEDING UNIT.**

Sand Mountain Research and Ext. Ctr.				Plant Breeding Unit			
Brand-Variety	2-yr. Avg 3-yr. Avg			Brand-Variety	2-yr. Avg 3-yr. Avg		
	2006	2005-06	2004-06		2006	2005-06	2004-06
----- lbs per acre -----				----- lbs per acre -----			
Wax ME-94	7101	10142	11490	Flying A	4680	4794	4197
Rio	8104	10114	11412	Gulf (Local)	5001	4994	4174
Ed	7635	10451	11279	Marshall	4662	4780	4054
Passerel Plus	7056	9821	11243	Ed	4580	4746	4049
Flying A	6918	9577	11132	Prine	5226	4661	3965
Jackson	7310	9959	11098	Diamond T	4765	4648	3956
Marshall	7003	9744	11042	Wax ME-94	4489	4590	3954
WD-40	7771	9808	11008	Jackson	4320	4489	3894
WMN 97	7236	9688	10998	WD-40	4335	4413	3810
Tam 90	7267	9609	10915	Rio	4557	4311	3781
Gulf (Local)	7321	9523	10879	4X	4580	4359	3672
4X	7233	9931	10775	Passerel Plus	4650	4394	3628
Prine	7369	9392	10471	Tam 90	4050	4054	3597
Diamond T	7041	8938	9970	WMN 97	4003	4283	3540
Shiwasuaoba	7226	8718	9734	Brigadier	3476	3866	3495
Brigadier	692	6355	8850	Shiwasuaoba	4332	3797	3456
Grazer	7488	10448	.	Big Boss	4673	4928	.
FL X2002 (New 3) LRCT Select	7072	9985	.	M/FL X2005 (4X) LRCT	4393	4611	.
Maximus	7651	9735	.	TXR 2005-TBO	4821	4586	.
FL/NE X 2005 (Misc 2X) LRCT	6864	9674	.	Attain	4775	4529	.
Attain	6395	9222	.	FL/NE X 2005 (Misc 2X) LRCT	4168	4279	.
Jumbo	6679	8966	.	Grazer	4153	4151	.
Big Boss	7174	8845	.	Dyna-Gain	4855	.	.
M/FL X2005 (4X) LRCT	6588	8823	.	Maximus	4697	.	.
TXR 2005-TBO	7145	8789	.	Prime Cut	4667	.	.
3LWD8181-2	6213	8697	.	FL X2004 (G)4X ERLS	4626	.	.
DH-3	8669	.	.	Jumbo	4528	.	.
Dyna-Gain	7365	.	.	M/FL X2005 (4X) ER	4461	.	.
Prime Cut	7262	.	.	Wax ME-4	4417	.	.
Verdure	7156	.	.	Verdure	4413	.	.
M/FL X2005 (4X) ER	6780	.	.	DH-3	4096	.	.
Wax ME-4	6041	.	.	FL X2002 (New 3) LRCT Select	3939	.	.
FL X2004 (G)4X ERLS	5550	.	.	3LWD8181-2	3894	.	.

TABLE 7. TOTAL DRY MATTER YIELD OF RYEGRASS VARIETIES, 2006, AND TWO- AND THREE-YEAR AVERAGES FOR WIREGRASS REC AND GULF COAST REC.

Wiregrass Research and Ext. Ctr.				Gulf Coast Research and Ext. Ctr.			
Brand-Variety	2-yr. Avg		3-yr. Avg	Brand-Variety	2-yr. Avg		3-yr. Avg
	2006	2005-06	2004-06		2006	2005-06	2004-06
----- lbs per acre -----				----- lbs per acre -----			
Prine	9587	10562	9745	Wax ME-94	6445	6608	6515
Diamond T	9376	10281	9618	Marshall	6439	6546	6489
Gulf (Local)	10074	10323	9294	Jumbo	6649	6495	6353
Flying A	10060	9923	9119	Gulf (Local)	6866	6563	6318
Ed	8290	9732	8907	Flying A	6579	6586	6314
4X	8472	9372	8881	Jackson	6517	6426	6313
Marshall	8753	9738	8847	Tam 90	6711	6541	6305
Jackson	8778	9498	8571	Prine	6353	6378	6285
Rio	9670	9680	8555	Ed	6703	6286	6285
Wax ME-94	7787	8937	8508	Diamond T	6388	6187	6250
WD-40	8676	9210	8504	Rio	6720	6541	6232
Tam 90	9390	9305	8449	Passerel Plus	6221	6194	6132
Passerel Plus	8195	9310	8425	WMN 97	6263	5884	5971
Shiwasuaoba	9301	8938	8349	4X	5947	5815	5914
WMN 97	7508	8374	7651	WD-40	5899	5863	5901
Brigadier	4436	6073	6372	Shiwasuaoba	6476	5484	5890
Big Boss	9425	10755	.	Brigadier	0	2514	3863
TXR 2005-TBO	9465	10396	.	M/FL X2005 (4X) LRCT	6343	6649	.
Attain	9126	10214	.	3LWD8181-2	6004	6522	.
M/FL X2005 (4X) LRCT	8814	10027	.	Maximus	6184	6509	.
FL/NE X 2005 (Misc 2X) LRCT	8633	9448	.	Big Boss	6271	6131	.
Grazer	8465	8756	.	TXR 2005-TBO	6539	6083	.
Maximus	10044	.	.	FL/NE X 2005 (Misc 2X) LRCT	6088	6047	.
Verdure	9990	.	.	Attain	6234	5927	.
M/FL X2005 (4X) ER	9423	.	.	Grazer	6672	5654	.
Prime Cut	9378	.	.	FL X2002 (New 3) LRCT Select	6355	5630	.
Jumbo	9262	.	.	Wax ME-4	6938	.	.
DH-3	9259	.	.	FL X2004 (G)4X ERLS	6825	.	.
Dyna-Gain	9127	.	.	M/FL X2005 (4X) ER	6624	.	.
FL X2004 (G)4X ERLS	8822	.	.	DH-3	6580	.	.
Wax ME-4	8804	.	.	Verdure	6417	.	.
FL X2002 (New 3) LRCT Select	8514	.	.	Prime Cut	6115	.	.
3LWD8181-2	8090	.	.	Dyna-Gain	6050	.	.

**TABLE 8. SEASONAL DISTRIBUTION OF RYEGRASS PRODUCTION AT SAND MOUNTAIN REC AND PLANT BREEDING UNIT BASED ON THREE-YEAR AVERAGES, 2004-2006.**

Brand-Variety	Fall	Early spring	Late spring	3-yr avg
<b>Sand Mountain Research and Ext. Ctr.</b>	----- % of 3yr avg. -----			lbs/acre
Rio	28	43	29	12588
Wax ME-94	25	44	31	12536
Passerel Plus	26	45	29	12303
Ed	24	44	31	12276
Flying A	26	43	31	12200
Jackson	26	45	29	12140
WD-40	26	44	30	12054
Marshall	24	47	29	12019
Tam 90	26	43	31	11941
WMN 97	24	47	29	11936
Gulf (Local)	26	45	29	11922
4X	23	46	32	11656
Prine	25	46	29	11429
Diamond T	26	46	29	10898
Shiwasuaoba	23	42	35	10557
Brigadier	25	43	32	9665
<b>Plant Breeding Unit</b>				
Flying A	18	48	35	4743
Gulf (Local)	22	47	30	4643
Marshall	18	45	37	4626
Ed	19	47	33	4556
Prine	20	45	36	4498
Wax ME-94	17	47	36	4496
Diamond T	17	48	36	4489
Jackson	15	48	37	4444
WD-40	17	49	34	4298
Rio	21	47	32	4232
4X	17	47	36	4170
Passerel Plus	18	43	39	4169
WMN 97	13	44	43	4136
Brigadier	10	47	44	4089
Tam 90	18	47	35	4072
Shiwasuaoba	29	49	22	3730

TABLE 9. SEASONAL DISTRIBUTION OF RYEGRASS PRODUCTION AT WIREGRASS REC AND GULF COAST REC BASED ON THREE-YEAR AVERAGES, 2004-2006.

Brand-Variety	Fall	Early spring	Late spring	3-yr avg
<b>Wiregrass Research and Ext. Ctr.</b>	----- % of 3yravg. -----			lbs/acre
Prine	36	48	16	9745
Diamond T	38	48	14	9618
Gulf (Local)	39	48	13	9294
Flying A	37	50	14	9119
Ed	35	51	14	8907
4X	37	48	15	8881
Marshall	32	51	18	8847
Jackson	32	52	15	8571
Rio	38	47	15	8555
Wax ME-94	34	51	15	8508
WD-40	37	51	12	8504
Tam 90	37	49	14	8449
Passerel Plus	33	51	16	8425
Shiwasuaoba	50	42	9	8349
WMN 97	32	51	17	7651
Brigadier	21	61	18	6372
<b>Gulf Coast Research and Ext. Ctr.</b>				
Wax ME-94	45	55	.	6515
Marshall	45	55	.	6489
Jumbo	45	55	.	6353
Gulf (Local)	47	53	.	6318
Flying A	49	51	.	6314
Jackson	45	55	.	6313
Tam 90	47	53	.	6305
Prine	47	53	.	6285
Ed	46	54	.	6285
Diamond T	45	55	.	6250
Rio	46	54	.	6232
Passerel Plus	50	51	.	6132
WMN 97	48	52	.	5971
4X	45	55	.	5914
WD-40	49	52	.	5901
Shiwasuaoba	48	52	.	5890
Brigadier	41	59	.	3863

## SOURCES OF RYEGRASS SEED

<b>Cultivar</b>	<b>Company</b>
3LWD8181-2	Barenbrug USA, Tangent, Oregon
Jumbo	
Maximus	
FL X2002 (New 3) LRCT SELECT	
FL X2004 (G) 4X ERLS	
Brigadier	East Texas Seed Co., Tyler, Texas
Prine	
4X	OreGro Seeds, Inc., Shedd, Oregon
DH-3	
Diamond T	
Dyna-Gain	
Flying A	
Prime Cut	
WD-40	
Gulf (Local Source)	Piedmont Fertilizer Co., Opelika, Alabama
Passerel Plus	Pennington Seed, Inc., Lebanon, Oregon
Shiwasuaba	
Rio	ProSeeds Marketing, Inc., Jefferson, Oregon
Attain (formerly FLX2001(New1)4XLRLate)	Smith Seed Service, Halsey, Oregon
Big Boss (formerly FLX2003(BD)4XLRCT)	
Ed	
Verdure	
TAM 90	Texas A & M University, College Station, Texas
TXR2005-TBO	
Jackson	The Wax Company, LLC, Amory, Mississippi
Marshall	
WAX ME-94	
WMN 97	
WAX ME-4	
M/FL X2005(4x)ER	University of Florida, Gainesville, Florida
FL/NE X2005(Misc 2x)LRCT	
M/FL X2005(4x)LRCT	
Grazer	University of Georgia, Athens, Georgia