

Performance of
COOL-SEASON ANNUAL FORAGE CROPS
in Louisiana, 2007-2008

LAES Research Summary No. 177

LOUISIANA STATE UNIVERSITY AGRICULTURAL CENTER
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Performance of Cool-season Annual Forage Crops in Louisiana, 2007-2008

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Introduction

Winter annual forages are recommended for grazing, green chop, hay and silage production in Louisiana. Each year scientists of the Louisiana State University Agricultural Center conduct performance trials to evaluate the forage production of annual ryegrass, cereal rye and oat varieties. Trials are conducted at various LSU Agricultural Center research stations throughout the state to provide information on the performance of varieties under varying soil and climatic conditions.

Information provided by these trials is used by LSU Agricultural Center scientists to develop a list of varieties that have performed satisfactorily in forage performance trials in Louisiana. Louisiana forage producers can use this information to decide on varieties to use in their production systems. To be included on the list of varieties that are considered to have performed satisfactorily from a crop for which several varieties are available, a commercial variety must be tested for three consecutive years and have an average yield not less than 90% of the three-year mean of the top three yielding varieties. A variety will be listed as 'Promising' if, following two consecutive years of testing, it has shown acceptable agronomic performance and has yielded at least 90% of the average of the top three varieties. A variety will be dropped from the list if it fails to perform satisfactorily or if it is no longer available to the producers or if not submitted for evaluation.

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Testing Procedures

The cool-season annual forage variety testing program is open to all commercially available varieties and advanced experimental lines of annual ryegrass, cereal rye and oats developed by either public or private plant breeding programs. The trials are managed using production practices recommended by the Louisiana Cooperative Extension Service (LCES) for each species, with soil amendments applied as indicated by soil test and herbicides used as appropriate.

Data on the cumulative forage yield and seasonal distribution of forage yield are collected for each trial to evaluate the adaptation of varieties to specific geographic regions of the state. The trials are conducted in randomized complete-block designs with three to four replications. Plots of each species are cut to a 2- to 4-inch stubble height when growth reaches 8 to 12 inches. Cumulative forage yield data are combined across locations and years and analyzed by analysis of variance procedures to evaluate variety yields. The least significant difference (LSD) value represents the minimum amount by which variety yields must differ to be considered statistically different from one another. If differences are not detected among varieties, the LSD value is not presented.

ANNUAL RYEGRASS

Annual ryegrass (*Lolium multiflorum*) is recommended for use as a high-quality winter grazing, hay or silage crop on most soils. Annual ryegrass should be planted at rates of 30 pounds per acre if seeded alone or 20 pounds per acre if seeded with clover. Recommended seeding dates for annual ryegrass are between September 20 and October 15 if planted into a prepared seedbed and approximately October 15 if planted into an existing sod.

Annual ryegrass variety tests were conducted at four LSU Agricultural Center research stations during the 2007-08 growing season (Table 1). Plots at all locations were seeded at the rate of 30 pounds per acre into a prepared seedbed. Phosphorus (P) and potassium (K) fertilizer was applied at all locations according to soil test recommendations made by the Louisiana Cooperative Extension Service. Total nitrogen (N) applied varied among locations but was at least 170 pounds per acre in multiple applications during the season. Submitting agencies for annual ryegrass varieties evaluated for forage yield are listed in Appendix A.

Table 1. Planting dates and soil types of locations cooperating in the 2007-2008 annual ryegrass variety tests.

Research Station	Location	Planting Date	Soil Type
Southeast	Franklinton	October 10, 2007	Tangi silt loam
Iberia	Jeanerette	October 11, 2007	Baldwin silty clay
Rosepine	Rosepine	October 3, 2007	Malbis fine sandy loam
Macon Ridge	Winnsboro	October 22, 2007	Gigger silt loam

Results of annual ryegrass trials

Annual ryegrass entry, location and statewide yield means for one, two and three years are presented in Tables 2, 3 and 4, respectively. Dry forage production from annual ryegrass entries through the 2007-08 growing season at each location is presented in Tables 5 through 8. Varieties considered to have performed satisfactorily over the past three growing seasons and suggested for consideration in 2008 are 4X, Attain, Big Boss, Diamond T, Dyna Gain, Ed, Flying A, Gulf, Jackson, Jumbo, Marshall, Maximus, Passerel Plus, Prine, Rio, TAM 90, and Verdure. No currently available commercial varieties or brands are listed as promising for 2008.

Table 2. Dry forage production from annual ryegrass entries grown at four locations in Louisiana during the 2007-2008 growing season.

Brand/Variety	Trial Locations				2007-08
	Franklinton	Iberia	Rosepine	Winnsboro	Mean
	----- Dry forage, lb/acre -----				
ME4	13724	10671	7379	7654	9920
Marshall	13694	10055	7417	7401	9673
Big Boss	12622	10829	7502	7138	9623
Attain	13423	10341	7254	6989	9566
TAMTBO	13470	10773	6516	7073	9559
Jackson	14042	9950	6720	7349	9549
FL/NE X2006 (Misc. 2X) LRCT	14865	10079	6130	6910	9541
Rio	14202	9950	6615	7064	9496
Passerel Plus	13375	10277	6611	7244	9446
FLX2002(LA3)LRCT	13355	10194	6761	7149	9428
4X	12525	10774	6926	6967	9412
Royal Flush	13571	10422	6415	6875	9405
ME94	13346	9973	7027	6962	9377
Ed	12498	10555	7194	6808	9363
Diamond T	12990	10309	6914	6907	9359
Flying A	12933	10128	6570	7243	9289
MO 1	13498	9883	6156	7349	9272
Prine	13222	10362	5975	6976	9228
Maximus	13023	10328	5933	7082	9187
Beef Builder III	12168	10456	6391	7249	9173
Dyna Gain	12540	10433	6026	7152	9145
Verdure	12426	10366	6250	6836	9077
DH3	12658	10449	5918	6789	9069
TAM 90	12666	9907	6197	7104	9041
Jumbo	13435	9998	5535	6810	9025
Gulf	12201	10286	5569	7322	8956
WMN97	12117	9398	6860	7101	8910
WD-40	12728	10357	5470	6538	8895
Shiwasuaoba	11435	9008	4993	6824	8138
Mean	13060	10224	6456	7064	9280
LSD (.05)	NS	599	1154	NS	561
CV %	9	4	11	8	8

Table 3. Mean dry forage production from annual ryegrass entries at three locations in Louisiana during two growing seasons, 2006-2007 and 2007-2008.

Brand/Variety	Trial Locations			2-Year Mean
	Franklinton	Iberia	Winnsboro	
	----- Dry forage, lb/acre -----			
Big Boss	14481	8898	7699	10213
Marshall	14648	8645	7764	10182
ME4	13836	9075	7911	10154
FL/NE X2006 (Misc. 2X) LRCT	14140	9073	7538	10133
Prine	13824	8999	7857	10104
TAMTBO	13691	9084	7626	10029
Maximus	13589	8964	7602	9943
Rio	13635	8674	7736	9881
Passerel Plus	13313	8864	7682	9844
Attain	13816	8647	7390	9821
Jackson	12977	8995	7684	9796
FLX2002(LA3)LRCT	13612	8349	7854	9779
Diamond T	13235	8667	7541	9699
Jumbo	12839	8974	7435	9672
ME94	13490	8476	7272	9619
Gulf	12745	9097	7141	9605
Dyna Gain	12704	8761	7542	9578
4X	12892	8428	7744	9562
Verdure	12467	8847	7610	9562
TAM 90	12960	8591	7326	9522
Ed	12607	8985	7130	9515
Flying A	12411	8609	7635	9457
WMN97	12488	8204	7551	9293
Mean	13322	8778	7577	9781
LSD (.05)	NS	548	NS	555
CV %	11	6	9	9

Table 4. Mean dry forage production from annual ryegrass entries at three locations in Louisiana during three growing seasons, 2005-2006 through 2007-2008.

Brand/Variety	Trial Locations			3-Year Mean
	Franklinton	Iberia	Winnsboro	
	----- Dry forage, lb/acre -----			
ME4	12850	7549	7603	9155
Big Boss	13005	7526	7345	9116
Marshall	13122	7112	7453	9017
Prine	12331	7516	7411	8929
FLX2002(LA3)LRCT	12727	7109	7354	8868
Maximus	12373	7277	7182	8777
Passerel Plus	11944	7315	7544	8772
Rio	12240	7315	7236	8769
ME94	12265	7161	7270	8725
Attain	12147	7369	7051	8707
Gulf	11960	7569	6874	8678
Jackson	11614	7519	7217	8657
Dyna Gain	11841	7318	7241	8651
Jumbo	11730	7477	7048	8624
Ed	11889	7522	6735	8596
Diamond T	11866	7124	7212	8573
4X	11758	6970	7459	8553
Verdure	11589	7220	7241	8537
TAM 90	11531	7252	7165	8510
Flying A	11679	7125	7182	8508
WMN97	11302	6866	7301	8327
Mean	12084	7296	7244	8717
LSD (.05)	NS	404	NS	NS
CV %	13	7	8	11

Table 5. Dry forage production from annual ryegrass entries during the 2007-2008 growing season at Southeast Research Station, Franklinton, Louisiana

Brand/Variety	Harvest Date				2007-08
	Jan. 7	Feb. 29	April 7	May 26	Total
	----- Dry forage, lb/acre -----				
FL/NE X2006 (Misc. 2X) LRCT	1539	4578	5718	3030	14865
Rio	1567	3751	6190	2694	14202
Jackson	1641	3352	6566	2484	14042
ME4	1949	3087	6373	2315	13724
Marshall	1649	3662	6325	2058	13694
Royal Flush	1755	3690	5993	2133	13571
MO 1	1704	3539	6102	2154	13498
TAMTBO	1696	3418	5701	2655	13470
Jumbo	1272	3468	5887	2808	13435
Attain	1799	3077	5802	2745	13423
Passerel Plus	1706	3804	5634	2231	13375
FLX2002(LA3)LRCT	1601	3912	5549	2293	13355
ME94	1639	3195	6588	1924	13346
Prine	1545	3037	5970	2670	13222
Maximus	1652	3709	5392	2271	13023
Diamond T	1327	3321	6034	2309	12990
Flying A	1623	3490	5691	2129	12933
WD-40	1677	3794	5196	2062	12728
TAM 90	1434	3650	5367	2216	12666
DH3	1900	2877	5865	2015	12658
Big Boss	1400	3216	5668	2337	12622
Dyna Gain	1762	3526	5320	1931	12540
4X	1367	2945	5956	2258	12525
Ed	1405	3675	5081	2337	12498
Verdure	1315	3244	5600	2267	12426
Gulf	1591	3135	5619	1855	12201
Beef Builder III	1521	2977	5351	2318	12168
WMN97	1149	3084	5818	2066	12117
Shiwasuaoba	1669	3592	4410	1764	11435
Mean	1581	3442	5750	2287	13060
LSD (.05)	NS	NS	929	570	NS
CV %	20	19	10	15	9

Table 6. Dry forage production from annual ryegrass entries during the 2007-2008 growing season at Iberia Research Station, Jeanerette, Louisiana.

Brand/Variety	Harvest Date				2007-08
	Jan. 7	Feb. 11	Mar. 17	April 14	Total
	----- Dry forage, lb/acre -----				
Big Boss	3254	2598	1452	3525	10829
4X	3170	2502	1500	3602	10774
TAMTBO	3430	2647	1258	3439	10773
ME4	3504	2468	1352	3348	10671
Ed	3510	2330	1259	3457	10555
Beef Builder III	3302	2371	1265	3519	10456
DH3	3594	2131	1190	3535	10449
Dyna Gain	3309	2287	1292	3545	10433
Royal Flush	3330	2329	1261	3502	10422
Verdure	3201	2440	1545	3181	10366
Prine	3216	2286	1375	3485	10362
WD-40	3312	2381	1284	3381	10357
Attain	3415	2383	1273	3271	10341
Maximus	3213	2534	1158	3423	10328
Diamond T	3251	2584	1297	3178	10309
Gulf	3524	1992	1437	3333	10286
Passerel Plus	3665	2181	1097	3334	10277
FLX2002(LA3)LRCT	2980	2438	1164	3613	10194
Flying A	3267	2159	1332	3369	10128
FL/NE X2006 (Misc. 2X) LRCT	3114	2073	1190	3702	10079
Marshall	3540	2538	1035	2942	10055
Jumbo	3230	2415	1243	3110	9998
ME94	3208	2347	1301	3117	9973
Jackson	2918	2412	1258	3362	9950
Rio	3216	2176	1193	3366	9950
TAM 90	2991	2297	1304	3315	9907
MO 1	3615	2430	1112	2727	9883
WMN97	3536	2183	838	2842	9398
Shiwasuaoba	3258	2269	1510	1970	9008
Mean	3313	2351	1268	3293	10224
LSD (.05)	NS	305	225	363	599
CV %	10	9	13	8	4

Table 7. Dry forage production from annual ryegrass entries during the 2007-2008 growing season at Rosepine Research Station, Rosepine, LA

Brand/Variety	Harvest Date					2007-08 Total
	Dec. 11	Feb. 6	Mar. 13	April 7	May 12	
	----- Dry forage, lb/acre -----					
Big Boss	866	2124	2143	1458	911	7502
Marshall	852	1789	2058	1693	1024	7417
ME4	1096	2036	2112	1452	683	7379
Attain	875	1915	1833	1412	1219	7254
Ed	904	1917	2064	1462	848	7194
ME94	792	1769	2062	1725	679	7027
4X	836	1852	1739	1587	912	6926
Diamond T	997	1760	2069	1267	821	6914
WMN97	800	1707	2005	1531	817	6860
FLX2002(LA3)LRCT	911	1835	1909	1313	792	6761
Jackson	766	1753	1994	1319	887	6720
Rio	706	1832	1809	1384	883	6615
Passerel Plus	785	1762	1984	1546	534	6611
Flying A	997	1931	1660	1370	612	6570
TAMTBO	612	1618	1921	1347	1017	6516
Royal Flush	638	1943	1822	1234	777	6415
Beef Builder III	716	1753	1700	1311	911	6391
Verdure	660	1693	1870	1265	763	6250
TAM 90	689	1697	1810	1219	783	6197
MO 1	692	1603	1885	1378	597	6156
FL/NE X2006 (Misc. 2X) LRCT	396	1458	2258	1292	726	6130
Dyna Gain	792	1854	1649	1217	515	6026
Prine	474	1387	1749	1337	1028	5975
Maximus	396	1510	1898	1314	815	5933
DH3	455	1838	1717	1353	554	5918
Gulf	793	1566	1620	1104	487	5569
Jumbo	297	1262	1799	1351	827	5535
WD-40	943	1299	1606	1349	273	5470
Shiwasuaoba	660	1604	1245	1171	315	4993
Mean	738	1726	1862	1371	759	6456
LSD (.05)	268	456	420	NS	376	1154
CV %	22	16	14	18	30	11

Table 8. Dry forage production from annual ryegrass entries during the 2007-2008 growing season at Macon Ridge Research Station, Winnsboro, Louisiana.

Brand/Variety	Harvest Date					2007-08 Total
	Jan. 7	Feb. 18	Mar. 10	Apr. 9	May 7	
	----- Dry forage, lb/acre -----					
ME4	1027	1519	1561	2161	1386	7654
Marshall	937	1403	1356	2353	1352	7401
Jackson	890	1451	1402	1984	1622	7349
MO 1	1026	1365	1378	2075	1506	7349
Gulf	1020	1711	1177	1791	1622	7322
Beef Builder III	1021	1605	1386	1803	1433	7249
Passerel Plus	1107	1441	1249	1908	1538	7244
Flying A	1030	1630	1271	1873	1440	7243
Dyna Gain	1038	1427	1318	1831	1538	7152
FLX2002(LA3)LRCT	1002	1557	1295	1924	1371	7149
Big Boss	976	1562	1355	1771	1473	7138
TAM 90	713	1461	1314	1994	1622	7104
WMN97	854	1293	1348	1968	1637	7101
Maximus	968	1575	1296	1745	1499	7082
TAMTBO	1072	1399	1314	1723	1566	7073
Rio	1077	1395	1153	1817	1622	7064
Attain	1227	1515	1215	1624	1408	6989
Prine	992	1501	1313	1814	1357	6976
4X	1000	1544	1151	1957	1314	6967
ME94	883	1318	1277	2272	1211	6962
FL/NE X2006 (Misc. 2X) LRCT	743	1320	1421	2089	1337	6910
Diamond T	984	1451	1287	1813	1373	6907
Royal Flush	880	1443	1388	1747	1417	6875
Verdure	932	1386	1306	1650	1562	6836
Shiwasuaoba	996	1827	849	1781	1371	6824
Jumbo	981	1260	1283	1893	1392	6810
Ed	777	1456	1237	1985	1352	6808
DH3	1050	1408	1280	1920	1131	6789
WD-40	1074	1440	739	1887	1398	6538
Mean	975	1471	1273	1902	1443	7064
LSD (.05)	NS	NS	293	NS	NS	NS
CV %	24	17	14	17	16	8

CEREAL RYE

Cereal rye (*Secale cereale*) is more cold-tolerant and generally produces more forage during late fall and early winter than does annual ryegrass. Cereal rye is recommended either alone or in mixtures with annual ryegrass for use as a winter grazing and/or spring hay crop on most soils and is more tolerant of soil acidity than ryegrass or other small-grain species. It is recommended that cereal rye be planted at rates of 90 pounds per acre if seeded alone or 60 pounds per acre if seeded with annual ryegrass (which should be seeded at 20 pounds per acre). Cereal rye should be planted between September 20 and October 15 if planted into a prepared seedbed and approximately October 15 if planted into an existing sod.

The cereal rye variety test was conducted at two LSU Agricultural Center research stations during the 2007-08 growing season (Table 9). Plots at these locations were seeded as pure stands at the rate of 90 lb/acre into a prepared seedbed. Phosphorus (P) and potassium (K) fertilizer was applied according to soil test recommendations made by the Louisiana Cooperative Extension Service. Total nitrogen (N) applied was between 150 and 170 pounds per acre in multiple applications at planting and post harvest. Submitting agencies for cereal rye varieties are listed in Appendix B.

Table 9. Planting date and soil type at the cooperating locations in the 2007-08 cereal rye variety test.

Research Station	Location	Planting Date	Soil Type
Southeast	Franklinton	October 10, 2007	Tangi silt loam
Rosepine	Rosepine	October 4, 2007	Angie very fine sandy loam

Results of cereal rye trials

Cereal rye entry, location and statewide yield means for one, two and three years are presented in Tables 10 through 12. Varieties considered to have performed satisfactorily over the past 3 growing seasons and suggested for consideration in 2008 are Maton, Maton II, Oklon and Wintergrazer 70. No currently available commercial varieties or brands are listed as promising for 2008.

Table 10. Dry forage production from cereal rye entries during the 2007-2008 growing season at two locations in Louisiana

Brand/Variety	Trial Locations		2007-2008
	Franklinton	Rosepine	Mean
	----- Dry forage, lb/acre -----		
Maton	10180	6949	8565
Oklon	10255	6284	8269
Wintergrazer 70	9997	6166	8082
Bates RS4	10026	6091	8059
Maton II	10084	5645	7864
NF95307A	9699	5804	7752
Mean	10040	6156	8098
LSD (.05)	NS	NS	NS
CV %	3	9	6

Table 11. Performance of cereal rye entries in forage production evaluation trials in Louisiana during two years (2006-07 & 2007-08 growing seasons).

Brand/Variety	Trial Location		2-Year
	Franklinton	Rosepine	Mean
	----- Dry forage, lb/acre -----		
Maton	10285	5762	8024
Oklon	10141	5365	7753
Maton II	10031	4976	7504
Bates RS4	9779	5145	7462
Wintergrazer 70	9442	5202	7322
NF95307A	9361	4994	7178
Mean	9840	5240	7540
LSD (.05)	NS	NS	NS
CV %	8	9	9

Table 12. Performance of cereal rye entries in forage production evaluation trials in Louisiana during three years (2005-06 through 2007-08 growing seasons).

Brand/Variety	Trial Location		3-Year Mean
	Franklinton	Rosepine	
	----- Dry forage, lb/acre -----		
Maton	9881	5332	7606
Oklon	9738	5141	7439
Maton II	9778	4844	7311
Wintergrazer 70	9353	5052	7203
Mean	9687	5092	7390
LSD (.05)	NS	NS	NS
CV %	8	11	9

Table 13. Dry forage production from cereal rye entries during the 2007-2008 growing season at Southeast Research Station, Franklinton, Louisiana.

Brand/Variety	Harvest Date			2007-08 Mean
	January 7	February 29	April 7	
	----- Dry forage, lb/acre -----			
Oklon	2131	2174	5950	10255
Maton	1657	2481	6043	10180
Maton II	2065	2841	5178	10084
Bates RS4	1859	2939	5228	10026
Wintergrazer 70	1879	3233	4885	9997
NF95307A	1792	2769	5139	9699
Mean	1897	2739	5404	10040
LSD (.05)	NS	570	579	NS
CV %	15	11	6	3

Table 14. Dry forage production from cereal rye entries during the 2007-2008 growing season at Rosepine Research Station, Rosepine, Louisiana.

Cult	December 10	February 7	March 20	2007-08
				Mean
----- Dry forage, lb/acre -----				
Maton	1342	1887	3722	6949
Oklon	1216	1660	3408	6284
Wintergrazer 70	1475	1926	2765	6166
Bates RS4	1335	1979	2777	6091
NF95307A	1313	1803	2687	5804
Maton II	1283	1723	2639	5645
Mean	1327	1830	3000	6156
LSD (.05)	NS	NS	679	NS
CV %	10	10	12	9

OATS

Oats (*Avena sativa*) produce high-quality forage during the early winter. Oats should be seeded at rates of 100 pounds per acre if planted alone or 60 pounds per acre if planted with annual ryegrass (which should be planted at 20 pounds per acre). Oats should be planted between September 1 and October 15 in northern Louisiana and between September 15 and October 15 in southern Louisiana if planted into a prepared seedbed and approximately October 15 if planted into an existing sod.

The oat variety tests were conducted at two LSU Agricultural Center research stations during the 2007-08 growing season (Table 15). Plots at both locations were planted as pure stands at the rate of 100 pounds per acre into a prepared seedbed. Phosphorus (P) and potassium (K) fertilizer was applied at all locations according to soil test recommendations made by the Louisiana Cooperative Extension Service. Total nitrogen (N) applied was between 150 and 170 pounds per acre in multiple applications at planting and post harvest. Originating agencies for oat varieties evaluated in the forage variety test during the 2007-08 growing season are listed in Appendix C.

Table 15. Planting dates and soil types of locations cooperating in the 2007-08 oat variety test.

Research Station	Location	Planting Date	Soil Type
Southeast	Franklinton	October 10, 2007	Tangi silt loam
Rosepine	Rosepine	October 4, 2007	Angie very fine sandy loam

Results of oat trials

Oat entry, location and statewide yield means for one, two and three years are presented in Tables 16, 17 and 18. Dry forage production from oat entries through the 2007-08 growing season at each location are presented in Tables 19 and 20. Varieties considered to have performed satisfactorily over the past three growing seasons and suggested for consideration in 2008 are LA99016 and Horizon 201. No currently available commercial varieties or brands are listed as promising for 2008.

Table 16. Dry forage production from oat entries during the 2007-2008 growing season at two locations in Louisiana.

Brand/Variety	Trial Locations		2007-08
	Rosepine	Franklinton	Statewide Mean
	----- Dry forage, lb/acre -----		
NF95418	6164	11670	8917
LA99017SBSBSB-275-C-B-S1	5385	11914	8650
LA99016	5073	11153	8113
PlotSpike LA 9339	4823	11327	8075
NF27	5568	10465	8017
LA02030-S-B-106-S1-B-S2	4919	10946	7933
LA02030-S-B-106-S1-B-S1	4503	10946	7725
Horizon 201	5087	10260	7674
FL99212-D6	3900	10878	7389
LA02030SBSBSB-S1	4209	9977	7093
LA02048SBSBSB-S1	4217	9759	6988
LA02048SBSBS27	4286	9617	6952
LA99011SBSBSB-45-B-S-B-S2	3252	8812	6032
Mean	4722	10594	7658
LSD (0.05)	746	1222	698
CV %	9	7	8

Table 17. Performance of oat entries in forage production evaluation trials in Louisiana during two years (2006-07 & 2007-08 growing seasons).

Brand/Variety	Trial Locations		2-Year
	Franklinton	Rosepine	Mean
	----- Dry forage, lb/acre -----		
NF95418	10759	4649	7704
LA02030-S-B-106-S1-B-S2	10583	4112	7347
NF27	9853	4493	7173
FL99212-D6	9879	4175	7027
LA99016	9716	4087	6901
Horizon 201	9297	3162	6229
LA99011SBSBSB-45-B-S-B-S2	7255	3056	5155
Mean	9620	3961	6791
LSD (.05)	1019	481	548
CV %	9	10	10

Table 18. Performance of oat entries in forage production evaluation trials in Louisiana during three years (2005-06, 2006-07 & 2007-08 growing seasons).

Brand/Variety	Trial Locations		3-Year Mean
	Franklinton	Rosepine	
	----- Dry forage, lb/acre -----		
LA99016	9388	4656	7022
FL99212-D6	8758	4675	6716
Horizon 201	8241	3679	5960
Mean	8796	4337	6566
LSD (.05)	NS	481	504
CV %	11	11	11

Table 19. Dry forage production from oat entries during the 2007-2008 growing season at Southeast Research Station, Franklinton, Louisiana.

Brand/Variety	Harvest Date			2007-08 Total
	Jan. 7	Feb. 29	Apr. 7	
	----- Dry forage, lb/acre -----			
LA99017SBSBSB-275-C-B-S1	1832	3659	5870	11914
NF95418	2471	3857	5342	11670
PlotSpike LA 9339	2355	3084	5888	11327
LA99016	2044	3626	5483	11153
LA02030-S-B-106-S1-B-S2	2076	2955	5915	10946
LA02030-S-B-106-S1-B-S1	2142	3285	5519	10946
FL99212-D6	1784	3300	5794	10878
NF27	2349	2837	5278	10465
Horizon 201	1994	3488	4778	10260
LA02030SBSBSB-S1	2061	3625	4291	9977
LA02048SBSBSB-S1	2127	3624	4009	9759
LA02048SBSBS27	1931	2661	5025	9617
LA99011SBSBSB-45-B-S-B-S2	1826	1686	5299	8812
Mean	2076	3206	5268	10594
LSD (0.05)	488	NS	NS	1222
CV %	14	22	20	7

Table 20. Dry forage production from oat entries during the 2007-2008 growing season at Rosepine Research Station, Rosepine, Louisiana.

Brand/Variety	Harvest Date			2007-08
	Dec. 10	Feb. 7	Mar. 20	Total
	----- Dry forage, lb/acre -----			
NF95418	1728	2012	2423	6164
NF27	1924	1583	2062	5568
LA99017SBSBSB-275-C-B-S1	1134	1990	2261	5385
Horizon 201	1806	1396	1885	5087
LA99016	1723	1664	1685	5073
LA02030-S-B-106-S1-B-S2	720	1975	2224	4919
PlotSpike LA 9339	1847	1368	1608	4823
LA02030-S-B-106-S1-B-S1	1038	1671	1794	4503
LA02048SBSBS27	1328	1570	1387	4286
LA02048SBSBSB-S1	1110	1798	1309	4217
LA02030SBSBSB-S1	1035	1728	1446	4209
FL99212-D6	1408	1290	1202	3900
LA99011SBSBSB-45-B-S-B-S2	1701	666	885	3252
Mean	1423	1593	1705	4722
LSD (0.05)	264	484	486	746
CV %	11	18	17	9

Appendix A. Originating Agencies for Annual Ryegrass Entries in 2007-2008 Forage Variety Tests.

Brand/Variety	Originating Agency
Attain, Big Boss, Ed, Verdure	Smith Seed Services, P.O. Box 288, Halsey, OR 97348
Beefbuilder III, Royal Flush	Forbes Seed & Grain, Inc., P.O. Box 85, Junction City, OR 97448
Diamond T, Dyna Gain, Flying A, DH3, FL/NE X2006 (Misc. 2X) LRCT, WD-40, 4X	Oregro Seeds, Inc., 33080 Red Bridge Rd. SE, Albany, OR 97322
FLX2002(LA3)LRCT	Lewis Seed Co., 31810 Fayetteville Drive, P.O. Box 100, Shedd, OR 97377
Gulf	Acquired locally
Jackson, Marshall, ME4, ME94, WMN97	The Wax Company, LLC, P.O. Box 60, Amory, MS 38821
Jumbo, Maximus	Barenbrug USA, 33477 Hwy 99E, P.O. Box 239, Tangent, OR 97389
MO 1	DLF International Seeds, P.O. Box 229, 175 West H St., Halsey, OR 97348
Passerel Plus, Shiwasuaoba	Pennington Seed, Inc., 1280 Atlanta Hwy., Madison, GA 30650
Prine	Ragan and Massey, 100 Ponchatoula Parkway, Ponchatoula, LA 70454
Rio	Pro Seeds Marketing, 13963 Westside Lane S, Jefferson, OR 97352
TAM 90	East Texas Seeds, P.O. Box 569, Tyler, TX 75710
TAM-TBO	Texas A & M Research and Extension Center, P. O. Box 200, Overton, TX 75684

Appendix B. Originating Agencies for Cereal Rye Entries in 2007-2008 Forage Variety Tests.

Brand/Variety	Originating Agency
Bates, Bates RSA, Maton, Maton II, NF95307A, Oklon	The Samuel Roberts Noble Foundation, Inc., P.O. Box 2180, Ardmore, OK 73402
Wintergrazer 70	Pennington Seed, Inc., 1280 Atlanta Hwy., Madison, GA 30650

Appendix C. Originating Agencies for Oat Varieties Entered in 2007-2008 Forage Variety Tests.

Brand/Variety	Originating Agency
PlotSpike LA9339	Ragan and Massey, 100 Ponchatoula Parkway, Ponchatoula, LA 70454
Horizon 201, FL99212	North Florida Research & Educ. Center, University of Florida, 155 Research Rd, Quincy, FL 32351
LA99016, LA02030-S-B-106-S1-B-S2, LA99011SBSBSB-45-B-S-B-S2, LA02030-S-B-106-S1-B-S1, LA02030SBSBSB-S1, LA02048SBSBS27, LA02048SBSBSB-S1, LA99017SBSBSB-275-C-B-S1	Agronomy Department, LSU AgCenter, Baton Rouge, LA 70803
NF 27, NF 95418	The Samuel Roberts Noble Foundation, Inc., P.O. Box 2180, Ardmore, OK 73402