

Performance of Ryegrass Varieties In Alabama, 2013-2014



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Dept. Series No. CSES2014:Ryegrass

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July 2014



Performance of Ryegrass Varieties in Alabama, 2013 - 2014
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The Alabama Experiment Station system evaluates variety performance of several crop species each year. Ryegrass studies were conducted in 2013 through 2014 at four locations across the state representing the northeast, central, southeast, and southwestern regions. The entries evaluated are chosen by private company, university, and federal staff. It is the mission of the experiment station to evaluate and present the data in a fair, unbiased manner that can be used by all sectors of industry and education.

Methods

Ryegrass entries were seeded at 20 lb/acre in 7-inch rows (Table 1). Plots were 5 x 20 ft with four replications of each entry arranged in a randomized complete block experimental design. The 2013 – 2014 trials were conducted at the Gulf Coast Research and Extension Center, Fairhope; E.V. Smith Research Center, Plant Breeding Unit, Tallassee; Sand Mountain Research and Extension Center, Crossville; and the Wiregrass Research and Extension Center, Headland.

Soil fertility was maintained at each location according to Auburn University soil test recommendations. At planting, nitrogen was applied at 50 lb/acre, with an additional 50 lb/acre N applied after each cutting. When the ryegrass reached a height of 6 to 10 inches, a flail harvester was used to cut the plants to 1 to 2 inches. According to the location, a section 32- or 49-in wide X 20 ft long from each plot was harvested. Dry matter yield was determined by drying subsamples from each variety and then calculated using fresh and dry weights.

Table 1. Planting dates and soil textures for Alabama ryegrass trial locations.

| | | Trial Years | | |
|------------|---|-----------------|-----------|-----------|
| Location | Alabama Exp. Station & soil texture | 2011-2012 | 2012-2013 | 2013-2014 |
| | | (planting date) | | |
| Crossville | Sand Mountain Research & Ext. Center Hartselle fine sandy loam | 3-Oct-11 | 25-Sep-12 | 13-Oct-13 |
| Fairhope | Gulf Coast Research & Ext. Center Malbis fine sandy loam | 14-Oct-11 | 24-Oct-12 | 11-Oct-13 |
| Headland | Wiregrass Research & Ext. Center Dothan fine sandy loam | 24-Oct-11 | 22-Oct-12 | 16-Oct-13 |
| Tallassee | Plant Breeding Unit, E.V. Smith Res. Ctr. Cahaba fine sandy loam | 14-Oct-11 | 24-Oct-12 | 11-Oct-13 |

Performance of Annual Ryegrass Variety in Alabama, 2014

Some varieties tested are considered experimental and are not currently available for retail sale. Experimental varieties included: 07-EW, 07-WW, GA-101-M, GA-102-A, GA-103-F, LL4X-1PS, M2 CVS, PSAR09-1, TARX 10-1, and TARX 10-6. Inclusion in these trials is not a guarantee of performance or yield; rather, our data shows how the varieties performed at a specific location under specific environmental conditions.

Tables

2014 Dry matter yields

Table 2. Gulf Coast Research & Extension Center, Fairhope, 2014

Table 3. Plant Breeding Unit, E.V. Smith Research Center, Tallassee, 2014

Table 4. Sand Mountain Research & Extension Center, Crossville, 2014

Table 5. Wiregrass Research & Extension Center, Headland, 2014

1-, 2-, and 3-year average yields

Table 6. Gulf Coast Research & Extension Center, Fairhope, 2012 - 2014

Table 7. Plant Breeding Unit, E.V. Smith Research Center, Tallassee, 2012 - 2014

Table 8. Sand Mountain Research & Extension Center, Crossville, 2012 - 2014

Table 9. Wiregrass Research & Extension Center, Headland, 2012 – 2014

Yield distribution X harvest date

Table 10. Gulf Coast Research & Extension Center, Fairhope, 2014

Table 11. Plant Breeding Unit, E.V. Smith Research Center, Tallassee, 2014

Table 12. Sand Mountain Research & Extension Center, Crossville, 2014

Table 13. Wiregrass Research & Extension Center, Headland, 2014

Table 2. Annual ryegrass variety performance, 2014

Gulf Coast Research & Extension Center, Fairhope AL*

| Dry Matter Yield by Harvest Timing | | | | | | |
|---|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Variety | First 18-Dec | Second 17-Feb | Third 10-Mar | Fourth 2-Apr | Fifth 13-May | Season total |
| | (lb/acre) | | | | | |
| Jackson | 3619 | 1559 | 1572 | 2283 | 2220 | 11252 |
| Marshall | 2332 | 1928 | 1584 | 2525 | 2599 | 10967 |
| Wax ME-4 | 2418 | 1853 | 1756 | 2317 | 2355 | 10699 |
| TARX 10-6 | 2547 | 1789 | 1633 | 1944 | 2340 | 10252 |
| GA-102-A | 2114 | 2003 | 1727 | 2053 | 2309 | 10206 |
| Striker | 2137 | 1718 | 1488 | 2179 | 2629 | 10150 |
| Fria | 2247 | 1742 | 1705 | 2285 | 2146 | 10125 |
| Nelson | 2433 | 1622 | 1564 | 1939 | 2558 | 10115 |
| M2CVS | 2097 | 1384 | 1536 | 2660 | 2391 | 10067 |
| Big Boss | 2222 | 1667 | 1549 | 2035 | 2565 | 10037 |
| Prine | 2143 | 1544 | 1599 | 2192 | 2510 | 9987 |
| Wax ME-94 | 2128 | 1631 | 1646 | 2270 | 2306 | 9982 |
| Diamond T | 2140 | 1628 | 1643 | 2015 | 2422 | 9847 |
| Winterhawk | 2014 | 1739 | 1717 | 2130 | 2172 | 9771 |
| 07-EW | 2028 | 1778 | 1652 | 2244 | 2038 | 9739 |
| Attain | 1774 | 1587 | 1580 | 2136 | 2577 | 9654 |
| DH-3 | 2347 | 1701 | 1634 | 2160 | 1784 | 9626 |
| Flying A | 2094 | 1845 | 1653 | 2132 | 1867 | 9590 |
| PSAR09-1 | 1836 | 1467 | 1497 | 1988 | 2762 | 9548 |
| Max | 1901 | 1604 | 1503 | 1968 | 2540 | 9516 |
| GA-103-F | 2093 | 1499 | 1775 | 2242 | 1879 | 9488 |
| Passerel Plus | 2054 | 1742 | 1685 | 2117 | 1816 | 9413 |
| LH 4X-1PS | 1950 | 1368 | 1399 | 2016 | 2628 | 9361 |
| TARX 10-1 | 1834 | 1649 | 1497 | 1975 | 2384 | 9338 |
| 07-WW | 1596 | 1801 | 1662 | 2092 | 2184 | 9334 |
| Ed | 1999 | 1539 | 1508 | 2218 | 2065 | 9328 |
| TAMTBO | 1949 | 1554 | 1541 | 1910 | 2362 | 9315 |
| GA-101-M | 1882 | 1435 | 1557 | 2121 | 2310 | 9305 |
| Gulf (Local) | 2116 | 1629 | 1552 | 2136 | 1751 | 9184 |
| KoGreen | 1553 | 1322 | 1536 | 2016 | 1945 | 8372 |
| Bulldog Grazer | 827 | 337 | 1157 | 1930 | 2153 | 6404 |
| LSD (0.10) | 709 | 272 | 170 | 165 | 261 | 855 |
| Trial mean | 2046 | 1599 | 1584 | 2110 | 2248 | 9572 |
| CV (%) | 29.8 | 14.5 | 9.1 | 6.6 | 9.9 | 7.6 |
| Pr>F | 0.0031 | 0.0001 | 0.0002 | 0.0001 | 0.0001 | 0.0001 |

*Planted on October 11, 2013 on a Malbis fine sandy loam.

Table 3. Annual ryegrass variety performance, 2014

Plant Breeding Unit, E.V. Smith Research Center, Tallassee AL*

| Dry Matter Yield by Harvest Timing | | | | |
|---|-------------------------|--------------------------|-------------------------|-------------------------|
| Variety | First 18-Dec | Second 21-Mar | Third 17-Apr | Season total |
| | (lb/acre) | | | |
| TAMTBO | 4546 | 1773 | 4822 | 11142 |
| Fria | 3952 | 1633 | 5200 | 10785 |
| Jackson | 4051 | 1817 | 4624 | 10492 |
| GA-103-F | 3914 | 1802 | 4496 | 10212 |
| Marshall | 3968 | 1862 | 4288 | 10118 |
| Diamond T | 3773 | 1964 | 4248 | 9985 |
| Nelson | 3572 | 1689 | 4566 | 9827 |
| Flying A | 3852 | 1555 | 4384 | 9791 |
| Winterhawk | 3949 | 1838 | 3872 | 9659 |
| Passerel Plus | 3529 | 1352 | 4653 | 9534 |
| TARX 10-1 | 3908 | 2321 | 3232 | 9461 |
| Big Boss | 3031 | 1795 | 4630 | 9455 |
| Prine | 3402 | 1863 | 4007 | 9272 |
| Wax ME-4 | 3780 | 2279 | 3135 | 9195 |
| GA-101-M | 3181 | 1394 | 4542 | 9117 |
| Attain | 3950 | 2053 | 3091 | 9095 |
| 07-WW | 3017 | 1563 | 4502 | 9082 |
| M2CVS | 3116 | 1811 | 4116 | 9043 |
| Gulf (Local) | 4507 | 2081 | 2452 | 9039 |
| KoGreen | 3490 | 1997 | 3435 | 8921 |
| 07-EW | 3835 | 1955 | 2869 | 8659 |
| DH-3 | 3531 | 1807 | 3266 | 8604 |
| TARX 10-6 | 3814 | 1582 | 3024 | 8419 |
| GA-102-A | 3242 | 1882 | 3264 | 8388 |
| Wax ME-94 | 2853 | 1843 | 3164 | 7860 |
| Bulldog Grazer | 2240 | 1279 | 3892 | 7411 |
| LSD (0.10) | NS* | NS | NS | NS |
| Trial mean | 3596 | 1815 | 3944 | 9356 |
| CV (%) | 23.9 | 31.2 | 32.5 | 18.2 |
| Pr>F | 0.1348 | 0.7307 | 0.1576 | 0.3280 |

*Planted on October 11, 2013 on a Cahaba fine sandy loam; NS, no statistical differences.

Table 4. Annual ryegrass variety performance, 2014

Sand Mountain Research & Extension Center, Crossville AL*

| Dry Matter Yield by Harvest Timing | | | | | | |
|------------------------------------|----------------|------------------|----------------|------------------|----------------|-----------------|
| Variety | First 3-Apr | Second 23-Apr | Third 5-May | Fourth 21-May | Fifth 3-Jun | Season total |
| | (lb/acre) | | | | | |
| Marshall | 1452 | 1511 | 887 | 1168 | 790 | 5808 |
| M2CVS | 997 | 1611 | 882 | 1164 | 873 | 5526 |
| DH-3 | 1406 | 1412 | 942 | 933 | 789 | 5481 |
| Jackson | 1121 | 1337 | 1025 | 1021 | 974 | 5477 |
| Wax ME-94 | 1021 | 1601 | 867 | 1156 | 749 | 5394 |
| Wax ME-4 | 807 | 1627 | 911 | 1209 | 795 | 5349 |
| LH 4X-1PS | 1081 | 1362 | 923 | 1005 | 844 | 5214 |
| GA-101-M | 881 | 1600 | 790 | 1094 | 794 | 5157 |
| Fria | 1084 | 1412 | 906 | 884 | 810 | 5096 |
| Flying A | 1118 | 1270 | 894 | 949 | 758 | 4988 |
| 07-WW | 825 | 1249 | 970 | 1083 | 802 | 4930 |
| Prine | 999 | 1220 | 875 | 1045 | 767 | 4907 |
| Passerel Plus | 973 | 1303 | 925 | 929 | 761 | 4891 |
| Ed | 939 | 1238 | 898 | 937 | 844 | 4856 |
| TARX 10-1 | 1082 | 1126 | 871 | 1032 | 681 | 4792 |
| GA-102-A | 1109 | 1242 | 865 | 941 | 609 | 4767 |
| Gulf (Local) | 1137 | 1106 | 956 | 863 | 683 | 4746 |
| Winterhawk | 604 | 1263 | 922 | 1038 | 881 | 4707 |
| Max | 863 | 1116 | 839 | 895 | 992 | 4704 |
| GA-103-F | 1050 | 1212 | 820 | 891 | 711 | 4684 |
| TAMTBO | 917 | 1083 | 956 | 988 | 737 | 4680 |
| Big Boss | 936 | 1170 | 842 | 1085 | 640 | 4673 |
| Striker | 1017 | 1153 | 817 | 929 | 738 | 4654 |
| 07-EW | 649 | 1267 | 856 | 1123 | 748 | 4643 |
| Diamond T | 897 | 1109 | 982 | 878 | 740 | 4604 |
| TARX 10-6 | 1006 | 1050 | 850 | 943 | 657 | 4505 |
| Nelson | 695 | 1119 | 820 | 977 | 747 | 4358 |
| KoGreen | 748 | 1067 | 879 | 938 | 717 | 4349 |
| PSAR09-1 | 649 | 1042 | 833 | 811 | 939 | 4274 |
| Attain | 699 | 1011 | 830 | 853 | 779 | 4172 |
| Bulldog Grazer | 231 | 514 | 563 | 832 | 736 | 2876 |
| LSD (0.10) | 345 | 217 | 134 | 141 | 129 | 644 |
| Trial mean | 926 | 1230 | 877 | 979 | 767 | 4779 |
| CV (%) | 31.7 | 15 | 13 | 12.3 | 14.3 | 11.5 |
| Pr>F | 0.0002 | 0.0001 | 0.0122 | 0.0001 | 0.0001 | 0.0001 |

*Planted on October 13, 2013 on a Hartselle fine sandy loam.

Table 5. Annual ryegrass variety performance, 2014

Wiregrass Research & Extension Center, Headland AL*

| Dry Matter Yield by Harvest Timing | | | | | | | |
|---|-------------------------|-------------------------|-------------------------|--------------------------|------------------------|------------------------|-------------------------|
| Variety | First 18-Dec | Second 7-Feb | Third 25-Feb | Fourth 14-Mar | Fifth 9-Apr | Sixth 6-May | Season total |
| | (lb/acre) | | | | | | |
| TAMTBO | 1011 | 1053 | 990 | 1350 | 2142 | 969 | 7515 |
| Marshall | 893 | 1041 | 924 | 1373 | 2478 | 771 | 7479 |
| Wax ME-4 | 835 | 998 | 893 | 1545 | 2300 | 725 | 7295 |
| Gulf (Local) | 779 | 1443 | 997 | 1274 | 2046 | 711 | 7249 |
| Flying A | 1049 | 1206 | 981 | 1310 | 2038 | 647 | 7231 |
| Passerel Plus | 671 | 1183 | 959 | 1359 | 2328 | 668 | 7166 |
| Fria | 721 | 922 | 939 | 1527 | 2325 | 727 | 7161 |
| GA-102-A | 610 | 1064 | 1054 | 1402 | 2113 | 906 | 7149 |
| Attain | 707 | 1011 | 970 | 1321 | 2056 | 1079 | 7144 |
| Wax ME-94 | 776 | 789 | 952 | 1595 | 2288 | 715 | 7114 |
| TARX 10-1 | 876 | 1082 | 1034 | 1187 | 2049 | 874 | 7102 |
| TARX 10-6 | 780 | 981 | 956 | 1245 | 2255 | 885 | 7100 |
| Diamond T | 768 | 1181 | 969 | 1266 | 2010 | 817 | 7012 |
| GA-103-F | 680 | 1064 | 1006 | 1389 | 2105 | 755 | 6998 |
| Nelson | 899 | 967 | 1065 | 1434 | 1903 | 727 | 6994 |
| Prine | 837 | 994 | 923 | 1284 | 2006 | 876 | 6920 |
| Big Boss | 808 | 1021 | 979 | 1355 | 1930 | 797 | 6890 |
| Ed | 838 | 996 | 923 | 1356 | 1987 | 790 | 6889 |
| DH-3 | 809 | 1090 | 894 | 1306 | 1984 | 768 | 6851 |
| Jackson | 534 | 808 | 1104 | 1580 | 2058 | 617 | 6700 |
| M2CVS | 679 | 650 | 845 | 1535 | 2243 | 740 | 6692 |
| 07-EW | 540 | 1146 | 840 | 1213 | 2107 | 680 | 6524 |
| Winterhawk | 606 | 759 | 918 | 1518 | 2041 | 682 | 6524 |
| GA-101-M | 559 | 698 | 870 | 1446 | 2174 | 656 | 6401 |
| 07-WW | 466 | 802 | 896 | 1412 | 2034 | 658 | 6267 |
| Bulldog Grazer | 195 | 400 | 859 | 1422 | 2210 | 833 | 5918 |
| KoGreen | 313 | 470 | 1013 | 1401 | 1962 | 675 | 5834 |
| LSD (0.10) | 163 | 237 | 127 | 166 | NS* | 152 | 791 |
| Trial mean | 687 | 956 | 977 | 1369 | 2100 | 765 | 6854 |
| CV (%) | 20.1 | 21 | 11.1 | 10.1 | 13 | 16.9 | 8.2 |
| Pr>F | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.2725 | 0.0003 | 0.0017 |
| *Planted on October 16, 2013 on a Dothan fine sandy loam; NS, no statistical differences. | | | | | | | |

Table 6. Average ryegrass dry matter production, 2012-2014

Gulf Coast Research & Extension Center, Fairhope AL

Average dry matter production*

| Variety | 1-year 2014 | 2-year 2013 - 2014 | 3-year 2012 - 2014 |
|---|------------------------|-------------------------------|-------------------------------|
| | (lb/acre) | | |
| Wax ME-4 | 10699 | 10091 | 9742 |
| Jackson | 11252 | 10239 | 9686 |
| Marshall | 10967 | 10168 | 9672 |
| M2CVS | 10067 | 9885 | 9428 |
| Wax ME-94 | 9982 | 9735 | 9391 |
| Fria | 10125 | 9714 | 9376 |
| Nelson | 10115 | 9530 | 9182 |
| Diamond T | 9847 | 9535 | 9125 |
| Prine | 9987 | 9473 | 9083 |
| 07-EW | 9739 | 9442 | 9022 |
| Passerel Plus | 9413 | 9418 | 8978 |
| TAMTBO | 9315 | 9189 | 8889 |
| Flying A | 9590 | 9346 | 8855 |
| DH-3 | 9626 | 9456 | 8849 |
| Winterhawk | 9771 | 9347 | 8837 |
| 07-WW | 9334 | 9136 | 8729 |
| Bulldog Grazer | 6404 | 7673 | 7382 |
| *Ranked in order of the 3-year average. | | | |

Table 7. Average ryegrass dry matter production, 2012 – 2014

Plant Breeding Unit, E.V. Smith Research Center, Tallassee

Average dry matter production*

| Variety | 1-Year 2014 | 2-Year 2013 - 2014 | 3-Year 2012 - 2014 |
|-----------------------------------|------------------------|-------------------------------|-------------------------------|
| (lb/acre) | | | |
| TAMTBO | 11142 | 11538 | 9932 |
| M2CVS | 9043 | 10441 | 9358 |
| Passerel Plus | 9534 | 10243 | 9270 |
| Marshall | 10118 | 10946 | 9250 |
| Fria | 10785 | 10499 | 9240 |
| Flying A | 9791 | 10252 | 9041 |
| Jackson | 10492 | 10307 | 9006 |
| Wax ME-94 | 7860 | 9701 | 8744 |
| Nelson | 9827 | 9733 | 8728 |
| Winterhawk | 9659 | 10020 | 8607 |
| Wax ME-4 | 9195 | 10102 | 8596 |
| 07-WW | 9082 | 9595 | 8536 |
| Prine | 9272 | 9596 | 8498 |
| Diamond T | 9985 | 9791 | 8449 |
| DH-3 | 8604 | 9137 | 8273 |
| 07-EW | 8659 | 9732 | 8138 |
| Bulldog Grazer | 7411 | 9470 | 8013 |
| *Ranking based on 3-year average. | | | |

Table 8. Average ryegrass dry matter production, 2012-2014

Sand Mountain Research & Extension Center, Crossville AL

Average dry matter production*

| Variety | 1-Year 2014 | 2-Year 2013 - 2014 | 3-Year 2012 - 2014 |
|-----------------------------------|------------------------|-------------------------------|-------------------------------|
| | (lb/acre) | | |
| Marshall | 5808 | 5268 | 5776 |
| Wax ME-94 | 5394 | 4708 | 5084 |
| DH-3 | 5481 | 4643 | 4946 |
| Prine | 4907 | 4456 | 4816 |
| M2CVS | 5526 | 4897 | 4796 |
| Fria | 5096 | 4293 | 4736 |
| Winterhawk | 4707 | 4455 | 4719 |
| Wax ME-4 | 5349 | 4372 | 4678 |
| TAMTBO | 4680 | 4577 | 4659 |
| Flying A | 4988 | 4076 | 4628 |
| 07-EW | 4643 | 4064 | 4540 |
| Passerel Plus | 4891 | 4268 | 4525 |
| Diamond T | 4604 | 4135 | 4499 |
| Jackson | 5477 | 4329 | 4323 |
| Nelson | 4358 | 4186 | 4302 |
| 07-WW | 4930 | 4276 | 4250 |
| Bulldog Grazer | 2876 | 2865 | 3424 |
| *Ranking based on 3-year average. | | | |

Table 9. Average ryegrass dry matter production, 2012-2014

Wiregrass Research & Extension Center, Headland AL

| Average dry matter production* | | | |
|---|------------------------|-------------------------------|-------------------------------|
| Variety | 1-Year 2014 | 2-Year 2013 - 2014 | 3-Year 2012 - 2014 |
| | (lb/acre) | | |
| TAMTBO | 7515 | 8659 | 8726 |
| Wax ME-4 | 7295 | 8308 | 8445 |
| Passerel Plus | 7166 | 8152 | 8364 |
| Winterhawk | 6524 | 8067 | 8279 |
| Marshall | 7479 | 7791 | 8242 |
| Wax ME-94 | 7114 | 8057 | 8230 |
| Fria | 7161 | 8053 | 8098 |
| M2CVS | 6692 | 7732 | 8041 |
| Nelson | 6994 | 7754 | 7973 |
| Prine | 6920 | 7862 | 7889 |
| Flying A | 7231 | 7583 | 7866 |
| 07-WW | 6267 | 7280 | 7812 |
| Jackson | 6700 | 7437 | 7733 |
| Diamond T | 7012 | 7427 | 7717 |
| 07-EW | 6524 | 7585 | 7716 |
| DH-3 | 6851 | 7382 | 7613 |
| Bulldog Grazer | 5918 | 7348 | 7456 |
| *Ranked in order of the 3-year average. | | | |

Table 10. Annual ryegrass yield distribution X harvest timing, 2014**Gulf Coast Research & Extension Center, Fairhope AL****Yield Distribution by Harvest Timing**

| Variety | First 18-Dec | Second 17-Feb | Third 10-Mar | Fourth 2-Apr | Fifth 13-May | Season total |
|----------------|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | (% of total) | | | | | |
| 07-EW | 21 | 18 | 17 | 23 | 21 | 100 |
| 07-WW | 17 | 19 | 18 | 22 | 23 | 100 |
| Attain | 18 | 16 | 16 | 22 | 27 | 100 |
| Big Boss | 22 | 17 | 15 | 20 | 26 | 100 |
| Bulldog Grazer | 13 | 5 | 18 | 30 | 34 | 100 |
| DH-3 | 24 | 18 | 17 | 22 | 19 | 100 |
| Diamond T | 22 | 17 | 17 | 20 | 25 | 100 |
| Ed | 21 | 16 | 16 | 24 | 22 | 100 |
| Flying A | 22 | 19 | 17 | 22 | 19 | 100 |
| Fria | 22 | 17 | 17 | 23 | 21 | 100 |
| GA-101-M | 20 | 15 | 17 | 23 | 25 | 100 |
| GA-102-A | 21 | 20 | 17 | 20 | 23 | 100 |
| GA-103-F | 22 | 16 | 19 | 24 | 20 | 100 |
| Gulf (Local) | 23 | 18 | 17 | 23 | 19 | 100 |
| Jackson | 32 | 14 | 14 | 20 | 20 | 100 |
| KoGreen | 19 | 16 | 18 | 24 | 23 | 100 |
| LH 4X-1PS | 21 | 15 | 15 | 22 | 28 | 100 |
| M2CVS | 21 | 14 | 15 | 26 | 24 | 100 |
| Marshall | 21 | 18 | 14 | 23 | 24 | 100 |
| Max | 20 | 17 | 16 | 21 | 27 | 100 |
| Nelson | 24 | 16 | 15 | 19 | 25 | 100 |
| Passerel Plus | 22 | 19 | 18 | 22 | 19 | 100 |
| Prine | 21 | 15 | 16 | 22 | 25 | 100 |
| PSAR09-1 | 19 | 15 | 16 | 21 | 29 | 100 |
| Striker | 21 | 17 | 15 | 21 | 26 | 100 |
| TAMTBO | 21 | 17 | 17 | 20 | 25 | 100 |
| TARX 10-1 | 20 | 18 | 16 | 21 | 26 | 100 |
| TARX 10-6 | 25 | 17 | 16 | 19 | 23 | 100 |
| Wax ME-4 | 23 | 17 | 16 | 22 | 22 | 100 |
| Wax ME-94 | 21 | 16 | 16 | 23 | 23 | 100 |
| Winterhawk | 21 | 18 | 18 | 22 | 22 | 100 |

Table 11. Annual ryegrass yield distribution X harvest timing, 2014

Plant Breeding Unit, E.V. Smith Research Center, Tallassee AL

| Yield Distribution by Harvest Timing | | | | |
|---|-------------------------|--------------------------|-------------------------|-------------------------|
| Variety | First 18-Dec | Second 21-Mar | Third 17-Apr | Season total |
| | (% of total) | | | |
| 07-EW | 44 | 23 | 33 | 100 |
| 07-WW | 33 | 17 | 50 | 100 |
| Attain | 43 | 23 | 34 | 100 |
| Big Boss | 32 | 19 | 49 | 100 |
| Bulldog Grazer | 30 | 17 | 53 | 100 |
| DH-3 | 41 | 21 | 38 | 100 |
| Diamond T | 38 | 20 | 43 | 100 |
| Flying A | 39 | 16 | 45 | 100 |
| Fria | 37 | 15 | 48 | 100 |
| GA-101-M | 35 | 15 | 50 | 100 |
| GA-102-A | 39 | 22 | 39 | 100 |
| GA-103-F | 38 | 18 | 44 | 100 |
| Gulf (Local) | 50 | 23 | 27 | 100 |
| Jackson | 39 | 17 | 44 | 100 |
| KoGreen | 39 | 22 | 38 | 100 |
| M2CVS | 34 | 20 | 46 | 100 |
| Marshall | 39 | 18 | 42 | 100 |
| Nelson | 36 | 17 | 46 | 100 |
| Passerel Plus | 37 | 14 | 49 | 100 |
| Prine | 37 | 20 | 43 | 100 |
| TAMTBO | 41 | 16 | 43 | 100 |
| TARX 10-1 | 41 | 25 | 34 | 100 |
| TARX 10-6 | 45 | 19 | 36 | 100 |
| Wax ME-4 | 41 | 25 | 34 | 100 |
| Wax ME-94 | 36 | 23 | 40 | 100 |
| Winterhawk | 41 | 19 | 40 | 100 |

Table 12. Annual ryegrass yield distribution X harvest timing, 2014

Sand Mountain Research & Extension Center, Crossville AL

| Yield Distribution by Harvest Timing | | | | | | |
|---|------------------------|--------------------------|------------------------|--------------------------|------------------------|-------------------------|
| Variety | First 3-Apr | Second 23-Apr | Third 5-May | Fourth 21-May | Fifth 3-Jun | Season total |
| | (% of total) | | | | | |
| 07-EW | 14 | 27 | 18 | 24 | 16 | 100 |
| 07-WW | 17 | 25 | 20 | 22 | 16 | 100 |
| Attain | 17 | 24 | 20 | 20 | 19 | 100 |
| Big Boss | 20 | 25 | 18 | 23 | 14 | 100 |
| Bulldog Grazer | 8 | 18 | 20 | 29 | 26 | 100 |
| DH-3 | 26 | 26 | 17 | 17 | 14 | 100 |
| Diamond T | 19 | 24 | 21 | 19 | 16 | 100 |
| Ed | 19 | 25 | 18 | 19 | 17 | 100 |
| Flying A | 22 | 25 | 18 | 19 | 15 | 100 |
| Fria | 21 | 28 | 18 | 17 | 16 | 100 |
| GA-101-M | 17 | 31 | 15 | 21 | 15 | 100 |
| GA-102-A | 23 | 26 | 18 | 20 | 13 | 100 |
| GA-103-F | 22 | 26 | 17 | 19 | 15 | 100 |
| Gulf (Local) | 24 | 23 | 20 | 18 | 14 | 100 |
| Jackson | 20 | 24 | 19 | 19 | 18 | 100 |
| KoGreen | 17 | 25 | 20 | 22 | 16 | 100 |
| LH 4X-1PS | 21 | 26 | 18 | 19 | 16 | 100 |
| M2CVS | 18 | 29 | 16 | 21 | 16 | 100 |
| Marshall | 25 | 26 | 15 | 20 | 14 | 100 |
| Max | 18 | 24 | 18 | 19 | 21 | 100 |
| Nelson | 16 | 26 | 19 | 22 | 17 | 100 |
| Passerel Plus | 20 | 27 | 19 | 19 | 16 | 100 |
| Prine | 20 | 25 | 18 | 21 | 16 | 100 |
| PSAR09-1 | 15 | 24 | 19 | 19 | 22 | 100 |
| Striker | 22 | 25 | 18 | 20 | 16 | 100 |
| TAMTBO | 20 | 23 | 20 | 21 | 16 | 100 |
| TARX 10-1 | 23 | 23 | 18 | 22 | 14 | 100 |
| TARX 10-6 | 22 | 23 | 19 | 21 | 15 | 100 |
| Wax ME-4 | 15 | 30 | 17 | 23 | 15 | 100 |
| Wax ME-94 | 19 | 30 | 16 | 21 | 14 | 100 |
| Winterhawk | 13 | 27 | 20 | 22 | 19 | 100 |

Table 13. Annual ryegrass yield distribution X harvest timing, 2014

Wiregrass Research & Extension Center, Headland AL

| Yield Distribution by Harvest Timing | | | | | | | |
|--------------------------------------|-----------------|-----------------|-----------------|------------------|----------------|----------------|-----------------|
| Variety | First 18-Dec | Second 7-Feb | Third 25-Feb | Fourth 14-Mar | Fifth 9-Apr | Sixth 6-May | Season total |
| | (% of total) | | | | | | |
| 07-EW | 8 | 18 | 13 | 19 | 32 | 10 | 100 |
| 07-WW | 7 | 13 | 14 | 23 | 32 | 11 | 100 |
| Attain | 10 | 14 | 14 | 18 | 29 | 15 | 100 |
| Big Boss | 12 | 15 | 14 | 20 | 28 | 12 | 100 |
| Bulldog Grazer | 3 | 7 | 15 | 24 | 37 | 14 | 100 |
| DH-3 | 12 | 16 | 13 | 19 | 29 | 11 | 100 |
| Diamond T | 11 | 17 | 14 | 18 | 29 | 12 | 100 |
| Ed | 12 | 14 | 13 | 20 | 29 | 11 | 100 |
| Flying A | 15 | 17 | 14 | 18 | 28 | 9 | 100 |
| Fria | 10 | 13 | 13 | 21 | 32 | 10 | 100 |
| GA-101-M | 9 | 11 | 14 | 23 | 34 | 10 | 100 |
| GA-102-A | 9 | 15 | 15 | 20 | 30 | 13 | 100 |
| GA-103-F | 10 | 15 | 14 | 20 | 30 | 11 | 100 |
| Gulf (Local) | 11 | 20 | 14 | 18 | 28 | 10 | 100 |
| Jackson | 8 | 12 | 16 | 24 | 31 | 9 | 100 |
| KoGreen | 5 | 8 | 17 | 24 | 34 | 12 | 100 |
| M2CVS | 10 | 10 | 13 | 23 | 34 | 11 | 100 |
| Marshall | 12 | 14 | 12 | 18 | 33 | 10 | 100 |
| Nelson | 13 | 14 | 15 | 20 | 27 | 10 | 100 |
| Passerel Plus | 9 | 17 | 13 | 19 | 32 | 9 | 100 |
| Prine | 12 | 14 | 13 | 19 | 29 | 13 | 100 |
| TAMTBO | 13 | 14 | 13 | 18 | 29 | 13 | 100 |
| TARX 10-1 | 12 | 15 | 15 | 17 | 29 | 12 | 100 |
| TARX 10-6 | 11 | 14 | 13 | 18 | 32 | 12 | 100 |
| Wax ME-4 | 11 | 14 | 12 | 21 | 32 | 10 | 100 |
| Wax ME-94 | 11 | 11 | 13 | 22 | 32 | 10 | 100 |
| Winterhawk | 9 | 12 | 14 | 23 | 31 | 10 | 100 |

Acknowledgements

We would like to express our appreciation for the work and dedication of the supervisory and staff personnel of the Alabama Experiment Station outlying units without whom this work would not be possible. Thanks are also expressed to the producers and citizens of Alabama for supporting research on the production of food and fiber across our state.

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Issued in cooperation with the Alabama Cooperative Extension System, Dr. Gary Lemme, Director

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