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

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Performance of Cool-season Annual Forage Crops in Louisiana, 2007-2008

M. W. Alison¹, J. L. Ashley¹, Tara Doughty², Kun Jun Han², W. D. Pitman³, Jerry Simmons², E. K. Twidwell⁵, H.P. Viator⁴, Greg Williams⁴ and C. C. Willis⁶

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.

¹Associate Professor and Research Specialist II, LSU Agricultural Center, Northeast Research Station – Macon Ridge Location, Winnsboro, LA 71295. ²Research Associate, Assistant Professor and Research Associate, LSU Agricultural Center, Southeast Research Station, Franklinton, LA 70438. ³Professor, LSU Agricultural Center, Hill Farm Research Station, Homer, LA 71040 ⁴Professor and Research Associate, LSU Agricultural Center, Iberia Research Station, Jeanerette, LA 70544. ⁵Specialist (Agronomy), LSU Agricultural Center, Baton Rouge, LA 70803. ⁶Research Associate, LSU Agricultural Center, Rosepine Research Station, Rosepine, LA 70659.
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.

<table>
<thead>
<tr>
<th>Research Station</th>
<th>Location</th>
<th>Planting Date</th>
<th>Soil Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southeast</td>
<td>Franklinton</td>
<td>October 10, 2007</td>
<td>Tangi silt loam</td>
</tr>
<tr>
<td>Iberia</td>
<td>Jeanerette</td>
<td>October 11, 2007</td>
<td>Baldwin silty clay</td>
</tr>
<tr>
<td>Rosepine</td>
<td>Rosepine</td>
<td>October 3, 2007</td>
<td>Malbis fine sandy loam</td>
</tr>
<tr>
<td>Macon Ridge</td>
<td>Winnsboro</td>
<td>October 22, 2007</td>
<td>Gigger silt loam</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Brand/Variety</th>
<th>Trial Locations</th>
<th>2007-08 Mean</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Franklinton</td>
<td>Iberia</td>
</tr>
<tr>
<td>ME4</td>
<td>13724</td>
<td>10671</td>
</tr>
<tr>
<td>Marshall</td>
<td>13694</td>
<td>10055</td>
</tr>
<tr>
<td>Big Boss</td>
<td>12622</td>
<td>10829</td>
</tr>
<tr>
<td>Attain</td>
<td>13423</td>
<td>10341</td>
</tr>
<tr>
<td>TAMTBO</td>
<td>13470</td>
<td>10773</td>
</tr>
<tr>
<td>Jackson</td>
<td>14042</td>
<td>9950</td>
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<tr>
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<td>14865</td>
<td>10079</td>
</tr>
<tr>
<td>Rio</td>
<td>14202</td>
<td>9950</td>
</tr>
<tr>
<td>Passerel Plus</td>
<td>13375</td>
<td>10277</td>
</tr>
<tr>
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<td>10194</td>
</tr>
<tr>
<td>4X</td>
<td>12525</td>
<td>10774</td>
</tr>
<tr>
<td>Royal Flush</td>
<td>13571</td>
<td>10422</td>
</tr>
<tr>
<td>ME94</td>
<td>13346</td>
<td>9973</td>
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<tr>
<td>Ed</td>
<td>12498</td>
<td>10555</td>
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<tr>
<td>Diamond T</td>
<td>12990</td>
<td>10309</td>
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<td>10128</td>
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<tr>
<td>MO 1</td>
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<td>9883</td>
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<tr>
<td>Prine</td>
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<td>10362</td>
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<tr>
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<tr>
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<td>10456</td>
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<tr>
<td>Dyna Gain</td>
<td>12540</td>
<td>10433</td>
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<td>10366</td>
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<tr>
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<td>12658</td>
<td>10449</td>
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<tr>
<td>TAM 90</td>
<td>12666</td>
<td>9907</td>
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<tr>
<td>Jumbo</td>
<td>13435</td>
<td>9998</td>
</tr>
<tr>
<td>Gulf</td>
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<td>10286</td>
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<td>11435</td>
<td>9080</td>
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<tr>
<td>Mean</td>
<td>13060</td>
<td>10224</td>
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<tr>
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<td>NS</td>
<td>599</td>
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<tr>
<td>CV %</td>
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Table 3. Mean dry forage production from annual ryegrass entries at three locations in Louisiana during two growing seasons, 2006-2007 and 2007-2008.

<table>
<thead>
<tr>
<th>Brand/Variety</th>
<th>Trial Locations</th>
<th>2-Year Mean</th>
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<td>Rio</td>
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<td>Jackson</td>
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<td>8995</td>
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<tr>
<td>Diamond T</td>
<td>13235</td>
<td>8667</td>
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<tr>
<td>Jumbo</td>
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<td>8974</td>
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<td>ME94</td>
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<td>8476</td>
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<tr>
<td>CV %</td>
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<td>6</td>
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</table>
Table 4. Mean dry forage production from annual ryegrass entries at three locations in Louisiana during three growing seasons, 2005-2006 through 2007-2008.

<table>
<thead>
<tr>
<th>Brand/Variety</th>
<th>Trial Locations</th>
<th>3-Year Mean</th>
</tr>
</thead>
<tbody>
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<tr>
<td>ME4</td>
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Table 5. Dry forage production from annual ryegrass entries during the 2007-2008 growing season at Southeast Research Station, Franklinton, Louisiana

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<th>Brand/Variety</th>
<th>Harvest Date</th>
<th>2007-08 Total</th>
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<tbody>
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<td></td>
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<td>1539</td>
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Table 7. Dry forage production from annual ryegrass entries during the 2007-2008 growing season at Rosepine Research Station, Rosepine, LA

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

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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>
<thead>
<tr>
<th>Research Station</th>
<th>Location</th>
<th>Planting Date</th>
<th>Soil Type</th>
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<td>Tangi silt loam</td>
</tr>
<tr>
<td>Rosepine</td>
<td>Rosepine</td>
<td>October 4, 2007</td>
<td>Angie very fine sandy loam</td>
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</table>

**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

<table>
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<th>Brand/Variety</th>
<th>Trial Locations</th>
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Table 11. Performance of cereal rye entries in forage production evaluation trials in Louisiana during two years (2006-07 & 2007-08 growing seasons).

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

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

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

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<td>NF95307A</td>
<td>1313</td>
<td>1803</td>
<td>2687</td>
<td>5804</td>
</tr>
<tr>
<td>Maton II</td>
<td>1283</td>
<td>1723</td>
<td>2639</td>
<td>5645</td>
</tr>
<tr>
<td>Mean</td>
<td>1327</td>
<td>1830</td>
<td>3000</td>
<td>6156</td>
</tr>
<tr>
<td>LSD (.05)</td>
<td>NS</td>
<td>NS</td>
<td>679</td>
<td>NS</td>
</tr>
<tr>
<td>CV %</td>
<td>10</td>
<td>10</td>
<td>12</td>
<td>9</td>
</tr>
</tbody>
</table>
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>
<thead>
<tr>
<th>Research Station</th>
<th>Location</th>
<th>Planting Date</th>
<th>Soil Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southeast</td>
<td>Franklinton</td>
<td>October 10, 2007</td>
<td>Tangi silt loam</td>
</tr>
<tr>
<td>Rosepine</td>
<td>Rosepine</td>
<td>October 4, 2007</td>
<td>Angie very fine sandy loam</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Brand/Variety</th>
<th>Trial Locations</th>
<th>2007-08 Statewide</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rosepine</td>
<td>Franklinton</td>
</tr>
<tr>
<td>--------------</td>
<td>---------</td>
<td>------------</td>
</tr>
<tr>
<td>NF95418</td>
<td>6164</td>
<td>11670</td>
</tr>
<tr>
<td>LA99017SBSBSB-275-C-B-S1</td>
<td>5385</td>
<td>11914</td>
</tr>
<tr>
<td>LA99016</td>
<td>5073</td>
<td>11153</td>
</tr>
<tr>
<td>PlotSpike LA 9339</td>
<td>4823</td>
<td>11327</td>
</tr>
<tr>
<td>NF27</td>
<td>5568</td>
<td>10465</td>
</tr>
<tr>
<td>LA02030-S-B-106-S1-B-S2</td>
<td>4919</td>
<td>10946</td>
</tr>
<tr>
<td>LA02030-S-B-106-S1-B-S1</td>
<td>4503</td>
<td>10946</td>
</tr>
<tr>
<td>Horizon 201</td>
<td>5087</td>
<td>10260</td>
</tr>
<tr>
<td>FL99212-D6</td>
<td>3900</td>
<td>10878</td>
</tr>
<tr>
<td>LA99016</td>
<td>9879</td>
<td>4175</td>
</tr>
<tr>
<td>LA99011SBSBSB-45-B-S-B-S2</td>
<td>7255</td>
<td>3162</td>
</tr>
<tr>
<td>Mean</td>
<td>4722</td>
<td>10594</td>
</tr>
<tr>
<td>LSD (0.05)</td>
<td>746</td>
<td>1222</td>
</tr>
<tr>
<td>CV %</td>
<td>9</td>
<td>7</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Brand/Variety</th>
<th>Trial Locations</th>
<th>2-Year Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rosepine</td>
<td>Franklinton</td>
</tr>
<tr>
<td>--------------</td>
<td>---------</td>
<td>------------</td>
</tr>
<tr>
<td>NF95418</td>
<td>10759</td>
<td>4649</td>
</tr>
<tr>
<td>LA02030-S-B-106-S1-B-S2</td>
<td>10583</td>
<td>4112</td>
</tr>
<tr>
<td>NF27</td>
<td>9853</td>
<td>4493</td>
</tr>
<tr>
<td>FL99212-D6</td>
<td>9879</td>
<td>4175</td>
</tr>
<tr>
<td>LA99016</td>
<td>9716</td>
<td>4087</td>
</tr>
<tr>
<td>Horizon 201</td>
<td>9297</td>
<td>3162</td>
</tr>
<tr>
<td>LA99011SBSBSB-45-B-S-B-S2</td>
<td>7255</td>
<td>3056</td>
</tr>
<tr>
<td>Mean</td>
<td>9620</td>
<td>3961</td>
</tr>
<tr>
<td>LSD (.05)</td>
<td>1019</td>
<td>481</td>
</tr>
<tr>
<td>CV %</td>
<td>9</td>
<td>10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trial Locations</th>
<th>3-Year Mean</th>
<th>Franklinton</th>
<th>Rosepine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand/Variety</td>
<td>Dry forage, lb/acre</td>
<td>9388</td>
<td>4656</td>
</tr>
<tr>
<td>LA99016</td>
<td></td>
<td>8758</td>
<td>4675</td>
</tr>
<tr>
<td>Horizon 201</td>
<td></td>
<td>8241</td>
<td>3679</td>
</tr>
<tr>
<td>Mean</td>
<td></td>
<td>8796</td>
<td>4337</td>
</tr>
<tr>
<td>LSD (.05)</td>
<td></td>
<td>NS</td>
<td>481</td>
</tr>
<tr>
<td>CV %</td>
<td></td>
<td>11</td>
<td>11</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Brand/Variety</th>
<th>Harvest Date</th>
<th>2007-08 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jan. 7</td>
<td>Feb. 29</td>
</tr>
<tr>
<td>LA99017SBSBSB-275-C-B-S1</td>
<td>1832</td>
<td>3659</td>
</tr>
<tr>
<td>NF95418</td>
<td>2471</td>
<td>3857</td>
</tr>
<tr>
<td>PlotSpike LA 9339</td>
<td>2355</td>
<td>3084</td>
</tr>
<tr>
<td>LA99016</td>
<td>2044</td>
<td>3626</td>
</tr>
<tr>
<td>LA02030-S-B-106-S1-B-S2</td>
<td>2076</td>
<td>2955</td>
</tr>
<tr>
<td>LA02030-S-B-106-S1-B-S1</td>
<td>2142</td>
<td>3285</td>
</tr>
<tr>
<td>FL99212-D6</td>
<td>1784</td>
<td>3300</td>
</tr>
<tr>
<td>NF27</td>
<td>2349</td>
<td>2837</td>
</tr>
<tr>
<td>Horizon 201</td>
<td>1994</td>
<td>3488</td>
</tr>
<tr>
<td>LA02030SBSBSB-S1</td>
<td>2061</td>
<td>3625</td>
</tr>
<tr>
<td>LA02048SBSBSB-S1</td>
<td>2127</td>
<td>3624</td>
</tr>
<tr>
<td>LA02048SBSBS27</td>
<td>1931</td>
<td>2661</td>
</tr>
<tr>
<td>LA99011SBSBSB-45-B-S-B-S2</td>
<td>1826</td>
<td>1686</td>
</tr>
<tr>
<td>Mean</td>
<td>2076</td>
<td>3206</td>
</tr>
<tr>
<td>LSD (0.05)</td>
<td>488</td>
<td>NS</td>
</tr>
<tr>
<td>CV %</td>
<td>14</td>
<td>22</td>
</tr>
</tbody>
</table>
Table 20. Dry forage production from oat entries during the 2007-2008 growing season at Rosepine Research Station, Rosepine, Louisiana.

<table>
<thead>
<tr>
<th>Brand/Variety</th>
<th>Harvest Date</th>
<th>2007-08 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dec. 10</td>
<td>Feb. 7</td>
</tr>
<tr>
<td></td>
<td>Dry forage, lb/acre</td>
<td></td>
</tr>
<tr>
<td>NF95418</td>
<td>1728</td>
<td>2012</td>
</tr>
<tr>
<td>NF27</td>
<td>1924</td>
<td>1583</td>
</tr>
<tr>
<td>LA99017SBSBSB-275-C-B-S1</td>
<td>1134</td>
<td>1990</td>
</tr>
<tr>
<td>Horizon 201</td>
<td>1806</td>
<td>1396</td>
</tr>
<tr>
<td>LA99016</td>
<td>1723</td>
<td>1664</td>
</tr>
<tr>
<td>LA02030-S-B-106-S1-B-S2</td>
<td>720</td>
<td>1975</td>
</tr>
<tr>
<td>PlotSpike LA 9339</td>
<td>1847</td>
<td>1368</td>
</tr>
<tr>
<td>LA02030-S-B-106-S1-B-S1</td>
<td>1038</td>
<td>1671</td>
</tr>
<tr>
<td>LA02048SBSBS27</td>
<td>1328</td>
<td>1570</td>
</tr>
<tr>
<td>LA02048SBSBSB-S1</td>
<td>1110</td>
<td>1798</td>
</tr>
<tr>
<td>LA02030SBSBSB-S1</td>
<td>1035</td>
<td>1728</td>
</tr>
<tr>
<td>FL99212-D6</td>
<td>1408</td>
<td>1290</td>
</tr>
<tr>
<td>LA99011SBSBSB-45-B-S-B-S2</td>
<td>1701</td>
<td>666</td>
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</table>

Mean: 1423 1593 1705 4722

LSD (0.05): 264 484 486 746

CV %: 11 18 17 9

<table>
<thead>
<tr>
<th>Brand/Variety</th>
<th>Originating Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attain, Big Boss, Ed, Verdure</td>
<td>Smith Seed Services, P.O. Box 288, Halsey, OR 97348</td>
</tr>
<tr>
<td>Beefbuilder III, Royal Flush</td>
<td>Forbes Seed &amp; Grain, Inc., P.O. Box 85, Junction City, OR 97448</td>
</tr>
<tr>
<td>FLX2002(LA3)LRCT</td>
<td>Lewis Seed Co., 31810 Fayetteville Drive, P.O. Box 100, Shedd, OR 97377</td>
</tr>
<tr>
<td>Gulf</td>
<td>Acquired locally</td>
</tr>
<tr>
<td>Jackson, Marshall, ME4, ME94, WMN97</td>
<td>The Wax Company, LLC, P.O. Box 60, Amory, MS 38821</td>
</tr>
<tr>
<td>Jumbo, Maximus</td>
<td>Barenbrug USA, 33477 Hwy 99E, P.O. Box 239, Tangent, OR 97389</td>
</tr>
<tr>
<td>MO 1</td>
<td>DLF International Seeds, P.O. Box 229, 175 West H St., Halsey, OR 97348</td>
</tr>
<tr>
<td>Passerel Plus, Shiwasuaoba</td>
<td>Pennington Seed, Inc., 1280 Atlanta Hwy., Madison, GA 30650</td>
</tr>
<tr>
<td>Prine</td>
<td>Ragan and Massey, 100 Ponchatoula Parkway, Ponchatoula, LA 70454</td>
</tr>
<tr>
<td>Rio</td>
<td>Pro Seeds Marketing, 13963 Westside Lane S, Jefferson, OR 97352</td>
</tr>
<tr>
<td>TAM 90</td>
<td>East Texas Seeds, P.O. Box 569, Tyler, TX 75710</td>
</tr>
<tr>
<td>TAM-TBO</td>
<td>Texas A &amp; M Research and Extension Center, P. O. Box 200, Overton, TX 75684</td>
</tr>
</tbody>
</table>

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


<table>
<thead>
<tr>
<th>Brand/Variety</th>
<th>Originating Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>PlotSpike LA9339</td>
<td>Ragan and Massey, 100 Ponchatoula Parkway, Ponchatoula, LA 70454</td>
</tr>
<tr>
<td>Horizon 201, FL99212</td>
<td>North Florida Research &amp; Educ. Center, University of Florida, 155 Research Rd, Quincy, FL 32351</td>
</tr>
<tr>
<td>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</td>
<td>Agronomy Department, LSU AgCenter, Baton Rouge, LA 70803</td>
</tr>
<tr>
<td>NF 27, NF 95418</td>
<td>The Samuel Roberts Noble Foundation, Inc., P.O. Box 2180, Ardmore, OK 73402</td>
</tr>
</tbody>
</table>