**The Georgia Agricultural Experiment Stations**
**Department of Crop and Soil Sciences**
**College of Agricultural and Environmental Sciences**
**University of Georgia Griffin Campus**

**Annual Publication 100-9**
**July 2017**

# Georgia
# 2016-2017 Small Grain Performance Tests

Daniel J. Mailhot, Dustin Dunn, Henry Jordan, Jr.,
John D. Gassett, and J. LaDon Day
*Editors*

**Wheat**

**Oat**

**Rye**

**Triticale**

**Barley**

**Ryegrass**

## Conversion Table

| **U.S.** *Abbr.* | *Unit* | *Approximate Metric Equivalent* |
|---|---|---|
| | **Length** | |
| mi | mile | 1.609 kilometers |
| yd | yard | 0.9144 meters |
| ft *or* ' | foot | 30.48 centimeters |
| in *or* " | inch | 2.54 centimeters |
| | **Area** | |
| sq mi *or* $mi^2$ | square mile | 2.59 square kilometers |
| acre | acre | 0.405 hectares *or* 4047 square meters |
| sq ft *or* $ft^2$ | square foot | 0.093 square meters |
| | **Volume/Capacity** | |
| gal | gallon | 3.785 liters |
| qt | quart | 0.946 liters |
| pt | pint | 0.473 liters |
| fl oz | fluid ounce | 29.573 milliliters or 28.416 cubic centimeters |
| bu | bushel | 35.238 liters |
| cu ft *or* $ft^3$ | cubic foot | 0.028 cubic meters |
| | **Mass/Weight** | |
| ton | ton | 0.907 metric ton |
| lb | pound | 0.453 kilogram |
| oz | ounce | 28.349 grams |

| **Metric** *Abbr.* | *Unit* | *Approximate U.S. Equivalent* |
|---|---|---|
| | **Length** | |
| km | kilometer | 0.62 mile |
| m | meter | 39.37 inches *or* 1.09 yards |
| cm | centimeter | 0.39 inch |
| mm | millimeter | 0.04 inch |
| | **Area** | |
| ha | hectare | 2.47 acres |
| | **Volume/Capacity** | |
| liter | liter | 61.02 cubic inches *or* 1.057 quarts |
| ml | milliliter | 0.06 cubic inch *or* 0.034 fluid ounce |
| cc | cubic centimeter | 0.061 cubic inch *or* 0.035 fluid ounce |
| | **Mass/Weight** | |
| MT | metric ton | 1.1 tons |
| kg | kilogram | 2.205 pounds |
| g | gram | 0.035 ounce |
| mg | milligram | $3.5 \times 10^{-5}$ ounce |



**ISSN 0072-128X**

# PREFACE

This research report presents results of the 2016-2017 performance tests of small grains grown for grain and forage. Grain evaluation studies were conducted at five locations in Georgia, including Tifton, Plains, and Midville in the Coastal Plain region; Athens in the Piedmont region; and Calhoun in the Limestone Valley region. Small grain forage evaluation tests were conducted at four locations in Georgia/Florida, including Tifton and Plains in the Coastal Plain region, Athens in the Piedmont region, Calhoun in the Limestone Valley region, and in Marianna, Florida. Prior to 2017, Piedmont region trials were located in Griffin. For identification of the test locations, consult the map inside the back cover of this report.

Grain yields are reported as bushels per acre at 13.5% moisture for wheat, 13% moisture for triticale and rye, 12.5% moisture for oats, and 12% moisture for barley. Additional agronomic data, such as plant height, lodging, and disease incidence, are listed along with the corresponding yield data. Footnotes include information concerning fertilization and cultural practices used in the tests. Since the average yield from several years indicates a variety's potential better than a single year's data, multiple year yield summaries are included.

In order to have a broad base of information, a number of varieties, including experimental lines, are included in the tests, but this does not imply that all are recommended for Georgia. Varieties best suited to a specific area or for a particular purpose and agreed upon by College of Agricultural and Environmental Sciences scientists are presented on pages 4 and 5 and also in the 2017 Fall Planting Schedule for Georgia (available at your county Extension office). For additional information, contact your local county Extension office, the nearest UGA campus, or the nearest UGA Research and Education Center.

The least significant difference (LSD) at the 10% level has been included in the tables to aid in comparing varieties and tests. If the yields' difference of any two varieties exceeds the LSD value, they can be considered different in yield ability. **Bolding** is used in the performance tables to indicate entries with yields statistically equal to the highest yielding entry in the test. The standard error (Std. Err.) of an entry mean is included at the bottom of each table to provide a general indicator of the level of precision of each variety experiment. The lower the value for the standard error of the entry mean, the more precise the experiment.

This report is one of five publications presenting the performance of agronomic crops in Georgia. For information concerning other crops, refer to one of the following research reports: 2016 Corn Performance Tests (Annual Publication 101-8); 2016 Soybean, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests (Annual Publication 103-8); 2016 Peanut, Cotton, and Tobacco Performance Tests (Annual Publication 104-8); and 2013-2014 Canola Performance Tests (available at http://www.swvt.uga.edu/canola.html).

This report, along with performance test information on other crops, is also available online at **www.swvt.uga.edu**. Additional information may be obtained by writing to Dr. Daniel J. Mailhot, Department of Crop and Soil Sciences, Griffin Campus, 1109 Experiment Street, Griffin, GA 30223-1797.

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# 2016-2017 SMALL GRAIN PERFORMANCE TESTS

***Edited by Daniel J. Mailhot, Dustin G. Dunn, Henry Jordan Jr., John D. Gassett, and J. LaDon Day***

## The Season

Georgia producers in much of the state faced extreme or exceptional drought conditions during the fall of 2016. The north and west portions of the state were most strongly affected, and this lasted from October through December. The remainder of the season had more normal rainfall, but winter temperatures were unusually warm.

**2016-2017 Rainfall[1]**

| Month | Year | Calhoun[2] | Athens[3] | Midville | Plains | Tifton | Marianna, FL[4] |
|---|---|---|---|---|---|---|---|
| | | ---------- inches ---------- | | | | | |
| October | 2016 | 0.00 | 0.04 | 2.50 | 0.00 | 0.06 | 0.22 |
| November | 2016 | 2.12 | 2.16 | 0.42 | 0.95 | 4.68 | 0.80 |
| December | 2016 | 3.47 | 3.12 | 5.38 | 5.82 | 9.21 | 12.33 |
| January | 2017 | 8.58 | 6.46 | 7.28 | 10.23 | 7.00 | 7.28 |
| February | 2017 | 3.73 | 2.05 | 1.68 | 2.97 | 1.56 | 3.78 |
| March | 2017 | 4.58 | 2.45 | 1.37 | 1.44 | 1.49 | 2.11 |
| April | 2017 | 6.29 | 5.97 | 4.21 | 4.68 | 3.80 | 2.12 |
| May | 2017 | 5.96 | 5.34 | 4.35 | 6.29 | 2.65 | 4.28 |
| June 1-14 | 2017 | 2.49 | 1.26 | 2.73 | 3.24 | 2.36 | 5.63 |
| **Total (9 months)** | | **37.22** | **28.85** | **29.92** | **35.59** | **32.81** | **38.55** |
| **Normal (9 months)** | | **39.42** | **34.60** | **29.69** | **37.39** | **29.93** | **34.74** |

1. Data for Georgia sites collected by Dr. Ian Flitcroft, UGA-Griffin, Griffin, Ga.
2. Floyd County location.
3. Iron Horse Plant Sciences Farm, Watkinsville, Ga.
4. University of Florida North Florida Research and Education Center location.

The shortage of cool temperatures prevented some varieties from vernalizing sufficiently. This led to reduced heading and lower yields. Other varieties vernalized adequately, but were damaged by the severe late spring freeze that affected the state. Cold damaged plants showed delayed (and reduced) heading, and heads that emerged prior to the cold showed bleaching and a lack of grain fill. The timing and severity of the freeze were unusual, and it has been suggested that the last time the wheat crop encountered this situation was in the spring of 1984.

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**Hours under 45° F, Nov. 15, 2016-Apr. 1, 2017**

| Year | Calhoun[1] | Athens[2] | Midville | Plains | Tifton |
|---|---|---|---|---|---|
| 2013 | 1605 | 1431 | 980 | 895 | 679 |
| 2014 | 1863 | 1687 | 1194 | 1203 | 962 |
| 2015 | 1722 | 1597 | 1187 | 1154 | 921 |
| 2016 | 1310 | 1025 | 791 | 764 | 637 |
| 2017 | 1162 | 972 | 722 | 591 | 463 |

1. Floyd County location.
2. Watkinsville, Ga.

During 2017, oat planted and harvested acreages increased somewhat from 2016. Rye planted acreage increased by 25%, however, it is primarily used as a forage and cover crop. Wheat acreage declined by 11% (planted) and 18% (harvested) to a 5-year low.

**Small Grains Acres (thousands) by Harvest Year[1]**

| | | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|---|---|---|---|---|---|
| Oat | Planted[2] | 50 | 60 | 65 | 45 | 50 |
| | Harvested[3] | 18 | 20 | 25 | 15 | 20 |
| Rye | Planted[2] | 190 | 170 | 210 | 200 | 250 |
| | Harvested[3] | 40 | 20 | 30 | 30 | 35 |
| Wheat | Planted[2] | 430 | 300 | 215 | 180 | 160 |
| | Harvested[3] | 360 | 230 | 145 | 110 | 90 |

1. Data obtained from the National Agricultural Statistics Service.
2. Includes plantings for forage, silage, and cover crop uses.
3. Harvested for grain.

# SMALL GRAIN CULTURAL PRACTICES

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## Fertilization

Soil samples should be taken from all fields used for planting in small grains, whether for grain or grazing. Testing the soil before planting helps to determine the amount and type of fertilizer needed to produce a small grain crop. This practice may prevent excessive expenditures where the soil fertility level is very high, and it ensures that the nutritional needs of the crop are met.

Lime should be applied to maintain the soil pH at a target pH of 6.0. If the small grains are to be grazed or if magnesium (Mg) levels are low, dolomitic lime (high Mg) should be used. Adequate amounts of lime should be applied to the previous crop to ensure that the soil pH is in the desired range prior to planting small grains. If soil tests indicate the need for lime, it should be applied as soon as possible in order to allow adequate time for the soil pH change to occur. Allow two to three months or more, depending on the fineness of grind.

The table below shows the recommended rates of fertilizer N-$P_20_5$-$K_20$ to apply to small grains, based on soil test levels:

**Soil Test Rating for Potassium ($K_2O$)**

| | Low | Medium | High | Very High |
|---|---|---|---|---|
| Low | *-80-80 | *-80-40 | *-80-0 | *-80-0 |
| Medium | *-40-80 | *-40-40 | *-40-0 | *-40-0 |
| High | *-0-80 | *-0-40 | *-0-0 | *-0-0 |
| Very High | *-0-80 | *-0-40 | *-0-0 | *-0-0 |

*For a small grain following a legume, apply 60-80 lb N/acre; for a small grain following cotton, corn, etc., apply 80-100 lb N/acre; for a small grain following grain sorghum, apply 100-120 lb N/acre. Apply 20-40 lb of recommended N/acre in the fall and the remainder in February. For grazing, increase the total N fertilizer rate by 60 lb N/acre and apply in two applications—one-half in the fall and the remainder in mid-winter.

## Planting

Small grain seed should be planted in a well-prepared, firm, moist seedbed. Moldboard plowing or chisel plowing is recommended over disc harrowing. The seed should be planted 1 to 1.5 inches deep. The proper planting date for small grains is important for both grain and forage production. Some factors to consider in determining the date for planting small grains include variety, geographic location, weather patterns, soil moisture, and intended use of the crop. If irrigation is available, the planting date can be more flexible. The following table shows recommended planting dates in Georgia:

**Recommended Planting Dates**

| | Coastal Plain | | Piedmont | | Limestone Valley | |
|---|---|---|---|---|---|---|
| Crop | Grain | Grazing | Grain | Grazing | Grain | Grazing |
| Wheat | 11/07*- 12/01 | 10/15 | 10/25 - 11/15 | 10/01 | 10/10 - 11/01 | 9/15 |
| Oat | 11/07 - 12/01 | 10/01 | 10/07 - 10/30 | 9/15 | 9/25 - 10/15 | 9/01 |
| Barley | 11/07 - 12/01 | 10/15 | 10/25 - 11/15 | 10/01 | 10/01 - 11/01 | 9/01 |
| Triticale | 11/15 - 12/15 | - | - - | - | - - | - |
| Rye | 11/07 - 12/01 | 10/15 | 10/07 - 11/15 | 10/01 | 10/01 - 10/20 | 9/01 |

*November 7 in the Upper Coastal Plain and November 15 in the Lower Coastal Plain.

## Pest Control

Check with your county Extension agent for the latest information on weed, disease and insect control in small grains, or refer to the current edition of the *Georgia Pest Management Handbook*.

## Varieties

Select high-yielding, insect- and disease-resistant varieties for best results. Give careful consideration to the statistics (LSD) reported in the tables in this publication. An explanation of their proper use is given in the preface to this report. The variety listed at the top of the list may be only one of the best.

For late planting, the early-maturing varieties usually perform the best. Varieties recommended for the 2017 planting season are presented in the following tables.

**Recommended Grain Varieties for 2017**

| | | | |
|---|---|---|---|
| Barley | Atlantic (P) | Secretariat (S) | Thoroughbred (S) |
| Oat | Graham (S)[2] | Horizon 306 (S)[2] | SS 76-50 (S)[2] |
| | Horizon 270 (S)[2] | Horizon 720 (C)[2] | |
| Wheat | AGS 2024 (S) | Dyna-Gro 9171 (P)[3] | Pioneer 26R41 (P)[2] |
| | *AGS 2026 (S) | Dyna-Gro 9522 (P) | Pioneer 26R59 (P)[3] |
| | AGS 2027 (S) | Dyna-Gro Savoy (S) | Pioneer 26R94 (C) |
| | AGS 2033 (S) | Hilliard (P)[3] | SH 5550 (S) |
| | AGS 2035 (S) | *Jamestown (S)[2,3] | SS 8415 (P) |
| | AGS 2038 (S) | PGX 16-1 (P) | *USG 3024 (P) |
| | AGS 2055 (P) | PGX 16-4 (P) | |
| | AGS 3000 (C) | Pioneer 26R10 (P) | |
| Triticale | Monarch (S) | SS Triticale 1414 (P) | |
| | NF201 (S) | Trical 342 (S) | |

1. P = Piedmont; C = Coastal Plain; S = Statewide.
2. Consider using a labeled fungicide; highly susceptible to powdery mildew, leaf rust, stripe rust, or crown rust.
3. Susceptible to some Hessian fly; consider using an insecticide.

* To be dropped from list in 2018.

## Recommended Forage Varieties for 2017

| | | | |
|---|---|---|---|
| Oat | *Horizon 306 (S) | Legend 567 (C)^ | RAM LA99016 (S) |
| | Horizon 720 (S)^ | NF402 (S) | SS 76-50 (S) |
| Wheat | AGS 2024 (S) | Dyna-Gro Savoy (S) | SRW9410 (SS8629) (S) |
| | AGS 2033 (C) | GrazeAll (S) | *SS 8641 (S) |
| | AGS 2038 (S) | Pioneer 26R94 (C) | |
| Rye | Bates RS4 (S) | Florida 401 (C)[2] | Oklon (S) |
| | Elbon (C) | Maton (C) | Wrens Abruzzi (S) |
| | FL 104 (AGS 104) (S) | Maton II (S) | |
| Triticale | FL 01143 (C)[2,3] | Monarch (C,P) | SS 1414 (P,M) |
| | FL 08128 (C)[2,3] | NF 201 (S) | Trical 342 (S) |
| Ryegrass | Andes (C)[3] | Fria (M) | Nelson (S) |
| | Attain (S) | Grazer (P,M) | Passerel Plus (S) |
| | Big Boss (S) | Jackson (C) | Prine (S) |
| | Credence (S)[3] | Jumbo (S) | TAMTBO (S) |
| | Diamond T (C) | Lonestar (S) | Tetrastar (S) |
| | Earlyploid (S) | Marshall (S) | Winterhawk (P,M) |
| | Flying A (C) | Maximus (S) | |

1. M = Mountains; P = Piedmont; C = Coastal Plain; S = Statewide.
2. Suitable for early planting.
3. Seed may be limited in 2017-2018.

* To be dropped from list in 2018.

^ Resistant to crown rust.

To ensure good germination, the absence of noxious weeds, and varietal purity, **plant certified, treated seed**. General seeding rate recommendations based on bushels per acre are provided in Table 1. Seed size varies greatly from year to year and among varieties and seed lots. Therefore, more accurate plant populations may be achieved by using seeding rates based on seeds per area rather than on bushels per acre. For example, research on wheat has shown that seeding rates of 30-35 seeds per square foot are best for top yields. Accurate target populations are best achieved by adjusting grain drill settings based on the number of seed per foot of row. Grain drill calibrations can be accomplished quickly and accurately by counting seed collected from one or more rows during travel over a specified distance and calculating the drill output as seeds per foot of row. Table 2 is provided as a guide to establish target populations of the small grain crops for popular row spacings. The figures in Table 2 are broadly based on the average number of seeds per pound for the various crops but even more accurate calibrations can be accomplished if the actual number of seeds per pound is known for the seed lot being planted. At least one seed supplier in the Southeast now prints seed size information on the bag. If seed size is known, Table 3 may more accurately predict seed requirements.

**Table 1. Recommended seeding rates for 2016.**

| Crop | Weight | Grain | Grazing |
|---|---|---|---|
| | lb/bu | -------- bu/acre -------- | |
| Wheat | 60 | 1.75-2.5 | 2.0-2.5 |
| Oat | 32 | 2.0 | 4.0 |
| Barley | 48 | 2.0-2.5 | ----- |
| Rye | 56 | 1.0-1.5 | 2.0-2.5 |
| Triticale | 48 | 1.5-2.0 | 2.0-2.5 |

**Table 2. Example of seeding rates of different small grains.**

| | | | | Row Width (inches) | | | |
|---|---|---|---|---|---|---|---|
| Crop | Seeding Rate | | | 6 | 7 | 8 | 10 |
| | seeds/sq.ft. | lb/A[1] | bu/A[1] | -------- seed per foot of row -------- | | | |
| Barley | 19 | 72 | 1.5 | 10 | 11 | 13 | 16 |
| | 25 | 96 | 2.0 | 13 | 15 | 17 | 21 |
| | 32 | 120 | 2.5 | 16 | 19 | 21 | 27 |
| Oat | 19 | 64 | 2.0 | 10 | 11 | 13 | 16 |
| | 24 | 80 | 2.5 | 12 | 14 | 16 | 20 |
| | 28 | 96 | 3.0 | 14 | 16 | 19 | 23 |
| | 38 | 128 | 4.0 | 19 | 22 | 25 | 32 |
| Wheat | 27 | 90 | 1.5 | 14 | 16 | 18 | 23 |
| | 37 | 120 | 2.0 | 18 | 22 | 25 | 31 |
| | 47 | 150 | 2.5 | 24 | 27 | 31 | 39 |
| | 55 | 180 | 3.0 | 28 | 32 | 37 | 46 |
| Rye | 31 | 56 | 1.0 | 16 | 18 | 21 | 26 |
| | 46 | 84 | 1.5 | 23 | 27 | 31 | 38 |
| | 62 | 112 | 2.0 | 31 | 36 | 41 | 52 |

1. Estimates based on average seeds per pound of 11,500 for barley, 12,875 for oat, 13,250 for wheat, and 24,000 for rye.

Data compiled by J. L. Day, UGA-Griffin, Griffin, Georgia.

**Table 3. Seeding rates for wheat based on seed size[1].**

| | Desired Population (seeds per square foot) | | | | | | |
|---|---|---|---|---|---|---|---|
| | 30 | 32 | 34 | 35 | 36 | 38 | 40 |
| Seed Size | Seeding Rate | | | | | | |
| seeds/lb | ---------- lb/A ---------- | | | | | | |
| 10,000 | 145 | 155 | 165 | 169 | 174 | 184 | 194 |
| 11,000 | 132 | 141 | 150 | 154 | 158 | 167 | 176 |
| 12,000 | 121 | 129 | 137 | 141 | 145 | 153 | 161 |
| 13,000 | 112 | 119 | 127 | 130 | 134 | 141 | 149 |
| 14,000 | 104 | 111 | 118 | 121 | 124 | 131 | 138 |
| 15,000 | 97 | 103 | 110 | 113 | 116 | 123 | 129 |
| 16,000 | 91 | 97 | 103 | 106 | 109 | 115 | 121 |
| 17,000 | 85 | 91 | 97 | 100 | 102 | 108 | 114 |
| 18,000 | 81 | 86 | 91 | 94 | 97 | 102 | 108 |

1. Seeding rate assumes 90% germination.

# CHARACTERISTICS OF VARIETIES, 2017

## Wheat

| | Resistance | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brand-Variety | Leaf Rust | Stripe Rust | Glume Blotch | Powdery Mildew | BYD[1] | SBWM[2] | Head Scab | Hessian Fly | Test Wt | Maturity | Straw Strength | Vernal. Requir. | Awned |
| AGS 2024 | good | good | fair | good | fair | good | fair | fair | good | medium | good | medium | yes |
| AGS 2026 | good | good | good | good | fair | good | poor | good* | good | medium | fair | short | no |
| AGS 2027 | good | good | good | good | fair | good | fair | good* | good | medium | fair | medium | no |
| AGS 2033 | good | good | good | good | fair | good | fair | good | good | medium | good | medium | yes |
| AGS 2035 | good | good | fair | fair | fair | good | fair | good | good | medium | good | short | yes |
| AGS 2038 | good | good | fair | good | fair | good | fair | fair | good | med. late | good | medium | Yes |
| AGS 2055 | good | good | - | good | - | - | - | fair | good | med. late | good | - | - |
| AGS 3000 | poor | good | - | good | - | - | - | fair | good | early | good | - | - |
| Dyna-Gro 9171 | fair | good | good | fair | fair | good | good | poor | fair | late | good | long | yes |
| Dyna-Gro 9522 | poor | good | - | good | - | - | - | poor | fair | med. late | good | | yes |
| Dyna-Gro Savoy | good | good | good | good | fair | good | fair | good* | good | early | good | short | no |
| GrazeAll | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hilliard | good | good | - | good | - | - | - | poor | good | medium | good | - | yes |
| Jamestown | good | good | fair | good | fair | good | good | poor | good | medium | good | short | yes |
| LA754 | good | good | fair | poor | fair | poor | fair | good | good | early | good | short | yes |
| PGX 16-1 | fair | good | - | good | - | - | - | poor | good | medium | good | - | - |
| PGX 16-4 | good | good | - | good | - | - | - | poor | good | medium | good | - | -- |
| Pioneer 26R10 | fair | good | good | fair | fair | good | fair | good | good | late | good | long | yes |
| Pioneer 26R41 | fair | good | fair | good | good | fair | good | good* | good | late | good | long | yes |
| Pioneer 26R59 | fair | good | - | good | - | - | - | poor | fair | medium | good | | no |
| Pioneer 26R94 | good | good | fair | good | fair | good | fair | good | good | medium | good | short | yes |
| SH 5550 | good | good | good | good | fair | good | fair | fair | good | medium | good | medium | no |
| SRW 9410 | fair | good | fair | fair | fair | good | good | good* | good | medium | fair | medium | yes |
| SS 8415 | fair | good | - | good | fair | good | good | good* | good | late | good | long | no |
| USG 3024 | good | good | good | good | fair | good | poor | fair | good | medium | good | medium | yes |
| **Triticale** | | | | | | | | | | | | | |
| FL 01143 | - | - | - | - | - | - | - | poor | fair | very early | good | short | - |
| FL 08128 | - | - | - | - | - | - | - | good | good | very early | good | short | - |
| NF 201 | - | - | - | - | - | - | - | poor | fair | - | good | - | yes |
| Monarch | good | - | - | good | good | - | - | fair | fair | early | good | short | yes |
| SS Triticale 1414 | good | - | - | good | good | - | - | good | fair | early | good | short | yes |
| Trical 342 | good | - | - | good | good | - | - | poor | fair | early | good | short | yes |

1. Barley yellow dwarf virus.
2. Soilborne wheat mosaic virus.
* Resistant to Bio-Type L.

## Oat

| | Resistance | | | | | |
|---|---|---|---|---|---|---|
| Brand-Variety | Crown Rust | BYD[1] | Cold Hardiness | Maturity | Test Weight | Straw Strength |
| Gerard 224 | poor | fair | good | medium | good | fair |
| Gerard 229 | poor | fair | good | medium | good | fair |
| Graham | good | - | - | medium | good | fair |
| Horizon 270 | poor | fair | good | medium | good | good |
| Horizon 306 | poor | fair | good | medium | good | good |
| Horizon 720 | good | fair | good | early | good | good |
| Legend 567 | good | - | - | - | - | - |
| SS 76-50 | poor | fair | good | medium | good | good |

1. Barley yellow dwarf virus.

## Barley

| | Resistance | | | | | | |
|---|---|---|---|---|---|---|---|
| Brand-Variety | Glume Blotch | Spot Blotch | Scald | Hessian Fly | Maturity | Test Weight | Head Type |
| Atlantic | good | good | good | fair | medium | good | awned |
| Price | fair | good | good | fair | medium | fair | awned |
| Secretariat | good | good | good | fair | medium | good | awned |
| Thoroughbred | good | good | good | fair | late | good | awned |

# SMALL GRAIN UPDATES

## DISEASES

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Georgia wheat acreage for grain production declined again this year. The fall was exceptionally dry, and wheat planted at research locations had to be irrigated to get a stand. Plantings in the state received adequate rainfall from late November into early March, but spring rainfall was low. Georgia also saw some historically warm winter temperatures and many varieties had poor vernalization. A late winter freeze severely damaged many of the earlier varieties across all locations.

Barley Yellow Dwarf virus (BYDV) was observed at low levels across the state.

Fusarium Head Blight (FHB/Scab) (*Fusarium graminearum*) incidences were low across the state. After several years of FHB being observed at high levels, the dry spring prevented infections from starting. The late freeze damaged early headed varieties and prevented early infections. This should be considered a temporary reprieve, as high corn acreage is going to ensure that a ready supply of inoculum is available when climatic conditions are more favorable for the disease. Please refer to UGA Extension Publication (C 1066), “Identification and Control of Fusarium Head Blight (Scab) of Wheat in Georgia”, for additional information on dealing with FHB.

Powdery mildew (*Blumeria graminis)* was observed in the state at low levels and may be a result of lower wheat acreage along with a very dry winter and spring which is not conducive to powdery mildew epidemics.

Leaf rust (*Puccinia triticina*) was observed at all research locations in the state. Disease levels were low. Mild winter and spring temperatures as well as intermittent humidity did not provide conducive conditions for rust epidemics.

Stripe rust (*Puccinia striiformis)* was observed at Plains where plots were artificially inoculated. Stripe rust was observed in Tifton, Athens, and Midville at low levels.

Oat crown rust (*Puccinia coronate)* was observed at Plains in the oat variety trial.

Stagonospora spot blotch and tan spot were observed throughout the state at low levels in wheat. Tan spot was also reported on rye in the state.

# INSECTS

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The variety tests were sampled for Hessian fly, *Mayetiola destructor*, in late April, 2017 at Southwest Branch Research and Education Center near Plains, the Bledsoe Research farm near Griffin, and the Lang/Rigdon farm near Tifton, GA. Results are from a sample of 20 stems per entry at each location and are shown in the next table.

Hessian fly infestations were moderate to large at both locations. Several wheat varieties showed good levels of Hessian fly resistance. Varieties with good resistance in southern Georgia may not be resistant in northern Georgia because of the presence of biotype L in northern Georgia. Rye and oats also are good Hessian-fly resistant alternatives to wheat for forage production, because rye is highly resistant, and oats are immune to the insect.

Dry conditions in the fall of 2016-2017 delayed planting of wheat in some areas. However, very mild conditions during the winter caused Hessian fly infestations to reach damaging levels by the time of the spring generation in susceptible varieties in some areas. Aphids caused direct injury to wheat and also transmitted barley yellow dwarf virus (BYDV). Aphid infestations also generally were variable and sometimes significant throughout the state. BYD infection also was variable but moderate to high in most of Georgia. Systemic insecticide seed treatments and properly timed foliar applications of insecticides can reduce aphid numbers and minimize BYD incidence. Cereal leaf beetle infestations also caused leaf defoliation in some fields, mostly in central and eastern Georgia. Consult your local county Extension agent and the commercial edition of the *2017 Georgia Pest Management Handbook* for a list of recommended insecticides and for management practices for these and other insect pests of small grains.

# Hessian Fly Infestation in Wheat Entries in the Georgia Small Grain Performance Tests at Plains, Griffin, and Tifton, Georgia, 2016-2017

| Variety | Rating[2] | Plains | | Griffin | | Tifton[1] | |
|---|---|---|---|---|---|---|---|
| | | % Infested Stems | Immatures per stem | % Infested Stems | Immatures per stem | % Infested Stems | Immatures per stem |
| **Triticale** | | | | | | | |
| FL 01143 | S | 15 | 0.20 | 0 | 0.00 | X | X |
| FL 08128 | R | 5 | 0.25 | 0 | 0.00 | X | X |
| NF201 | S | 25 | 1.25 | 5 | 0.50 | X | X |
| NS202567 | R | 0 | 0.00 | 0 | 0.00 | X | X |
| SS 1414 Triticale | R | 0 | 0.00 | 0 | 0.00 | X | X |
| Trical 342 | S | 10 | 0.20 | 0 | 0.00 | X | X |
| **Wheat** | | | | | | | |
| AGS 2024 | MR | 5 | 0.15 | 35 | 0.75 | 5 | 0.25 |
| AGS 2027 | R | 0 | 0.00 | 5 | 0.10 | 5 | 0.20 |
| AGS 2033 | MR | 20 | 0.30 | 0 | 0.00 | 10 | 0.10 |
| AGS 2035 | MR | 10 | 0.50 | 10 | 0.10 | 40 | 0.65 |
| AGS 2038 | MS | 15 | 0.40 | 0 | 0.00 | 60 | 4.05 |
| AGS 2040 | S | 65 | 1.85 | 15 | 0.20 | X | X |
| AGS 2055 | MS | 45 | 1.35 | 5 | 0.10 | X | X |
| AGS 3000 | MS/MR | 10 | 0.15 | 10 | 0.10 | 20 | 0.50 |
| AGS 3201 | S | 30 | 0.65 | 65 | 2.05 | 75 | 5.35 |
| Dyna-Gro 9171 | S | 55 | 1.70 | 15 | 0.35 | X | X |
| Dyna-Gro 9522 | S | 55 | 0.70 | 45 | 1.70 | X | X |
| Dyna-Gro 9701 | R | 5 | 0.05 | 5 | 0.10 | X | X |
| Dyna-Gro 9750 | S | 35 | 0.50 | 35 | 0.75 | 75 | 7.50 |
| Dyna-Gro Savoy | R | 5 | 0.10 | 0 | 0.00 | 15 | 0.55 |
| Dyna-Gro WX16722 | R | 5 | 0.05 | 0 | 0.00 | X | X |
| GA 051207-14E53 | MS | 25 | 0.40 | 0 | 0.00 | 60 | 1.35 |
| GA 05450-15EL52 | S | 40 | 0.65 | 5 | 0.25 | 85 | 1.85 |
| GA 061471-15LE38 | MS | 10 | 0.10 | 5 | 0.05 | 45 | 1.20 |
| GA 06474-15EL56 | S | 5 | 0.10 | 0 | 0.00 | 80 | 4.15 |
| GA 071012-14E6 | MR | 5 | 0.10 | 30 | 0.70 | 0 | 0.00 |
| GA 071107-16E2 | MR | 0 | 0.00 | 20 | 0.35 | 0 | 0.00 |
| GA 071171-15EL64ES8 | MS | 10 | 0.10 | 20 | 0.35 | 45 | 2.35 |
| GA 071518-16E39 | R | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| GA 07192-14E9 | MS | 0 | 0.00 | 10 | 0.70 | 30 | 0.20 |
| GA 07353-14E19 | MR | 15 | 0.15 | 5 | 0.05 | 20 | 0.70 |
| GA 08070-16E21 | MS | 10 | 0.75 | 15 | 0.15 | 45 | 1.00 |
| GA 081113-15EL8 | R | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| GA 081298-16LE1 | S | 10 | 0.10 | 5 | 0.05 | 70 | 1.95 |
| GA 081446-15EL47 | MR | 0 | 0.00 | 0 | 0.00 | 55 | 2.60 |
| GA 08249-16E3 | R | 10 | 0.10 | 5 | 0.15 | 10 | 0.15 |

# Hessian Fly Infestation in Wheat Entries in the Georgia Small Grain Performance Tests at Plains, Griffin, and Tifton, Georgia, 2016-2017 (Continued)

| Variety | Rating[2] | Plains | | Griffin | | Tifton[1] | |
|---|---|---|---|---|---|---|---|
| | | % Infested Stems | Immatures per stem | % Infested Stems | Immatures per stem | % Infested Stems | Immatures per stem |
| GA 08261-15EL7 | S | 20 | 0.20 | 10 | 0.15 | 70 | 1.65 |
| GA 08510-15EL9 | MR | 5 | 0.05 | 0 | 0.00 | 40 | 1.50 |
| GA 08535-15LE29 | R | 5 | 0.25 | 0 | 0.00 | 20 | 0.30 |
| GA 091291-16LE28 | S | 30 | 0.55 | 35 | 1.75 | 75 | 4.14 |
| GA 09129-16E55 | S | 40 | 1.90 | 10 | 0.35 | 35 | 0.75 |
| GA 09241-16E23 | MR | 15 | 0.20 | 5 | 0.10 | 15 | 2.50 |
| GA 09241-16E24 | MR | 20 | 0.25 | 0 | 0.00 | 5 | 0.05 |
| GA 09377-16LE18 | R | 5 | 0.05 | 5 | 0.05 | 10 | 0.15 |
| GA 094364-16LE12 | MR | 0 | 0.00 | 25 | 0.30 | 10 | 0.15 |
| GA 09656-16LE21 | R | 0 | 0.00 | 15 | 0.60 | 10 | 0.25 |
| GA 09656-16LE28 | MS | 0 | 0.00 | 15 | 0.35 | 25 | 0.40 |
| GA 12390-16E45 | MR | 5 | 0.05 | 0 | 0.00 | 30 | 0.25 |
| GA Gore | S | 60 | 3.00 | 5 | 0.50 | 0 | 0.00 |
| GA06283-15LE25 | S | 25 | 0.55 | 5 | 0.05 | 60 | 3.95 |
| GAJT 141-14E45 | R | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Hilliard | S | 0 | 0.00 | 60 | 1.65 | 75 | 4.90 |
| LA01110D-150-241 | S | 5 | 0.10 | 5 | 0.05 | 65 | 2.45 |
| LA01110D-150-625 | MR | 0 | 0.00 | 20 | 0.45 | 20 | 0.35 |
| LA03200E-2 | R | 0 | 0.00 | 5 | 0.05 | 0 | 0.00 |
| LA09225C-33 | R | 10 | 0.10 | 20 | 0.35 | 10 | 0.40 |
| LA09264C-P5 | MR | 15 | 0.25 | 25 | 0.30 | 25 | 0.30 |
| NC09-20986 | R | 5 | 0.05 | 5 | 0.05 | 30 | 0.50 |
| NC13-21213 | S | 5 | 0.10 | 10 | 0.10 | 60 | 2.65 |
| P243 | S | 50 | 1.20 | 25 | 0.35 | 70 | 2.90 |
| P357 | S | 100 | 2.40 | 50 | 1.00 | 85 | 8.10 |
| PGX14-5 | S | 25 | 0.40 | 55 | 2.30 | 25 | 1.80 |
| PGX16-1 | S | 5 | 0.05 | 50 | 0.70 | 30 | 1.45 |
| PGX16-3 | S | 5 | 0.25 | 0 | 0.00 | 80 | 1.85 |
| PGX16-4 | S | 5 | 0.05 | 30 | 0.55 | 75 | 2.70 |
| #BOSS | S | 45 | 0.95 | 65 | 2.80 | 90 | 6.55 |
| #BULLET | S | 5 | 0.05 | 0 | 0.00 | 40 | 1.10 |
| #TURBO | S | 5 | 0.05 | 5 | 0.05 | 60 | 4.25 |
| #WARRIOR | R | 0 | 0.00 | 0 | 0.00 | 15 | 0.20 |
| Pioneer 26R10 | R | 0 | 0.00 | 10 | 0.20 | 0 | 0.00 |
| Pioneer 26R41 | R | 0 | 0.00 | 0 | 0.00 | 10 | 0.05 |

# Hessian Fly Infestation in Wheat Entries in the Georgia Small Grain Performance Tests at Plains, Griffin, and Tifton, Georgia, 2016-2017 (Continued)

| Variety | Rating[2] | Plains | | Griffin | | Tifton[1] | |
|---|---|---|---|---|---|---|---|
| | | % Infested Stems | Immatures per stem | % Infested Stems | Immatures per stem | % Infested Stems | Immatures per stem |
| Pioneer 26R59 | S | 30 | 0.80 | 15 | 0.30 | 90 | 5.95 |
| Pioneer 26R94 | MR | 15 | 0.25 | 10 | 0.25 | 30 | 1.05 |
| Pioneer XW15C | R | 0 | 0.00 | 0 | 0.00 | 25 | 0.25 |
| SCLA 9049 D-E1-J1 | S | 5 | 0.15 | 30 | 0.35 | 95 | 6.20 |
| SH 5550 | S | 0 | 0.00 | 0 | 0.00 | 5 | 0.15 |
| SH 7200 | MS | 15 | 0.15 | 0 | 0.00 | 30 | 1.15 |
| SRW 9410 | R | 0 | 0.00 | 0 | 0.00 | 35 | 2.15 |
| SS 8415 | R | 5 | 0.15 | 0 | 0.00 | 25 | 0.55 |
| Syngenta Cypress | S | 35 | 0.80 | 25 | 0.75 | 65 | 2.60 |
| Syngenta SX 1790 | S | 0 | 0.00 | 40 | 0.60 | X | X |
| Syngenta Viper | S | 90 | 2.95 | 35 | 0.80 | X | X |
| TAMU TX-EL2 | S | 40 | 1.05 | 10 | 0.30 | 70 | 4.10 |
| USG 3228 | S | 55 | 1.20 | 60 | 1.55 | 45 | 1.50 |
| USG 3448 | MS | 25 | 0.80 | 5 | 0.05 | 25 | 0.75 |
| USG 3458 | R | 5 | 0.10 | 0 | 0.00 | 10 | 0.10 |
| USG 3536 | R | 0 | 0.00 | 5 | 0.05 | 10 | 0.15 |
| USG 3689 | S | 10 | 0.10 | 5 | 0.05 | 60 | 5.15 |
| VA11W-108PA | S | 20 | 0.30 | 60 | 1.25 | 80 | 5.10 |
| VA11W-279 | MS | 10 | 0.10 | 15 | 0.15 | 20 | 0.55 |
| VA12W-68 | R | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| VA12W-72 | MR | 20 | 0.25 | 0 | 0.00 | 10 | 0.80 |
| W010025R1 | MS | 15 | 0.15 | 10 | 0.10 | 60 | 1.40 |
| W010025T1 | MR | 15 | 0.20 | 10 | 0.60 | 20 | 0.20 |
| W010025Y1 | S | 0 | 0.00 | 30 | 0.45 | 20 | 0.80 |

2017 Results at Plains, Griffin, and Tifton were from one sample of 20 stems.

1. X = not included in Tifton trial.
2. Ratings: R = resistant, MR = moderately resistant, MS = moderately susceptible, and S = susceptible.

# Grain Tests Results

## Wheat

### Tifton, Georgia:
### Wheat Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| LA01110D-150-241 | **109.8** | . | . | 56.5 | 35 | 4 | 03/30 |
| GAJT 141-14E45 | **106.4** | **101.1** | **80.6** | 55.9 | 33 | 6 | 03/24 |
| GA 081298-16LE1 | **106.3** | . | . | 57.9 | 36 | 5 | 03/23 |
| GA 06474-15EL56 | **106.1** | **102.2** | . | 56.4 | 35 | 9 | 03/25 |
| GA 09129-16E55 | **106.0** | . | . | 58.7 | 35 | 10 | 03/23 |
| GA 081113-15EL8 | **103.8** | **100.0** | . | 56.5 | 34 | 5 | 04/01 |
| AGS 2033 | **102.9** | **101.0** | **83.9** | 58.0 | 33 | 4 | 03/29 |
| GA 09436-16LE12 | 99.9 | . | . | 60.6 | 35 | 2 | 03/23 |
| SH 5550 | 99.5 | **98.3** | **81.2** | 57.2 | 34 | 2 | 03/23 |
| LA01110D-150-625 | 99.1 | . | . | 58.1 | 35 | 6 | 03/26 |
| GA 06283-15LE25 | 97.1 | 95.2 | . | 57.2 | 32 | 15 | 03/27 |
| VA12W-72 | 96.5 | **98.6** | . | 55.5 | 32 | 4 | 03/30 |
| LA03200E-2 | 95.6 | . | . | 58.2 | 33 | 3 | 03/24 |
| GA 091291-16LE28 | 95.5 | . | . | 57.4 | 38 | 3 | 03/23 |
| GA 08261-15EL7 | 94.8 | 90.9 | . | 59.8 | 36 | 10 | 03/27 |
| AGS 2027 | 94.6 | . | . | 55.7 | 32 | 9 | 04/01 |
| PGX16-1 | 94.2 | **96.2** | **80.9** | 57.5 | 33 | 5 | 04/03 |
| SH 7200 | 93.5 | . | . | 57.8 | 34 | 11 | 03/29 |
| LA09225C-33 | 92.0 | . | . | 57.9 | 36 | 6 | 03/22 |
| AGS 2024 | 91.6 | **98.9** | **81.1** | 58.1 | 35 | 4 | 03/23 |
| VA11W-279 | 91.6 | . | . | 54.8 | 32 | 6 | 04/01 |
| PGX16-4 | 91.1 | 93.1 | 75.0 | 57.5 | 34 | 13 | 04/05 |
| GA08535-15LE29 | 90.1 | **100.9** | . | 58.5 | 36 | 4 | 03/24 |
| GA 051207-14E53 | 89.8 | 89.4 | 73.2 | 55.1 | 34 | 5 | 03/29 |
| #TURBO | 88.3 | 89.2 | . | 54.7 | 35 | 2 | 04/04 |
| GA 07192-14E9 | 87.0 | 92.3 | 75.8 | 56.3 | 36 | 3 | 03/15 |
| GA 061471-15LE38 | 86.1 | 88.5 | . | 56.0 | 37 | 13 | 03/24 |
| GA 071171-15EL64ES8 | 85.9 | 91.1 | . | 59.6 | 38 | 9 | 03/23 |
| VA12W-68 | 85.8 | . | . | 55.4 | 31 | 4 | 03/28 |
| AGS 2038 | 85.5 | 88.0 | 66.6 | 57.8 | 39 | 6 | 03/24 |
| GA 081446-15EL47 | 83.8 | 92.4 | . | 58.7 | 38 | 6 | 03/15 |
| Pioneer 26R94 | 82.4 | 89.6 | 71.9 | 58.9 | 38 | 6 | 03/18 |
| VA11W-108PA | 81.6 | . | . | 55.2 | 33 | 9 | 04/04 |
| GA 09377-16LE18 | 80.8 | . | . | 58.4 | 38 | 4 | 03/18 |
| TX-EL2 | 80.8 | . | . | 56.9 | 35 | 13 | 03/20 |
| LA09264C-P5 | 80.5 | . | . | 58.0 | 31 | 10 | 03/24 |
| GA 071518-16E39 | 79.9 | . | . | 58.8 | 36 | 3 | 03/18 |
| SCLA 99049D-E1-J1 | 77.4 | . | . | 57.7 | 35 | 10 | 03/24 |
| W010025T1 | 77.2 | . | . | 58.3 | 39 | 13 | 03/23 |
| Dyna-Gro Savoy | 76.7 | 90.8 | 76.9 | 58.1 | 35 | 6 | 03/13 |

# Tifton, Georgia:
# Wheat Grain Performance, 2016-2017
# (Continued)

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| Pioneer 26R41 | 76.1 | 73.1 | 59.3 | 54.3 | 32 | 4 | 04/10 |
| Hilliard | 76.0 | 86.9 | 70.9 | 55.2 | 33 | 14 | 04/07 |
| #BULLET | 74.3 | . | . | 53.4 | 35 | 10 | 04/12 |
| NC13-21213 | 74.1 | . | . | 56.1 | 35 | 10 | 04/09 |
| AGS 2035 | 73.7 | . | . | 58.3 | 38 | 9 | 03/22 |
| GA 05450-15EL52 | 73.4 | 80.5 | . | 55.1 | 31 | 19 | 03/28 |
| W010025R1 | 72.9 | . | . | 57.2 | 38 | 11 | 03/21 |
| GA 09656-16LE19 | 72.8 | . | . | 58.1 | 37 | 4 | 03/14 |
| UGA 12390-16E45 | 72.6 | . | . | 59.2 | 38 | 8 | 03/13 |
| GA 09656-16LE21 | 72.1 | . | . | 58.8 | 37 | 3 | 03/13 |
| GA 08070-16E21 | 71.6 | . | . | 57.3 | 38 | 4 | 03/13 |
| GA 08249-16E3 | 70.4 | . | . | 58.6 | 37 | 3 | 03/16 |
| USG 3536 | 69.9 | 75.8 | . | 53.2 | 34 | 15 | 04/13 |
| GA 09241-16E23 | 69.9 | . | . | 59.0 | 39 | 4 | 03/13 |
| GA 09241-16E24 | 68.0 | . | . | 58.9 | 39 | 4 | 03/10 |
| W010025Y1 | 66.7 | . | . | 58.0 | 37 | 11 | 03/17 |
| GA 08510-15EL9 | 66.2 | 81.7 | . | 57.5 | 37 | 3 | 03/14 |
| SRW 9410 | 65.4 | 73.7 | 64.4 | 53.8 | 31 | 25 | 04/07 |
| GA 071012-14E6 | 64.2 | 78.9 | 66.4 | 57.1 | 35 | 3 | 03/16 |
| GA 07353-14E19 | 64.1 | 85.0 | 70.7 | 57.6 | 36 | 4 | 03/22 |
| NC09-20986 | 62.0 | 70.6 | 57.2 | 55.4 | 38 | 13 | 04/07 |
| GA 071107-16E2 | 61.0 | . | . | 57.8 | 37 | 2 | 03/14 |
| SY Cypress | 59.8 | 74.7 | 63.6 | 56.7 | 35 | 10 | 03/16 |
| USG 3689 | 58.8 | . | . | 54.8 | 35 | 36 | 04/06 |
| PGX 14-5 | 58.6 | . | . | 55.7 | 36 | 14 | 04/07 |
| GA-Gore | 52.4 | . | . | 52.3 | 34 | 44 | 03/18 |
| SS 8415 | 50.2 | 62.6 | 53.0 | 49.8 | 36 | 54 | 04/08 |
| #WARRIOR | 45.7 | 55.5 | . | 49.6 | 29 | 20 | 04/07 |
| USG 3448 | 43.9 | . | . | 51.4 | 30 | 18 | 04/12 |
| USG 3458 | 43.5 | . | . | 50.2 | 31 | 18 | 04/10 |
| Pioneer XW15C | 43.1 | . | . | 51.1 | 32 | 58 | 04/09 |
| Pioneer 26R59 | 37.7 | 52.3 | 41.9 | 47.4 | 28 | 28 | 04/12 |
| Pioneer 26R10 | 34.6 | 45.9 | 36.0 | 47.9 | 32 | 13 | 04/14 |
| Dyna-Gro 9750 | 32.8 | . | . | 48.5 | 29 | 84 | 04/07 |
| AGS 3000 | 31.5 | 64.8 | . | 57.5 | 38 | 6 | 03/12 |
| PGX 16-3 | 30.5 | . | . | 47.9 | 35 | 70 | 04/13 |
| USG 3228 | 30.1 | . | . | 48.7 | 30 | 78 | 04/03 |
| P 243 | 28.7 | 40.6 | . | 50.6 | 31 | 78 | 04/08 |
| AGS 3201X | 19.8 | . | . | 44.2 | 34 | 89 | 04/12 |
| #BOSS | 13.3 | . | . | 56.0 | 28 | 88 | 04/14 |
| P 357 | 8.8 | 17.0 | 19.0 | 56.0 | 28 | 97 | 04/09 |
| Average | 73.2 [2] | 81.8 | 65.9 | 55.8 | 35 | 17 | 03/27 |
| LSD at 10% level | 8 | 6 | 5 | 1 | 2 | 7 | . |
| Std. Err. of Entry Mean | 3.3 | 2.4 | 2.3 | 0.5 | 0.7 | 3.2 | . |

# Tifton, Georgia:
# Wheat Grain Performance, 2016-2017
# (Continued)

1. Yields calculated as 60 pounds per bushel at 13.5% moisture.
2. C.V. = 9.0%, and df for EMS = 243.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | November 11, 2016. |
| Harvested: | May 26, 2017. |
| Seeding Rate: | 22 seeds per foot in 7" rows. |
| Soil Type: | Dothan loamy sand. |
| Soil Test: | P = Medium, K = Medium, and pH = 6.2. |
| Fertilization: | Preplant: 40 lb N, 100 lb $P_2O_5$, and 80 lb $K_2O$/acre. |
| | Topdress: 100 lb N/acre. |
| Management: | Disked, moldboard plowed, and rototilled; Harmony Extra used for weed control. |
| Previous Crop: | Peanuts. |

Test conducted by R. Brooke and D. Dunn.

# Tifton, Georgia:
# Late-Planted Wheat Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| SH 5550 | **80.6** | . | . | 52.9 | 34 | 8 | 04/08 |
| GAJT 141-14E45 | **76.2** | **84.3** | . | 53.4 | 31 | 18 | 04/07 |
| LA01110D-150-241 | 73.1 | . | . | 54.8 | 34 | 33 | 04/13 |
| AGS 3000 | 71.6 | . | . | 55.9 | 29 | 11 | 04/01 |
| Pioneer 26R94 | 64.9 | **74.7** | **54.5** | 55.9 | 33 | 10 | 04/03 |
| SY Cypress | 60.0 | **74.4** | **54.9** | 53.9 | 28 | 9 | 04/01 |
| VA11W-279 | 53.9 | . | . | 48.4 | 30 | 4 | 04/15 |
| LA03200E-2 | 53.9 | . | . | 51.0 | 30 | 15 | . |
| LA09264C-P5 | 52.2 | . | . | 50.5 | 30 | 15 | . |
| SH 7200 | 50.9 | . | . | 51.2 | 32 | 5 | 04/13 |
| LA09225C-33 | 50.5 | . | . | 50.8 | 30 | 15 | . |
| LA01110D-150-625 | 48.5 | . | . | 49.9 | 30 | 15 | . |
| USG 3689 | 25.4 | . | . | 43.8 | 33 | 9 | . |
| USG 3228 | 5.4 | . | . | 51.7 | 25 | . | . |
| Dyna-Gro 9750 | 4.7 | . | . | 51.7 | 24 | . | . |
| Average | 51.4 [2] | 77.8 | 54.7 | 51.7 | 30 | 13 | 04/07 |
| LSD at 10% level | 7 | NS[3] | NS | 1 | . | . | . |
| Std. Err. of Entry Mean | 3.1 | 1.8 | 1.3 | 0.5 | . | . | . |

1. Yields calculated as 60 pounds per bushel at 13.5% moisture.
2. C.V. = 12.2%, and df for EMS = 42.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: December 10, 2016.
Harvested: June 2, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Dothan loamy sand.
Soil Test: P = Medium, K = Medium, and pH = 6.3.
Fertilization: Preplant: 40 lb N, 100 lb $P_2O_5$, and 80 lb $K_2O$/acre.
Topdress: 100 lb N/acre.
Management: Disked, moldboard plowed, and rototilled; Harmony Extra used for weed control.
Previous Crop: Peanuts.

Test conducted by R. Brooke and D. Dunn.

# Plains, Georgia:
# Wheat Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| AGS 2024 | **101.3** | **93.9** | **83.4** | 55.0 | 30 | 6 | 03/26 |
| VA12W-72 | **95.0** | **89.0** | . | 53.8 | 33 | 13 | 04/01 |
| PGX16-1 | 93.2 | 81.0 | 72.2 | 55.8 | 34 | 8 | 04/05 |
| AGS 2033 | 92.9 | 86.1 | 79.2 | 56.7 | 32 | 6 | 04/01 |
| GAJT 141-14E45 | 90.2 | 86.5 | 76.9 | 52.7 | 31 | 19 | 03/25 |
| GA 06474-15EL56 | 90.1 | **89.6** | . | 54.6 | 33 | 25 | 03/25 |
| GA 09436-16LE12 | 90.1 | . | . | 57.7 | 33 | 5 | 03/26 |
| GA 051207-14E53 | 90.0 | 86.3 | 76.9 | 54.4 | 35 | 8 | 04/02 |
| GA08535-15LE29 | 90.0 | **89.4** | . | 55.8 | 32 | 5 | 03/26 |
| GA 08261-15EL7 | 88.9 | 82.3 | . | 57.4 | 33 | 14 | 03/30 |
| SH 5550 | 88.8 | 80.7 | 72.9 | 54.1 | 33 | 5 | 03/24 |
| GA 09129-16E55 | 87.6 | . | . | 55.7 | 32 | 10 | 03/25 |
| GA 081298-16LE1 | 87.6 | . | . | 55.1 | 34 | 9 | 03/27 |
| VA12W-68 | 87.3 | . | . | 54.5 | 32 | 9 | 03/31 |
| TX-EL2 | 86.8 | . | . | 54.5 | 32 | 24 | 03/25 |
| Pioneer 26R94 | 86.1 | 84.2 | 75.5 | 55.5 | 34 | 9 | 03/26 |
| GA 061471-15LE38 | 84.5 | 86.4 | . | 55.5 | 33 | 28 | 03/24 |
| GA 05450-15EL52 | 84.1 | 82.5 | . | 55.2 | 32 | 9 | 03/30 |
| GA 081113-15EL8 | 84.0 | 86.3 | . | 54.6 | 32 | 14 | 04/03 |
| PGX16-4 | 83.3 | 79.9 | 72.6 | 56.2 | 36 | 18 | 04/03 |
| LA03200E-2 | 82.3 | . | . | 54.7 | 31 | 8 | 03/24 |
| AGS 2038 | 82.2 | 80.3 | 69.9 | 56.3 | 35 | 9 | 03/23 |
| AGS 2027 | 81.9 | . | . | 54.4 | 32 | 33 | 04/02 |
| GA 091291-16LE28 | 81.9 | . | . | 54.8 | 33 | 4 | 03/25 |
| LA01110D-150-241 | 80.8 | . | . | 54.6 | 35 | 23 | 03/31 |
| GA 07192-14E9 | 80.5 | 82.2 | 73.6 | 54.4 | 33 | 5 | 03/23 |
| GA 06283-15LE25 | 79.8 | 75.9 | . | 52.8 | 30 | 28 | 03/26 |
| VA11W-108PA | 79.6 | . | . | 53.8 | 35 | 31 | 04/02 |
| GA 081446-15EL47 | 79.3 | 86.3 | . | 54.3 | 33 | 6 | 03/23 |
| VA11W-279 | 78.2 | . | . | 53.8 | 32 | 36 | 04/03 |
| GA 09377-16LE18 | 78.0 | . | . | 54.5 | 35 | 10 | 03/22 |
| Hilliard | 77.3 | 77.0 | 71.1 | 54.0 | 34 | 44 | 04/04 |
| GA 09656-16LE19 | 76.6 | . | . | 53.8 | 32 | 10 | 03/24 |
| LA09264C-P5 | 76.5 | . | . | 55.5 | 30 | 18 | 03/26 |
| GA 071518-16E39 | 75.8 | . | . | 55.0 | 31 | 11 | 03/24 |
| #BULLET | 75.6 | . | . | 52.3 | 36 | 55 | 04/18 |
| #TURBO | 75.3 | 76.1 | . | 52.4 | 35 | 13 | 04/03 |
| USG 3536 | 75.2 | 74.5 | . | 52.5 | 35 | 30 | 04/17 |
| AGS 2035 | 74.1 | . | . | 54.3 | 35 | 10 | 03/23 |
| SCLA 99049D-E1-J1 | 73.5 | . | . | 55.0 | 34 | 8 | 03/25 |
| LA09225C-33 | 73.2 | . | . | 52.8 | 32 | 29 | 03/25 |
| NC13-21213 | 72.8 | . | . | 54.3 | 35 | 65 | 04/13 |
| LA01110D-150-625 | 72.5 | . | . | 53.5 | 33 | 15 | 03/25 |
| SS 8415 | 72.3 | 65.7 | 61.5 | 53.1 | 34 | 69 | 04/04 |
| GA 071171-15EL64ES8 | 71.8 | 79.1 | . | 57.0 | 33 | 25 | 03/23 |

# Plains, Georgia:
# Wheat Grain Performance, 2016-2017
# (Continued)

| Brand-Variety | Yield[1] | Yield[1] 2-Year Average | Yield[1] 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | bu/acre | | | lb/bu | in | % | mo/day |
| Pioneer 26R41 | 71.7 | 70.3 | 68.1 | 52.5 | 32 | 30 | 04/15 |
| PGX 14-5 | 70.4 | . | . | 56.3 | 36 | 44 | 04/07 |
| Pioneer XW15C | 70.4 | . | . | 49.8 | 33 | 71 | 04/16 |
| NC09-20986 | 68.3 | 65.9 | 60.3 | 54.2 | 40 | 53 | 04/12 |
| Dyna-Gro Savoy | 67.9 | 84.5 | 78.7 | 53.5 | 33 | 10 | 03/24 |
| GA 08249-16E3 | 67.9 | . | . | 55.5 | 34 | 10 | 03/22 |
| SRW 9410 | 66.5 | 70.1 | 65.9 | 54.0 | 32 | 58 | 04/05 |
| GA 09656-16LE21 | 66.3 | . | . | 53.8 | 34 | 5 | 03/23 |
| SH 7200 | 66.3 | . | . | 55.5 | 33 | 55 | 04/06 |
| GA 07353-14E19 | 65.2 | 77.0 | 72.1 | 54.3 | 33 | 6 | 03/24 |
| GA 08510-15EL9 | 61.2 | 73.7 | . | 53.1 | 33 | 4 | 03/23 |
| USG 3448 | 61.1 | . | . | 53.1 | 32 | 48 | 04/15 |
| USG 3458 | 60.3 | . | . | 49.8 | 30 | 29 | 04/16 |
| SY Cypress | 59.3 | 61.9 | 57.5 | 54.0 | 31 | 24 | 03/25 |
| USG 3689 | 58.8 | . | . | 54.2 | 32 | 85 | 04/08 |
| Dyna-Gro 9750 | 58.4 | . | . | 48.9 | 33 | 66 | 04/09 |
| W010025Y1 | 57.1 | . | . | 53.8 | 34 | 33 | 03/26 |
| GA 071107-16E2 | 56.7 | . | . | 55.4 | 34 | 5 | 03/23 |
| #WARRIOR | 56.2 | 59.1 | . | 49.8 | 31 | 54 | 04/16 |
| W010025T1 | 55.0 | . | . | 53.0 | 33 | 46 | 03/25 |
| USG 3228 | 50.9 | . | . | 49.4 | 32 | 69 | 04/07 |
| Pioneer 26R59 | 49.8 | 55.8 | 57.1 | 49.6 | 29 | 36 | 04/14 |
| GA 071012-14E6 | 49.5 | 68.7 | 67.4 | 53.7 | 33 | 6 | 03/24 |
| W010025R1 | 47.6 | . | . | 50.6 | 33 | 38 | 03/25 |
| PGX 16-3 | 47.1 | . | . | 48.0 | 34 | 75 | 04/18 |
| Pioneer 26R10 | 46.4 | 50.3 | 49.0 | 50.3 | 32 | 44 | 04/15 |
| GA 08070-16E21 | 46.2 | . | . | 54.5 | 36 | 9 | 03/22 |
| GA 09241-16E24 | 45.3 | . | . | 56.1 | 35 | 4 | 03/19 |
| AGS 3201X | 40.8 | . | . | 51.3 | 38 | 86 | 04/11 |
| GA-Gore | 40.4 | . | . | 48.5 | 32 | 68 | 03/25 |
| GA 09241-16E23 | 38.9 | . | . | 55.3 | 35 | 4 | 03/19 |
| P 243 | 33.1 | 43.4 | . | 51.2 | 33 | 79 | 04/14 |
| #BOSS | 32.0 | . | . | 34.7 | 29 | 78 | 04/16 |
| UGA 12390-16E45 | 31.4 | . | . | 52.8 | 36 | 3 | 03/18 |
| AGS 3000 | 24.3 | 55.8 | . | 53.7 | 34 | 27 | 03/18 |
| P 357 | 19.5 | 22.8 | 25.9 | 53.7 | 31 | 90 | 04/18 |
| Average | 69.3 [2] | 74.8 | 67.6 | 53.5 | 33 | 28 | 03/31 |
| LSD at 10% level | 8.0 | 6.0 | 4.0 | 3.0 | 1 | 15 | . |
| Std. Err. of Entry Mean | 3.2 | 2.3 | 1.8 | 1.4 | 0.6 | 6.4 | . |

# Plains, Georgia:
# Wheat Grain Performance, 2016-2017
# (Continued)

1. Yields calculated as 60 pounds per bushel at 13.5% moisture.
2. C.V. = 9.4%, and df for EMS = 243.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | November 21, 2016. |
| Harvested: | June 9, 2017. |
| Seeding Rate: | 22 seeds per foot in 7" rows. |
| Soil Type: | Greenville sandy clay loam. |
| Soil Test: | P = High, K = Very High, and pH = 5.9. |
| Fertilization: | Preplant: 28 lb N, 80 lb $P_2O_5$, and 80 lb $K_2O$/acre. |
| | Topdress: 85 lb N/acre. |
| Management: | Disked, chisel plowed, field conditioned, and rototilled; 1,000 lb/acre lime. |
| Previous Crop: | Peanuts. |

Test conducted by D. Dunn, D. Pearce, W. Jones, and R. Brooke.

# Plains, Georgia:
# Wheat Grain Performance with Foliar Fungicide, 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| GA 051207-14E53 | **96.0** | **96.2** | . | 57.0 | 33 | 19 | 04/03 |
| AGS 2024 | **93.0** | **92.4** | **84.3** | 57.4 | 29 | 5 | 03/28 |
| AGS 2033 | **92.6** | 88.3 | **82.0** | 58.8 | 32 | 6 | 04/02 |
| PGX16-1 | **91.4** | 83.7 | 74.9 | 58.7 | 33 | 13 | 04/05 |
| VA12W-68 | **88.7** | . | . | 57.1 | 33 | 10 | 04/03 |
| SH 5550 | 86.4 | 81.9 | 75.8 | 57.4 | 30 | 9 | 03/26 |
| GAJT 141-14E45 | 84.1 | 83.5 | . | 56.1 | 29 | 13 | 03/24 |
| VA12W-72 | 82.3 | . | . | 56.1 | 32 | 6 | 04/02 |
| #BULLET | 82.2 | . | . | 56.0 | 36 | 30 | 04/15 |
| Pioneer 26R41 | 82.1 | 79.1 | 76.7 | 56.4 | 32 | 26 | 04/15 |
| VA11W-108PA | 81.5 | . | . | 56.7 | 33 | 19 | 04/09 |
| GA 07192-14E9 | 81.5 | 83.8 | . | 56.8 | 31 | 6 | 03/25 |
| AGS 2027 | 81.5 | . | . | 57.7 | 30 | 38 | 04/05 |
| TX-EL2 | 81.1 | . | . | 57.3 | 29 | 13 | 03/25 |
| Hilliard | 80.0 | 81.3 | . | 56.5 | 33 | 24 | 04/08 |
| VA11W-279 | 79.2 | . | . | 56.4 | 31 | 21 | 04/06 |
| Pioneer 26R94 | 78.4 | 79.6 | 75.3 | 58.5 | 32 | 6 | 03/26 |
| LA01110D-150-241 | 78.1 | . | . | 59.0 | 33 | 18 | 04/02 |
| SS 8415 | 77.8 | 79.6 | 73.0 | 57.4 | 34 | 48 | 04/08 |
| AGS 2038 | 77.3 | 81.3 | 71.9 | 59.7 | 33 | 18 | 03/30 |
| PGX16-4 | 75.1 | 74.6 | 68.9 | 58.6 | 33 | 20 | 04/05 |
| PGX 15-12 | 74.4 | 78.9 | . | 54.2 | 34 | 8 | 04/07 |
| PGX 14-5 | 74.4 | . | . | 58.2 | 36 | 20 | 04/08 |
| LA09225C-33 | 73.0 | . | . | 57.4 | 31 | 23 | 03/25 |
| USG 3536 | 72.7 | 70.7 | . | 55.9 | 35 | 24 | 04/17 |
| NC13-21213 | 72.4 | . | . | 55.8 | 32 | 35 | . |
| USG 3458 | 71.4 | . | . | 55.0 | 30 | 25 | 04/16 |
| GA 07353-14E19 | 71.1 | 82.8 | . | 57.4 | 31 | 5 | 03/25 |
| NC09-20986 | 69.7 | . | . | 58.0 | **40** | 40 | 04/08 |
| #WARRIOR | 69.7 | 75.1 | . | 55.5 | 29 | 30 | 04/16 |
| Pioneer 26R10 | 69.6 | 72.1 | 68.9 | 55.0 | 32 | 40 | 04/15 |
| LA03200E-2 | 69.4 | . | . | 57.2 | 30 | 9 | 03/26 |
| USG 3448 | 69.3 | . | . | 56.4 | 31 | 29 | 04/16 |
| AGS 2035 | 69.2 | . | . | 58.5 | 33 | 10 | 03/26 |
| Pioneer XW15C | 68.0 | . | . | 53.8 | 33 | 55 | 04/15 |
| USG 3689 | 67.8 | . | . | 58.1 | 34 | 56 | 04/10 |
| LA01110D-150-625 | 66.6 | . | . | 57.3 | 32 | 25 | 03/27 |
| SRW 9410 | 64.7 | 74.5 | 73.3 | 56.8 | 31 | 59 | 04/07 |
| SH 7200 | 63.3 | . | . | 58.6 | 33 | 45 | 04/04 |
| PGX 16-3 | 62.9 | . | . | 54.4 | 34 | 56 | 04/17 |
| LA09264C-P5 | 61.5 | . | . | 58.5 | 29 | 16 | 03/27 |
| Pioneer 26R59 | 60.1 | 69.9 | 69.2 | 53.0 | 29 | 26 | 04/16 |
| Dyna-Gro Savoy | 58.3 | . | . | 56.5 | 31 | 11 | 03/24 |
| SY Cypress | 57.0 | 67.2 | 65.2 | 58.5 | 29 | 15 | 03/24 |
| USG 3228 | 50.9 | . | . | 52.8 | 31 | 55 | 04/09 |

# Plains, Georgia:
# Wheat Grain Performance with Foliar Fungicide, 2016-2017 (Continued)

| Brand-Variety | Yield[1] | Yield[1] 2-Year Average | Yield[1] 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| AGS 3201X | 46.4 | . | . | 52.7 | 36 | 50 | 04/13 |
| Dyna-Gro 9750 | 44.8 | . | . | 48.6 | 32 | 53 | 04/12 |
| P 243 | 43.6 | 57.2 | . | 50.7 | 32 | 50 | 04/15 |
| GA 071012-14E6 | 40.0 | 63.1 | . | 50.3 | 29 | 5 | 03/25 |
| #BOSS | 36.5 | . | . | 45.7 | 29 | 48 | 04/19 |
| GA-Gore | 36.3 | . | . | 45.1 | 29 | 55 | 03/25 |
| AGS 3000 | 30.6 | 59.0 | . | 34.7 | 31 | 9 | 03/19 |
| P 357 | 30.0 | 38.2 | 39.8 | 36.8 | 29 | 70 | 04/19 |
| Average | 69.2 [2] | 75.8 | 71.4 | 55.2 | 32 | 27 | 04/04 |
| LSD at 10% level | 8.0 | 7.0 | 5.0 | 4.0 | 1 | 13 | . |
| Std. Err. of Entry Mean | 3.4 | 2.9 | 1.9 | 1.9 | 0.6 | 5.6 | . |

1. Yields calculated as 60 pounds per bushel at 13.5% moisture.
2. C.V. = 9.9%, and df for EMS = 159.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 21, 2016.
Harvested: June 9, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = Very High, and pH = 5.9.
Fertilization: Preplant: 28lb N, 80 lb $P_2O_5$, and 80 lb $K_2O$/acre.
Topdress: 85 lb N/acre.
Management: Disked, chisel plowed, field conditioned, and rototilled; 1,000 lb/acre lime; Prosaro used for fungal control..
Previous Crop: Peanuts.

Test conducted by D. Dunn, D. Pearce, W. Jones, and R. Brooke.

# Plains, Georgia:
# Late-Planted Wheat Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| Pioneer 26R94 | **90.7** | **85.2** | **69.6** | 57.1 | 35 | 10 | 04/05 |
| SH 5550 | 86.4 | . | **.** | 55.8 | 33 | 8 | 04/06 |
| AGS 3000 | 79.5 | **82.2** | **.** | 56.2 | 32 | 10 | 04/03 |
| GAJT 141-14E45 | 79.3 | **82.4** | **.** | 55.6 | 32 | 43 | 04/09 |
| LA01110D-150-241 | 73.4 | . | **.** | 54.5 | 38 | 48 | 04/14 |
| VA11W-279 | 70.3 | . | **.** | 52.3 | 29 | 8 | 04/16 |
| SY Cypress | 64.8 | 63.0 | **56.0** | 55.8 | 29 | 15 | 04/04 |
| SH 7200 | 61.2 | . | **.** | 55.4 | 31 | 11 | 04/15 |
| USG 3689 | 37.5 | . | **.** | 51.4 | 30 | 30 | . |
| USG 3228 | 33.0 | . | **.** | 46.6 | 30 | 53 | . |
| Dyna-Gro 9750 | 30.7 | . | **.** | 45.7 | 29 | 70 | . |
| Average | 64.2 [2] | 78.2 | 62.8 | 53.3 | 32 | 28 | 04/09 |
| LSD at 10% level | 4.0 | 5.0 | NS[3] | 1.0 | 1 | 13 | . |
| Std. Err. of Entry Mean | 1.7 | 1.8 | 1.3 | 0.4 | 0.6 | 5.7 | . |

1. Yields calculated as 60 pounds per bushel at 13.5% moisture.
2. C.V. = 5.2%, and df for EMS = 45.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: December 16, 2016.
Harvested: June 9, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = Very High, and pH = 5.9.
Fertilization: Preplant: 28 lb N, 80 lb $P_2O_5$, and 80 lb $K_2O$/acre.
Topdress: 85 lb N/acre.
Management: Disked, chisel plowed, field conditioned, and rototilled; 1,000 lb/acre lime.
Previous Crop: Peanuts.

Test conducted by D. Dunn, D. Pearce, W. Jones, and R. Brooke.

# Plains, Georgia: Late-Planted Wheat Grain Performance with Foliar Fungicide, 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| SH 7200 | **72.6** | . | . | 56.6 | 31 | 21 | . |
| USG 3228 | **71.5** | . | . | 54.7 | 32 | 18 | . |
| SY Cypress | **67.3** | **69.0** | **62.7** | 55.3 | 32 | 19 | . |
| VA11W-279 | **66.9** | . | . | 53.0 | 32 | 44 | . |
| USG 3689 | **65.6** | . | . | 55.1 | 31 | 28 | . |
| | **62.0** | . | . | 52.9 | 31 | 36 | . |
| SH 5550 | **58.5** | . | . | 54.3 | 32 | 11 | . |
| Dyna-Gro9750 | **56.8** | . | . | 52.1 | 31 | 53 | . |
| Pioneer 26R94 | 53.7 | **68.6** | **58.5** | 51.9 | 31 | 29 | . |
| GAJT 141-14E45 | 43.1 | **65.6** | . | 49.9 | 29 | 60 | . |
| AGS 3000 | 36.4 | **65.3** | . | 50.7 | 28 | 64 | . |
| Average | 59.5 [2] | 67.1 | 60.6 | 53.3 | 31 | 35 | . |
| LSD at 10% level | 17 | NS[3] | NS | 4 | 2 | 29 | . |
| Std. Err. of Entry Mean | 7.4 | 5.8 | 3.6 | 1.5 | 1.0 | 12.5 | . |

1. Yields calculated as 60 pounds per bushel at 13.5% moisture.
2. C.V. = 24.7%, and df for EMS = 46.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: December 16, 2016.
Harvested: June 9, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = Very High, and pH = 5.9.
Fertilization: Preplant: 28 lb N, 80 lb $P_2O_5$, and 80 lb $K_2O$/acre.
Topdress: 85 lb N/acre.
Management: Disked, chisel plowed, field conditioned, and rototilled; 1,000 lb/acre lime; Prosaro used for fungal control.
Previous Crop: Peanuts.

Test conducted by D. Dunn, D. Pearce, W. Jones, and R. Brooke.

# Midville, Georgia:
# Wheat Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | Yield[1] 2-Year Average | Yield[1] 3-Year Average | Test Weight | Height | Lodging |
|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % |
| GA 09656-16LE19 | **69.6** | . | . | 52.5 | 28 | 8 |
| GA 081298-16LE1 | **68.5** | . | . | 52.7 | 30 | 10 |
| W010025R1 | **67.8** | . | . | 54.7 | 30 | 14 |
| GA 07353-14E19 | **66.6** | **72.3** | **67.2** | 52.4 | 30 | 6 |
| AGS 2024 | **64.4** | **70.8** | 64.2 | 54.7 | 26 | 10 |
| GA 08261-15EL7 | **62.9** | **71.4** | . | 55.3 | 30 | 15 |
| SH 5550 | **62.6** | **78.7** | **71.3** | 53.2 | 27 | 9 |
| AGS 2033 | **62.4** | **76.0** | **70.3** | 54.7 | 28 | 5 |
| W010025T1 | **62.4** | . | . | 54.3 | 30 | 10 |
| GA 09436-16LE12 | **61.9** | . | . | 57.3 | 30 | 6 |
| GA 08510-15EL9 | **61.1** | **69.1** | . | 53.8 | 30 | 8 |
| SCLA 99049D-E1-J1 | **60.9** | . | . | 54.5 | 30 | 11 |
| W010025Y1 | **58.8** | . | . | 53.6 | 28 | 14 |
| GA 09377-16LE18 | **58.7** | . | . | 52.2 | 29 | 11 |
| AGS 2027 | **58.7** | . | . | 52.8 | 29 | 15 |
| SH 7200 | **58.3** | . | . | 54.2 | 30 | 13 |
| GA 091291-16LE28 | **57.9** | . | . | 53.1 | 30 | 10 |
| GA 071518-16E39 | **57.4** | . | . | 52.7 | 28 | 9 |
| GA08535-15LE29 | **57.3** | **77.9** | . | 53.9 | 27 | 5 |
| GA 071171-15EL64ES8 | **56.7** | **70.1** | . | 56.6 | 28 | 20 |
| VA12W-68 | **55.4** | . | . | 51.6 | 27 | 11 |
| GAJT 141-14E45 | **54.8** | 63.5 | 60.5 | 50.9 | 27 | 16 |
| VA12W-72 | **54.8** | **75.2** | . | 50.7 | 29 | 10 |
| GA 06283-15LE25 | 54.4 | **71.0** | . | 53.9 | 25 | 18 |
| PGX16-1 | 53.2 | 63.6 | 63.7 | 54.1 | 30 | 14 |
| LA03200E-2 | 52.8 | . | . | 49.5 | 26 | 18 |
| VA11W-279 | 52.5 | . | . | 50.9 | 25 | 11 |
| SY Cypress | 52.0 | 61.5 | 60.4 | 53.5 | 23 | 9 |
| GA 051207-14E53 | 52.0 | **75.0** | **70.1** | 51.2 | 29 | 11 |
| AGS 2035 | 50.9 | . | . | 54.2 | 26 | 9 |
| GA 081113-15EL8 | 50.8 | 60.3 | . | 52.5 | 26 | 11 |
| GA 09656-16LE21 | 50.7 | . | . | 52.7 | 24 | 10 |
| LA01110D-150-241 | 49.9 | . | . | 50.3 | 25 | 13 |
| Hilliard | 49.8 | 62.4 | 58.6 | 51.2 | 29 | 16 |
| GA 07192-14E9 | 49.7 | **70.2** | **64.7** | 52.1 | 26 | 11 |
| GA 09129-16E55 | 49.2 | . | . | 52.5 | 27 | 15 |
| SS 8415 | 49.2 | 56.1 | 53.6 | 49.6 | 29 | 10 |
| TX-EL2 | 48.8 | . | . | 50.2 | 25 | 31 |
| GA 06474-15EL56 | 48.6 | **70.5** | . | 50.7 | 25 | 9 |
| GA 071012-14E6 | 47.0 | 66.0 | 61.3 | 52.8 | 27 | 13 |
| GA-Gore | 46.9 | . | . | 50.9 | 27 | 25 |
| PGX16-4 | 46.9 | 61.8 | 61.2 | 54.1 | 28 | 13 |
| Pioneer 26R94 | 46.0 | 59.9 | 58.2 | 53.8 | 27 | 11 |
| GA 061471-15LE38 | 45.0 | **66.9** | . | 54.8 | 27 | 28 |
| GA 08249-16E3 | 44.1 | . | . | 51.7 | 26 | 6 |

# Midville, Georgia:
# Wheat Grain Performance, 2016-2017
# (Continued)

| Brand-Variety | Yield[1] | Yield[1] 2-Year Average | Yield[1] 3-Year Average | Test Weight | Height | Lodging |
|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % |
| Dyna-Gro Savoy | 43.7 | **78.7** | **73.5** | 53.0 | 24 | 26 |
| GA 05450-15EL52 | 43.5 | 61.8 | . | 53.0 | 24 | 9 |
| GA 081446-15EL47 | 42.8 | **68.9** | . | 54.3 | 24 | 8 |
| VA11W-108PA | 42.1 | . | . | 50.2 | 27 | 18 |
| Pioneer 26R41 | 40.3 | 55.4 | 56.5 | 51.6 | 26 | 5 |
| LA09225C-33 | 39.8 | . | . | 52.7 | 26 | 14 |
| #TURBBO | 39.5 | 51.0 | . | 48.5 | 27 | 6 |
| NC13-21213 | 39.2 | . | . | 50.5 | 26 | 18 |
| GA 09241-16E24 | 38.4 | . | . | 55.4 | 29 | 13 |
| AGS 2038 | 38.3 | **71.0** | 63.1 | 53.4 | 28 | 16 |
| USG 3689 | 38.0 | . | . | 54.1 | 29 | 16 |
| LA01110D-150-625 | 38.0 | . | . | 52.5 | 26 | 21 |
| GA 071107-16E2 | 37.6 | . | . | 55.1 | 25 | 13 |
| GA 08070-16E21 | 37.4 | . | . | 53.8 | 28 | 18 |
| PGX 14-5 | 36.7 | . | . | 54.2 | 28 | 11 |
| GA 09241-16E23 | 36.3 | . | . | 56.0 | 30 | 23 |
| #BULLET | 35.6 | . | . | 53.3 | 28 | 11 |
| LA09264C-P5 | 35.5 | . | . | 53.7 | 23 | 10 |
| NC09-20986 | 34.8 | 54.3 | 53.3 | 51.5 | 32 | 14 |
| SRW 9410 | 34.5 | 53.1 | 53.0 | 51.5 | 26 | 24 |
| USG 3536 | 33.3 | 59.2 | . | 50.2 | 28 | 15 |
| AGS 2027 | 32.5 | . | . | . | 24 | 5 |
| Pioneer XW15C | 31.8 | . | . | 50.8 | 27 | 21 |
| UGA 12390-16E45 | 31.1 | . | . | 54.4 | 26 | 7 |
| Pioneer 26R10 | 28.7 | 48.9 | 51.6 | 49.6 | 26 | 18 |
| USG 3458 | 27.3 | . | . | 47.6 | 23 | 5 |
| USG 3448 | 19.2 | . | . | 53.0 | 25 | 15 |
| AGS 3000 | 19.1 | 48.8 | . | 53.0 | 23 | 6 |
| Pioneer 26R59 | 18.8 | 44.0 | 48.4 | 47.4 | 22 | 14 |
| PGX 16-3 | 18.7 | . | . | 53.0 | 28 | 21 |
| #WARRIOR | 17.8 | 53.0 | . | 53.0 | 22 | 11 |
| USG 3228 | 15.6 | . | . | 53.0 | 25 | 81 |
| P 243 | 15.3 | 43.1 | . | 53.0 | 24 | 60 |
| AGS 3201X | 15.2 | . | . | 53.0 | 29 | 90 |
| Dyna-Gro 9750 | 14.8 | . | . | 53.0 | 25 | 78 |
| #BOSS | 6.6 | . | . | 53.0 | 22 | 92 |
| P 357 | 3.5 | 26.1 | 35.9 | 53.0 | 23 | 97 |
| Average | 44.0 [2] | 62.8 | 60.0 | 52.7 | 27 | 18 |
| LSD at 10% level | 15.0 | 12.0 | 9.0 | 1.0 | 4 | 11 |
| Std. Err. of Entry Mean | 6.1 | 5.2 | 3.8 | 0.5 | 1.6 | 4.6 |

# Midville, Georgia:
# Wheat Grain Performance, 2016-2017
# (Continued)

1. Yields calculated as 60 pounds per bushel at 13.5% moisture.
2. C.V. = 27.7%, and df for EMS = 242.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: December 1, 2016.
Harvested: June 2, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Dothan loamy sand.
Soil Test: P = Medium, K = High, and pH = 6.2.
Fertilization: Preplant: 30 lb N, 80 lb $P_2O_5$, and 50 lb $K_2O$/acre.
Topdress: 70 lb N/acre.
Management: Disked, chisel plowed, and rototilled; Harmony Extra and Express used for weed control.
Previous Crop: Soybeans.

Test conducted by D. Dunn, R. Brooke, and M. Cofield.

# Midville, Georgia:
# Late-Planted Wheat Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | Yield[1] 2-Year Average | Yield[1] 3-Year Average | Test Weight | Height | Lodging |
|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % |
| Pioneer 26R94 | **50.0** | **65.2** | **64.8** | 54.2 | 31 | 4 |
| AGS 3000 | **48.7** | **64.8** | . | 54.7 | 29 | 9 |
| SH 5550 | **46.9** | . | . | 53.1 | 28 | 6 |
| GAJT 141-14E45 | 45.1 | **62.4** | . | 49.6 | 26 | 11 |
| SY Cypress | 37.7 | **60.1** | **62.2** | 53.1 | 25 | 15 |
| LA03200E-2 | 36.2 | . | . | 50.7 | . | 0 |
| LA01110D-150-241 | 36.0 | . | . | 50.3 | . | 0 |
| LA09264C-P5 | 35.4 | . | . | 51.7 | . | 0 |
| LA09225C-33 | 34.6 | . | . | 49.4 | . | 0 |
| LA01110D-150-625 | 33.7 | . | . | 37.6 | 24 | 1 |
| SH 7200 | 30.6 | . | . | 52.5 | 27 | 4 |
| VA11W-279 | 25.9 | . | . | 49.1 | 23 | 3 |
| USG 3689 | 11.9 | . | . | 51.7 | 24 | 4 |
| USG 3228 | 1.7 | . | . | 51.7 | 19 | 0 |
| Dyna-Gro 9750 | 1.1 | . | . | 51.7 | 16 | 1 |
| Average | 31.7 [2] | 63.1 | 63.5 | 50.7 | 24 | 5 |
| LSD at 10% level | 4.0 | NS[3] | NS | NS | 1 | 3 |
| Std. Err. of Entry Mean | 1.7 | 1.3 | 1.3 | 3.3 | 0.5 | 1.3 |

1. Yields calculated as 60 pounds per bushel at 13.5% moisture.
2. C.V. = 10.6%, and df for EMS = 42.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: December 28, 2016.
Harvested: June 2, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Dothan loamy sand.
Soil Test: P = Medium, K = High, and pH = 6.2.
Fertilization: Preplant: 30 lb N, 80 lb $P_2O_5$, and 50 lb $K_2O$/acre.
Topdress: 70 lb N/acre.
Management: Disked, chisel plowed, and rototilled; Harmony Extr and Express used for weed control.
Previous Crop: Soybeans.

Test conducted by D. Dunn, R. Brooke, and M. Cofield.

# Athens, Georgia:
# Wheat Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| Pioneer XW15C | **98.9** | . | . | 50.3 | 37 | 50 | 04/11 |
| #WARRIOR | **98.2** | . | . | 47.6 | 35 | 61 | 04/08 |
| USG 3448 | **97.8** | . | . | 50.0 | 37 | 51 | 04/12 |
| USG 3536 | **97.3** | . | . | 49.1 | 39 | 46 | 04/13 |
| #BULLET | **96.8** | . | . | 49.3 | 37 | 46 | 04/13 |
| AGS 2055 | **94.3** | . | . | 48.0 | 35 | 3 | 03/31 |
| VA11W-108PA | **92.8** | . | . | 47.7 | 36 | 34 | 04/03 |
| Pioneer 26R41 | **90.8** | . | . | 49.0 | 34 | 14 | 04/11 |
| Dyna-Gro 9701 | **89.8** | . | . | 46.4 | 40 | 51 | 04/11 |
| SH 7200 | **89.7** | . | . | 50.8 | 34 | 15 | 03/28 |
| USG 3228 | **89.6** | . | . | 48.4 | 36 | 49 | 04/01 |
| #BOSS | **89.6** | . | . | 48.2 | 34 | 18 | 04/09 |
| SY Viper | **89.1** | . | . | 48.7 | 36 | 60 | 03/30 |
| #TURBO | **88.4** | . | . | 51.8 | 34 | 0 | 03/30 |
| Dyna-Gro 9750 | **88.2** | . | . | 48.2 | 35 | 26 | 04/01 |
| LA01110D-150-241 | **88.0** | . | . | 49.2 | 35 | 4 | 03/26 |
| Pioneer 26R59 | 87.6 | . | . | 47.5 | 33 | 16 | 04/08 |
| Dyna-Gro 9171 | 85.8 | . | . | 46.6 | 36 | 21 | 04/08 |
| VA12W-72 | 84.3 | . | . | 48.3 | 32 | 0 | 03/29 |
| PGX16-4 | 84.0 | . | . | 50.3 | 34 | 5 | 03/27 |
| PGX 16-3 | 82.9 | . | . | 46.1 | 39 | 65 | 04/14 |
| VA12W-68 | 81.8 | . | . | 49.1 | 33 | 13 | 03/30 |
| USG 3458 | 81.0 | . | . | 46.0 | 35 | 35 | 04/08 |
| Dyna-Gro 9522 | 80.8 | . | . | 47.0 | 37 | 50 | 04/13 |
| SRW 9410 | 80.5 | . | . | 46.3 | 36 | 55 | 04/06 |
| P 243 | 79.1 | . | . | 47.7 | 36 | 64 | 04/07 |
| WX16722 | 78.7 | . | . | 43.2 | 35 | 48 | 04/10 |
| GA 091291-16LE28 | 78.4 | . | . | 50.1 | 35 | 3 | 03/28 |
| PGX16-1 | 78.0 | . | . | 47.6 | 34 | 4 | 03/27 |
| Hilliard | 77.9 | . | . | 44.2 | 37 | 50 | 04/05 |
| VA11W-279 | 77.4 | . | . | 47.0 | 31 | 6 | 03/28 |
| GA 06283-15LE25 | 76.3 | . | . | 47.4 | 35 | 71 | 03/26 |
| SX1790 | 75.0 | . | . | 44.6 | 37 | 80 | 04/02 |
| Pioneer 26R10 | 74.7 | . | . | 45.4 | 35 | 14 | 04/14 |
| SCLA 99049D-E1-J1 | 73.0 | . | . | 52.8 | 37 | 0 | 03/25 |
| USG 3689 | 72.7 | . | . | 48.3 | 38 | 73 | 04/02 |
| NC13-21213 | 72.6 | . | . | 44.4 | 36 | 83 | 04/01 |
| GA 081113-15EL8 | 72.4 | . | . | 48.4 | 34 | 11 | 03/25 |
| SS 8415 | 70.7 | . | . | 44.0 | 36 | 13 | 03/31 |
| GA 061471-15LE38 | 70.4 | . | . | 49.7 | 38 | 65 | 03/29 |
| PGX 14-5 | 70.3 | . | . | 49.5 | 40 | 69 | 04/04 |
| GA-Gore | 69.9 | . | . | 43.3 | 35 | 18 | 03/31 |
| GA 051207-14E53 | 68.2 | . | . | 45.7 | 35 | 11 | 03/27 |
| GA 09436-16LE12 | 67.7 | . | . | 51.4 | 36 | 8 | 03/28 |
| NC09-20986 | 67.5 | . | . | 45.9 | 35 | 46 | 03/31 |

# Athens, Georgia:
# Wheat Grain Performance, 2016-2017
# (Continued)

| Brand-Variety | Yield[1] | Yield[1] 2-Year Average | Yield[1] 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| AGS 2024 | 67.3 | . | . | 52.3 | 34 | 0 | 03/29 |
| GAJT 141-14E45 | 66.7 | . | . | 45.7 | 32 | 13 | 03/24 |
| TX-EL2 | 66.3 | . | . | 49.5 | 33 | 0 | 03/26 |
| GA 05450-15EL52 | 62.9 | . | . | 48.2 | 33 | 3 | 03/28 |
| LA09225C-33 | 62.2 | . | . | 48.3 | 37 | 0 | 03/27 |
| GA 081298-16LE1 | 61.7 | . | . | 48.0 | 36 | 3 | 03/29 |
| SH 5550 | 61.5 | . | . | 48.6 | 34 | 0 | 03/25 |
| GA08535-15LE29 | 58.5 | . | . | 46.8 | 32 | 6 | 03/26 |
| P 357 | 55.0 | . | . | 35.7 | 36 | 74 | 04/14 |
| GA 07192-14E9 | 55.0 | . | . | 47.2 | 35 | 0 | 03/26 |
| GA 071518-16E39 | 52.5 | . | . | 44.5 | 31 | 0 | 03/27 |
| GA 08510-15EL9 | 52.4 | . | . | 43.5 | 32 | 8 | 03/22 |
| GA 09129-16E55 | 51.4 | . | . | 45.7 | 35 | 0 | 03/22 |
| GA 06474-15EL56 | 51.3 | . | . | 39.8 | 34 | 3 | 03/21 |
| GA 071171-15EL64ES8 | 49.3 | . | . | 42.4 | 36 | 0 | 03/19 |
| GA 071107-16E2 | 48.9 | . | . | 42.6 | 34 | 0 | 03/28 |
| Dyna-Gro Savoy | 45.3 | . | . | 33.8 | 31 | 0 | 03/23 |
| GA 08261-15EL7 | 43.8 | . | . | 38.3 | 34 | 0 | 03/24 |
| GA 09656-16LE19 | 43.7 | . | . | 37.0 | 32 | 0 | 03/24 |
| LA01110D-150-625 | 43.5 | . | . | 39.6 | 33 | 0 | 03/25 |
| Pioneer 26R94 | 43.3 | . | . | 40.0 | 35 | 0 | 03/26 |
| GA 09377-16LE18 | 43.2 | . | . | 38.2 | 33 | 0 | 03/29 |
| GA 07353-14E19 | 43.1 | . | . | 35.7 | 34 | 0 | 03/26 |
| W010025R1 | 41.6 | . | . | 36.5 | 34 | 0 | 03/25 |
| GA 08070-16E21 | 39.9 | . | . | 35.3 | 31 | 0 | 03/17 |
| GA 09656-16LE21 | 38.8 | . | . | 31.3 | 33 | 0 | 03/22 |
| GA 08249-16E3 | 38.3 | . | . | 32.3 | 32 | 0 | 03/18 |
| W010025Y1 | 36.9 | . | . | 31.1 | 32 | 0 | 03/22 |
| GA 081446-15EL47 | 35.8 | . | . | 30.6 | 34 | 0 | 03/21 |
| GA 071012-14E6 | 34.8 | . | . | 28.7 | 31 | 0 | 03/26 |
| UGA 12390-16E45 | 33.7 | . | . | 28.3 | 33 | 0 | 03/11 |
| LA09264C-P5 | 33.2 | . | . | 27.1 | 32 | 0 | 03/25 |
| GA 09241-16E24 | 32.4 | . | . | 25.3 | 31 | 0 | 03/14 |
| W010025T1 | 32.3 | . | . | 28.7 | 34 | 0 | 03/23 |
| LA03200E-2 | 32.1 | . | . | 25.6 | 34 | 0 | 03/24 |
| GA 09241-16E23 | 25.3 | . | . | 16.7 | 31 | 0 | 03/11 |
| Average | 66.4 [2] | . | . | 43.4 | 34 | 20 | 03/29 |
| LSD at 10% level | 11.0 | . | . | 7.0 | 2 | 19 | . |
| Std. Err. of Entry Mean | 4.8 | . | . | 2.8 | 0.9 | 8.0 | . |

# Athens, Georgia:
# Wheat Grain Performance, 2016-2017
# (Continued)

1. Yields calculated as 60 pounds per bushel at 13.5% moisture.
2. C.V. = 14.3%, and df for EMS = 240.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

| | |
|---|---|
| Planted: | October 27, 2016. |
| Harvested: | June 13, 2017. |
| Seeding Rate: | 22 seeds per foot in 7" rows. |
| Soil Type: | Augusta A/Chewacla silt loam. |
| Soil Test: | P = Medium, K = Low, and pH = 6.1. |
| Fertilization: | Preplant: 20 lb N, 120 lb $P_2O_5$, and 240 lb $K_2O$/acre. |
| | Topdress: 80 lb N/acre. |
| Management: | Chisel plowed, disked, and rototilled; Harmony Extra and Powerflex used for weed control; Karate and Sivanto used for insect control. |
| Previous Crop: | Sorghum. |

Test conducted by H. Jordan and G. Ware.

# Calhoun, Georgia:
# Wheat Grain Performance, 2016-2017

| Brand-Variety | Yield | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |

A wheat grain trial was planned for this location. However, due to extreme drought conditions from October through December, the trial could not be planted. Therefore, there are no results to publish.

# Summary of Wheat Yields:
# Georgia, 2016-2017 with Two- and Three-Year Averages

| | Yield[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | South[2] | | | North[3] | | | Statewide | | |
| Brand-Variety | 2017 | 2-Year Average | 3-Year Average | 2017 | 2-Year Average[4] | 3-Year Average[5] | 2017 | 2-Year Average | 3-Year Average |
| | bu/acre | | | | | | | | |
| #BOSS | 17.3 | . | . | **89.6** | . | . | 35.4 | . | . |
| #BULLET | 61.8 | . | . | **96.8** | . | . | 70.6 | . | . |
| #TURBO | 67.7 | 72.1 | . | **88.4** | . | . | 72.9 | . | . |
| #WARRIOR | 39.9 | 55.9 | . | **98.2** | **93.0** | . | 54.5 | 65.2 | . |
| AGS 2024 | **85.7** | **87.9** | **76.3** | 67.3 | 75.6 | 80.4 | **81.1** | **84.8** | **77.3** |
| AGS 2027 | 78.4 | . | . | . | . | . | . | . | . |
| AGS 2033 | **86.1** | **87.7** | **77.8** | . | . | . | . | . | . |
| AGS 2035 | 66.2 | . | . | . | . | . | . | . | . |
| AGS 2038 | 68.7 | 79.8 | 66.5 | . | . | . | . | . | . |
| AGS 2055 | . | . | . | **94.3** | 81.0 | 77.8 | . | . | . |
| AGS 3000 | 24.9 | 56.7 | . | . | . | . | . | . | . |
| AGS 3201X | 25.3 | . | . | . | . | . | . | . | . |
| Dyna-Gro 9171 | . | . | . | 85.8 | 78.0 | 83.8 | . | . | . |
| Dyna-Gro 9522 | . | . | . | 80.8 | 78.6 | 84.1 | . | . | . |
| Dyna-Gro 9701 | . | . | . | **89.8** | . | . | . | . | . |
| Dyna-Gro 9750 | 35.3 | . | . | **88.2** | . | . | 48.5 | . | . |
| Dyna-Gro Savoy | 62.8 | **84.6** | **76.4** | 45.3 | 74.1 | 75.0 | 58.4 | **82.0** | **76.0** |
| GA 051207-14E53 | 77.2 | 83.5 | 73.4 | 68.2 | 71.7 | 72.9 | 75.0 | 80.6 | 73.3 |
| GA 05450-15EL52 | 67.0 | 74.9 | . | 62.9 | 62.6 | . | 66.0 | 71.8 | . |
| GA 061471-15LE38 | 71.9 | 80.6 | . | 70.4 | 71.7 | . | 71.5 | 78.4 | . |
| GA 06283-15LE25 | 77.1 | 80.7 | . | 76.3 | 80.6 | . | 76.9 | 80.7 | . |
| GA 06474-15EL56 | 81.6 | **87.4** | . | 51.3 | . | . | 74.0 | . | . |
| GA 071012-14E6 | 53.6 | 71.2 | 65.0 | 34.8 | 54.6 | 63.3 | 48.9 | 67.1 | 64.6 |
| GA 071107-16E2 | 51.7 | . | . | 48.9 | . | . | 51.0 | . | . |
| GA 071171-15EL64ES8 | 71.4 | 80.1 | . | 49.3 | 60.8 | . | 65.9 | 75.3 | . |
| GA 071518-16E39 | 71.0 | . | . | 52.5 | . | . | 66.4 | . | . |
| GA 07192-14E9 | 72.4 | 81.6 | 71.4 | 55.0 | 60.6 | 68.0 | 68.0 | 76.3 | 70.5 |
| GA 07353-14E19 | 65.3 | 78.1 | 70.0 | 43.1 | . | . | 59.7 | . | . |
| GA 08070-16E21 | 51.7 | . | . | 39.9 | . | . | 48.8 | . | . |
| GA 081113-15EL8 | 79.5 | 82.2 | . | 72.4 | 77.9 | . | **77.7** | 81.1 | . |
| GA 081298-16LE1 | **87.4** | . | . | 61.7 | . | . | **81.0** | . | . |
| GA 081446-15EL47 | 68.6 | 82.5 | . | 35.8 | 62.6 | . | 60.4 | 77.6 | . |
| GA 08249-16E3 | 60.8 | . | . | 38.3 | . | . | 55.2 | . | . |
| GA 08261-15EL7 | **82.2** | 81.5 | . | 43.8 | . | . | 72.6 | . | . |
| GA 08510-15EL9 | 62.8 | 74.8 | . | 52.4 | 70.0 | . | 60.2 | 73.6 | . |
| GA 08535-15LE29 | 79.2 | **89.4** | . | 58.5 | . | . | 74.0 | . | . |
| GA 091291-16LE28 | 78.4 | . | . | 78.4 | . | . | **78.4** | . | . |
| GA 09129-16E55 | 80.9 | . | . | 51.4 | . | . | 73.5 | . | . |
| GA 09241-16E23 | 48.3 | . | . | 25.3 | . | . | 42.6 | . | . |
| GA 09241-16E24 | 50.5 | . | . | 32.4 | . | . | 46.0 | . | . |

# Summary of Wheat Yields: Georgia, 2016-2017 with Two- and Three-Year Averages (Continued)

| Brand-Variety | Yield[1] South[2] 2017 | South 2-Year Average | South 3-Year Average | North[3] 2017 | North 2-Year Average[4] | North 3-Year Average[5] | Statewide 2017 | Statewide 2-Year Average | Statewide 3-Year Average |
|---|---|---|---|---|---|---|---|---|---|
| | bu/acre | | | | | | | | |
| GA 09377-16LE18 | 72.5 | . | . | 43.2 | . | . | 65.2 | . | . |
| GA 09436-16LE12 | **84.0** | . | . | 67.7 | . | . | **79.9** | . | . |
| GA 09656-16LE19 | 73.0 | . | . | 43.7 | . | . | 65.7 | . | . |
| GA 09656-16LE21 | 63.0 | . | . | 38.8 | . | . | 57.0 | . | . |
| GA-Gore | 46.5 | . | . | 69.9 | 66.3 | 60.5 | 52.4 | . | . |
| GAJT 141-14E45 | **83.8** | 83.7 | 72.7 | 66.7 | 66.9 | 69.6 | **79.5** | 79.5 | 71.9 |
| Hilliard | 67.7 | 75.4 | 66.9 | 77.9 | 82.0 | 82.0 | 70.3 | 77.1 | 70.6 |
| LA 01110D-150-241 | 80.1 | . | . | **88.0** | . | . | **82.1** | . | . |
| LA 01110D-150-625 | 69.9 | . | . | 43.5 | . | . | 63.3 | . | . |
| LA 03200E-2 | 76.9 | . | . | 32.1 | . | . | 65.7 | . | . |
| LA 09225C-33 | 68.3 | . | . | 62.2 | . | . | 66.8 | . | . |
| LA 09264C-P5 | 64.2 | . | . | 33.2 | . | . | 56.4 | . | . |
| NC 09-20986 | 55.1 | 63.6 | 56.9 | 67.5 | 66.9 | 63.2 | 58.2 | 64.4 | 58.5 |
| NC 13-21213 | 62.0 | . | . | 72.6 | . | . | 64.7 | . | . |
| P 243 | 25.7 | 42.4 | . | 79.1 | 71.1 | . | 39.0 | 49.5 | . |
| P 357 | 10.6 | 22.0 | 26.9 | 55.0 | 57.6 | 64.5 | 21.7 | 30.9 | 36.3 |
| PGX 14-5 | 55.2 | . | . | 70.3 | . | . | 59.0 | . | . |
| PGX 16-1 | 80.2 | 80.3 | 72.3 | 78.0 | 74.5 | 75.6 | **79.7** | 78.8 | 73.1 |
| PGX 16-3 | 32.1 | . | . | 82.9 | . | . | 44.8 | . | . |
| PGX 16-4 | 73.8 | 78.3 | 69.6 | 84.0 | 78.1 | 74.6 | 76.3 | 78.2 | 70.8 |
| Pioneer 26R10 | 36.6 | 48.4 | 45.6 | 74.7 | 72.9 | 80.7 | 46.1 | 54.5 | 54.3 |
| Pioneer 26R41 | 62.7 | 66.3 | 61.3 | **90.8** | **87.1** | **91.0** | 69.7 | 71.5 | 68.7 |
| Pioneer 26R59 | 35.4 | 50.7 | 49.2 | 87.6 | **87.5** | **93.7** | 48.4 | 59.9 | 60.3 |
| Pioneer 26R94 | 71.5 | 77.9 | 68.5 | 43.3 | 56.0 | 60.9 | 64.4 | 72.4 | 66.6 |
| Pioneer XW15C | 48.4 | . | . | **98.9** | . | . | 61.0 | . | . |
| SCLA 99049D-E1-J1 | 70.6 | . | . | 73.0 | . | . | 71.2 | . | . |
| SH 5550 | **83.6** | **85.9** | **75.1** | 61.5 | 65.7 | 72.9 | **78.1** | 80.9 | **74.6** |
| SH 7200 | 72.7 | . | . | **89.7** | . | . | **76.9** | . | . |
| SRW 9410 | 55.5 | 65.6 | 61.1 | 80.5 | 77.6 | 73.4 | 61.7 | 68.6 | 64.2 |
| SS 8415 | 57.2 | 61.5 | 56.0 | 70.7 | 71.0 | 76.1 | 60.6 | 63.9 | 61.0 |
| SX1790 | . | . | . | 75.0 | . | . | . | . | . |
| SY Cypress | 57.0 | 66.0 | 60.5 | . | . | . | . | . | . |
| SY Viper | . | . | . | **89.1** | **87.5** | . | . | . | . |
| TX-EL2 | 72.1 | . | . | 66.3 | . | . | 70.7 | . | . |
| UGA 12390-16E45 | 45.0 | . | . | 33.7 | . | . | 42.2 | . | . |
| USG 3228 | 32.2 | . | . | **89.6** | . | . | 46.6 | . | . |
| USG 3448 | 41.4 | . | . | **97.8** | . | . | 55.5 | . | . |
| USG 3458 | 43.7 | . | . | 81.0 | . | . | 53.0 | . | . |
| USG 3536 | 59.4 | 69.8 | . | **97.3** | **86.8** | . | 68.9 | 74.0 | . |
| USG 3689 | 51.9 | . | . | 72.7 | . | . | 57.1 | . | . |

# Summary of Wheat Yields:
# Georgia, 2016-2017 with Two- and Three-Year Averages
# (Continued)

| | Yield[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | South[2] | | | North[3] | | | Statewide | | |
| Brand-Variety | 2017 | 2-Year Average | 3-Year Average | 2017 | 2-Year Average[4] | 3-Year Average[5] | 2017 | 2-Year Average | 3-Year Average |
| | bu/acre | | | | | | | | |
| VA11W-108PA | 67.8 | . | . | **92.8** | . | . | 74.0 | . | . |
| VA11W-279 | 74.1 | . | . | 77.4 | . | . | 74.9 | . | . |
| VA12W-68 | 76.2 | . | . | 81.8 | . | . | **77.6** | . | . |
| VA12W-72 | 82.1 | **87.6** | . | 84.3 | 81.8 | . | **82.6** | **86.1** | . |
| W010025R1 | 62.8 | . | . | 41.6 | . | . | 57.5 | . | . |
| W010025T1 | 64.9 | . | . | 32.3 | . | . | 56.7 | . | . |
| W010025Y1 | 60.9 | . | . | 36.9 | . | . | 54.9 | . | . |
| WX16722 | . | . | . | 78.7 | . | . | . | . | . |
| Average | 62.4 | 73.6 | 64.5 | 66.5 | 73.0 | 74.7 | 63.2 | 71.9 | 66.3 |
| LSD @ 10% Level | 5.2 | 4.8 | 3.7 | 11.1 | 9.6 | 8.6 | 5.2 | 4.3 | 3.4 |
| Standard Error of Entry Mean | 2.6 | 2.1 | 1.6 | 2.7 | 2.0 | 1.9 | 2.6 | 2.1 | 1.7 |

1. Yields calculated at 60 pounds per bushel at 13.5% moisture.
2. Tifton, Plains, and Midville.
3. Athens and Calhoun. No 2017 Calhoun data available due to drought conditions.
4. 2-year average data comprised of 2017 Athens, 2016 Griffin, and 2016 Calhoun data. Griffin provided Piedmont region data in previous years.
5. 3-year average data comprised of 2017 Athens, 2015 Griffin, and 2015 Calhoun data..

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

# Summary of Late-Planted Wheat Yields: Georgia, 2016-2017 with Two- and Three-Year Averages

| | Yield[1] | | |
|---|---|---|---|
| | South[2] | | |
| Brand-Variety | 2017 | 2-Year Average | 3-Year Average |
| | ---------- bu/acre ---------- | | |
| AGS 3000 | **66.6** | **73.7** | . |
| Dyna-Gro 9750 | 12.1 | . | . |
| GAJT 141-14E45 | **66.8** | **76.4** | . |
| LA01110D-150-241 | 60.8 | . | . |
| Pioneer 26R94 | **68.5** | **75.0** | **63.0** |
| SH 5550 | **71.3** | . | . |
| SH 7200 | 47.6 | . | . |
| SY Cypress | 54.1 | 65.8 | **57.7** |
| USG 3228 | 13.4 | . | . |
| USG 3689 | 25.0 | . | . |
| VA11W-279 | 50.1 | . | . |
| Average | 48.8 | 72.7 | 60.4 |
| LSD at 10% Level | 5.0 | 3.5 | NS[3] |
| Standard Error of Entry Mean | 2.13 | 1.44 | 1.89 |

1. Yields calculated at 60 pounds per bushel at 13.5% moisture.
2. Tifton, Plains, and Midville.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

# Plains, Georgia:
# Uniform Southern Soft Red Winter Wheat Nursery, 2016-2017

| Brand-Variety | Yield[1] | Test Weight | Heading Date | Height | Leaf Rust | Stripe Rust |
|---|---|---|---|---|---|---|
| | bu/acre | lb/bu | Julian days[2] | in | ------ rating[3] ------ | |
| GA06474-15E56 | **90.5** | . | 85 | . | 0 | 0 |
| TN1701 | **87.8** | . | 86 | . | 5 | 0 |
| NC13-21213 | **83.5** | . | 101 | . | 0 | 0 |
| GA061471-15LE38 | **83.2** | . | 85 | . | 0 | 0 |
| AR051160-14LE31 | **82.5** | . | 93 | . | 1 | 0 |
| OCW04S405S-11F | **80.1** | . | 87 | . | 5 | 0 |
| LA09225C-33 | **79.9** | . | 85 | . | 0 | 0 |
| VA11W-108PA | **79.5** | . | 89 | . | 0 | 0 |
| Jamestown | 76.7 | . | 93 | . | 0 | 0 |
| TX-EL2 | 75.9 | . | 87 | . | 6 | 0 |
| B12*2209# | 75.1 | . | 85 | . | 3 | 0 |
| Hilliard | 74.9 | . | 98 | . | 2 | 0 |
| GA08535-15LE29 | 74.1 | . | 85 | . | 3 | 1 |
| OCW03S580S-8WF | 72.1 | . | 87 | . | 2 | 0 |
| VA09MAS1-12-8-4 | 69.6 | . | 89 | . | 5 | 0 |
| B13*3189 | 67.9 | . | 83 | . | 5 | 0 |
| LA08265C-50 | 65.8 | . | 85 | . | 0 | 0 |
| LA09264C-P5 | 62.8 | . | 86 | . | 3 | 1 |
| TN1703 | 62.6 | . | 97 | . | 8 | 0 |
| KWS103 | 60.2 | . | 101 | . | 0 | 0 |
| B13*3051 | 56.6 | . | 94 | . | 8 | 0 |
| VA09MAS6-122-7-1 | 56.5 | . | 88 | . | 0 | 0 |
| Pioneer Brand 26R41 | 56.2 | . | 101 | . | 5 | 0 |
| AR06473-9-4-4 | 55.8 | . | 86 | . | 0 | 0 |
| GA08510-15E9 | 54.5 | . | 85 | . | 0 | 0 |
| LES15-5593 | 54.1 | . | 106 | . | 0 | 0 |
| DH11SRW070-14 | 53.7 | . | 86 | . | 2 | 0 |
| NC13-23443 | 52.1 | . | 97 | . | 0 | 0 |
| 15MDX-6 | 47.7 | . | 84 | . | 4 | 3 |
| 15MDX-11 | 46.6 | . | 87 | . | 5 | 1 |
| AGS 2000 | 40.6 | . | 80 | . | 0 | 7 |
| 15MDX-5 | 36.3 | . | 83 | . | 4 | 5 |
| LES15-7002 | 35.5 | . | 97 | . | 3 | 2 |
| KWS114 | 30.3 | . | 96 | . | 0 | 0 |
| TN1702 | 29.8 | . | 102 | . | 2 | 0 |
| KWS141 | 29.1 | . | 102 | . | 0 | 0 |
| Average | 62.2 [4] | | 91 | | 2 | 1 |
| LSD at 5% Level | 13 | | | | | |

# Plains, Georgia:
# Uniform Southern Soft Red Winter Wheat Nursery, 2016-2017 (Continued)

1. Yields calculated as 60 pounds per bushel.
2. Days from January 1.
3. Rating: 0 = resistant to 9 = very susceptible.
4. C.V. = 16%.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.05).

| | |
|---|---|
| Planted: | November 17, 2016. |
| Harvested: | May 18, 2017. |
| Seeding Rate: | 22 seeds per foot in 7" rows. |
| Soil Type: | Greenville sandy loam. |
| Fertilization: | Preplant: 15 lb N/acre. Topdress: 80 lb N/acre. |
| Comments: | Test weight and height data not available due to freeze damage. |

Test conducted by M. Mergoum, J. Johnson, S. Sutton, B. Lopez, and J. Youmans.

# Griffin, Georgia:
# Uniform Southern Soft Red Winter Wheat Nursery, 2016-2017

| Brand-Variety | Yield[1] | Test Weight | Heading Date | Height | Stripe Rust |
|---|---|---|---|---|---|
| | bu/acre | lb/bu | Julian days[2] | in | rating[3] |
| Pioneer Brand 26R41 | **90.7** | 55.8 | 100 | 31 | 0 |
| Hilliard | **81.8** | 55.0 | 100 | 33 | 1 |
| VA09MAS1-12-8-4 | 78.4 | 56.1 | 99 | 36 | 1 |
| NC13-21213 | 77.1 | 56.4 | 99 | 34 | 1 |
| VA11W-108PA | 76.9 | 54.7 | 100 | 34 | 1 |
| KWS103 | 71.9 | 55.2 | 100 | 35 | 0 |
| LES15-5593 | 71.8 | 55.6 | 99 | 36 | 0 |
| VA09MAS6-122-7-1 | 70.8 | 55.2 | 100 | 31 | 2 |
| LES15-7002 | 67.6 | 54.4 | 99 | 32 | 1 |
| KWS114 | 64.2 | 55.0 | 104 | 34 | 1 |
| KWS141 | 63.6 | 55.3 | 100 | 32 | 1 |
| AR051160-14LE31 | 62.9 | 55.3 | 91 | 30 | 1 |
| TN1702 | 57.2 | 52.5 | 102 | 33 | 1 |
| GA061471-15LE38 | 55.3 | 53.5 | 100 | 31 | 1 |
| B13*3051 | 54.3 | 51.2 | 89 | 34 | 1 |
| TN1703 | 48.9 | 45.7 | 100 | 27 | 1 |
| NC13-23443 | 48.0 | 42.4 | 99 | 36 | 1 |
| TN1701 | 47.4 | 44.0 | 87 | 31 | 2 |
| LA09225C-33 | 47.3 | 45.7 | 89 | 34 | 1 |
| LA09264C-P5 | 46.3 | 43.6 | 90 | 30 | 2 |
| TX-EL2 | 46.1 | . | 89 | 32 | 1 |
| DH11SRW070-14 | 45.3 | . | 99 | 31 | 1 |
| LA08265C-50 | 44.0 | 41.2 | 88 | 30 | 1 |
| B12*2209# | 43.5 | 41.2 | 89 | 32 | 1 |
| B13*3189 | 42.3 | . | 89 | 35 | 2 |
| GA08535-15LE29 | 40.0 | . | 89 | 32 | 1 |
| GA08510-15E9 | 33.3 | . | 88 | 29 | 1 |
| OCW03S580S-8WF | 32.1 | . | 99 | 29 | 2 |
| OCW04S405S-11F | 30.9 | . | 99 | 31 | 3 |
| GA06474-15E56 | 29.4 | . | 87 | 28 | 1 |
| 15MDX-6 | 29.0 | . | 88 | 28 | 2 |
| AR06473-9-4-4 | 27.0 | . | 88 | 30 | 2 |
| 15MDX-5 | 25.5 | . | 90 | 30 | 1 |
| 15MDX-11 | 25.4 | . | 90 | 28 | 2 |
| Jamestown | 21.3 | . | 89 | 36 | 3 |
| AGS 2000 | 16.0 | . | 88 | 31 | 3 |
| Average | 50.4 [4] | 51.1 | 94 | 32 | 1 |
| LSD at 5% Level | 12 | | | | |

# Griffin, Georgia:
# Uniform Southern Soft Red Winter Wheat Nursery, 2016-2017 (Continued)

1. Yields calculated as 60 pounds per bushel.
2. Days from January 1.
3. Rating: 0 = resistant to 9 = very susceptible.
4. C.V. = 14%.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.05).

| | |
|---|---|
| Planted: | November 1, 2016. |
| Harvested: | June 3, 2017. |
| Seeding Rate: | 22 seeds per foot in 7" rows. |
| Soil Type: | Cecil sandy loam. |
| Fertilization: | Preplant: 15 lb N/acre. Topdress: 80 lb N/acre. |

Test conducted by M. Mergoum, J. Johnson, S. Sutton, B. Lopez, and J. Youmans.

# Triticale and Rye

## Tifton, Georgia:
## Triticale and Rye Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average[2] | 3-Year Average[2] | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| **Triticale** | | | | | | | |
| FL 08128 | **101.3** | **94.0** | **93.7** | 58.6 | . | . | . |
| NS 202567 | 90.6 | . | . | 44.7 | 56 | 4 | 03/28 |
| NF201 | 52.9 | 51.7 | . | 51.6 | 58 | 38 | 03/07 |
| SS 1414 Triticale | 24.5 | . | . | 48.1 | 51 | 5 | 03/06 |
| FL 01143 | 4.4 | 42.7 | 47.1 | 48.1 | 60 | 0 | 02/24 |
| Trical 342 | 3.8 | 48.0 | 62.8 | 48.1 | 57 | 0 | 03/03 |
| Average | 46.2 [3] | 59.1 | 67.9 | 49.9 | 56 | 9 | 03/07 |
| LSD at 10% level | 4 | 6 | 8 | 1 | 2 | 3 | . |
| Std. Err. of Entry Mean | 1.7 | 2.5 | 3.4 | 0.2 | 0.7 | 1.1 | . |
| **Rye** | | | | | | | |
| Wrens Abruzzi | **47.7** | **39.9** | **35.2** | 55.6 | 72 | 61 | 03/05 |
| FL 104 | **41.9** | **48.4** | . | 55.0 | 73 | 26 | 02/25 |
| FL 2X 406 | **40.5** | **42.0** | **38.7** | 54.6 | 74 | 21 | 02/28 |
| FL 4X 404 | 35.6 | 32.3 | . | 51.3 | 74 | 20 | 03/07 |
| Maton | 31.9 | 33.8 | 29.3 | 52.6 | 67 | 85 | 03/24 |
| Oklon | 28.8 | 24.1 | 19.8 | 49.3 | 65 | 65 | 03/28 |
| Elbon | 21.9 | 20.6 | 19.4 | 51.8 | 64 | 93 | 03/28 |
| Florida 401 | 20.0 | 32.0 | **31.7** | 56.0 | 75 | 23 | 02/23 |
| Average | 33.5 [4] | 34.1 | 29.0 | 53.3 | 70 | 49 | 03/10 |
| LSD at 10% level | 12 | 10 | 7 | 1 | 2 | 21 | . |
| Std. Err. of Entry Mean | 4.8 | 4.3 | 3.1 | 0.4 | 0.8 | 8.6 | . |

1. Triticale: Yields calculated as 48 pounds per bushel at 13.0% moisture.
   Rye: Yields calculated as 56 pounds per bushel at 13.0% moisture.
2. Triticale: Cumulative data for this table derived from 2017, 2016, and 2015 data sets.
   Rye: Cumulative data for this table derived from 2017, 2016, and 2014 data sets. No data recorded for rye grain harvest in 2015.
3. C.V. = 7.5%, and df for EMS = 15.
4. C.V. = 28.3%, and df for EMS = 21.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 17, 2016.
Harvested: May 19, 2017.
Seeding Rate: Triticale: 22 seeds per foot in 7" rows.
Rye: 18 seeds per foot in 7" rows.
Soil Type: Dothan loamy sand.
Soil Test: P = Medium, K = Medium, and pH = 6.7.
Fertilization: Preplant: 40 lb N, 100 lb $P_2O_5$, and 80 lb $K_2O$/acre.
Topdress: 50 lb N/acre.
Management: Disked, moldboard plowed, and rototilled; Harmony Extra used for weed control.
Previous Crop: Peanuts.

Test conducted by R. Brooke and D. Dunn.

# Plains, Georgia:
# Triticale Grain Performance 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| NS 202567 | **74.6** | **.** | . | 44.3 | 49 | 50 | 04/05 |
| NF201 | 63.6 | **70.9** | **63.4** | 49.6 | 48 | 68 | 03/18 |
| SS 1414 Triticale | 50.4 | **.** | . | 46.4 | 41 | 24 | 03/18 |
| Trical 342 | 6.8 | **63.3** | **61.8** | 46.4 | 51 | 8 | 03/14 |
| FL 01143 | 6.7 | **43.9** | **47.1** | 46.4 | 52 | 8 | 03/07 |
| Average | 40.4 [2] | 59.4 | 57.4 | 46.6 | 48 | 32 | 03/18 |
| LSD at 10% level | 8 | NS[3] | NS | 4 | 1 | 12 | . |
| Std. Err. of Entry Mean | 3.2 | 2 | 1.5 | 1.6 | 1 | 4.9 | . |

1. Yields calculated as 48 pounds per bushel at 13.0% moisture.
2. C.V. = 12.8%, and df for EMS = 15.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: December 16, 2016.
Harvested: June 9, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = Very High, and pH = 5.9.
Fertilization: Preplant: 28 lb N, 80 lb $P_2O_5$, and 80 lb $K_2O$/acre.
Topdress: 85 lb N/acre.
Management: Disked, chisel plowed, field conditioned, and rototilled; 1,000 lb/acre lime.
Previous Crop: Peanuts.

Test conducted by D. Dunn, D. Pearce, W. Jones, and R. Brooke.

# Midville, Georgia:
# Triticale Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging |
|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % |
| FL 08128 | **61.2** | **80.6** | **72.9** | 44.8 | 28 | 15 |
| SS 1414 Triticale | 41.5 | . | . | 44.2 | 39 | 34 |
| NS 202567 | 40.5 | . | . | 39.3 | 49 | 30 |
| NF201 | 39.1 | **47.7** | **42.8** | 43.8 | 47 | 48 |
| Trical 342 | 23.4 | **63.2** | **61.8** | 42.4 | 42 | 29 |
| FL 01143 | 10.9 | **50.2** | **48.7** | 42.4 | 42 | 33 |
| Average | 36.1 [2] | 60.4 | 56.5 | 42.8 | 41 | 31 |
| LSD at 10% level | 10 | NS[3] | NS | 1 | . | . |
| Std. Err. of Entry Mean | 3.8 | 5.7 | 4.2 | 0.4 | . | . |

1. Yields calculated as 48 pounds per bushel at 13.0% moisture.
2. C.V. = 21.4%, and df for EMS = 15.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: December 1, 2016.
Harvested: June 2, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Dothan loamy sand.
Soil Test: P = Medium, K = High, and pH = 6.2.
Fertilization: Preplant: 30 lb N, 80 lb $P_2O_5$, and 50 lb $K_2O$/acre.
Topdress: 70 lb N/acre.
Management: Disked, chisel plowed, and rototilled; Harmony Extra and Express used for weed control.
Previous Crop: Soybeans.

Test conducted by D. Dunn, R. Brooke, and M. Cofield.

# Athens, Georgia:
# Triticale and Rye Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | Yield[1] 2-Year Average | Yield[1] 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | bu/acre | | | lb/bu | in | % | mo/day |
| **Triticale** | | | | | | | |
| NS 202567 | **61.5** | . | . | 35.3 | 53 | 30 | 04/05 |
| NF201 | 52.6 | . | . | 33.2 | 53 | 43 | 03/11 |
| SS 1414 Triticale | 40.4 | . | . | 24.4 | 42 | 18 | 03/13 |
| Trical 342 | 37.8 | . | . | 19.0 | 43 | 10 | 03/08 |
| FL 08128 | 36.4 | . | . | 19.7 | 44 | 35 | 03/07 |
| FL 01143 | 27.3 | . | . | 11.1 | 43 | 31 | 02/01 |
| Average | 42.7 [2] | . | . | 23.8 | 46 | 28 | 03/12 |
| LSD at 10% level | 7.0 | . | . | 7.0 | 2 | 9 | . |
| Std. Err. of Entry Mean | 2.8 | . | . | 2.8 | 0.9 | 3.5 | . |
| **Rye** | | | | | | | |
| Maton | **50.3** | . | . | 39.9 | 69 | 77 | 03/25 |
| Oklon | **47.4** | . | . | 34.9 | 69 | 80 | 03/29 |
| Wrens Abruzzi | **43.7** | . | . | 33.6 | 70 | 42 | 03/07 |
| Elbon | 41.5 | . | . | 31.9 | 68 | 83 | 03/28 |
| FL 2X 406 | 40.8 | . | . | 30.8 | 68 | 15 | 02/22 |
| FL 104 | 39.1 | . | . | 29.4 | 67 | 17 | 02/22 |
| Florida 401 | 30.5 | . | . | 18.6 | 69 | 25 | 02/17 |
| FL 4X 404 | 22.8 | . | . | 9.8 | 69 | 33 | 03/11 |
| Average | 39.5 [3] | . | . | 28.6 | 68 | 46 | 03/09 |
| LSD at 10% level | 8.0 | . | . | 8.0 | NS[4] | 19 | . |
| Std. Err. of Entry Mean | 3.4 | . | . | 3.1 | 0.8 | 6.7 | . |

1. Triticale: Yields calculated as 48 pounds per bushel at 13.0% moisture.
   Rye: Yields calculated as 56 pounds per bushel at 13.0% moisture.
2. C.V. = 13.0%, and df for EMS = 15.
3. C.V. = 17.1%, and df for EMS = 21.
4. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 27, 2016.
Harvested: June 13, 2017.
Seeding Rate: Triticale: 22 seeds per foot in 7" rows.
Rye: 18 seeds per foot in 7" rows.
Soil Type: Augusta A/Chewacla silt loam.
Soil Test: P = Medium, K = Low, and pH = 6.1.
Fertilization: Preplant: 20 lb N, 120 lb $P_2O_5$, and 240 lb $K_2O$/acre.
Topdress: 80 lb N/acre.
Management: Chisel plowed, disked, and rototilled; Harmony Extra and Powerflex used for weed control; Karate and Sivanto used for insect control.
Previous Crop: Sorghum.

Test conducted by H. Jordan and G. Ware.

# Summary of Triticale Yields:
# Georgia, 2016-2017 with Two- and Three-Year Averages

| | Yield[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | South[2] | | | North[3] | | | Statewide | | |
| Brand-Variety | 2017 | 2-Year Average | 3-Year Average | 2017 | 2-Year Average[4] | 3-Year Average | 2017 | 2-Year Average | 3-Year Average |
| | bu/acre | | | | | | | | |
| FL 01143 | 7.3 | **45.6** | 42.9 | 27.3 | **60.0** | . | 12.3 | **49.2** | . |
| FL 08128 | . | . | . | 36.4 | **75.7** | . | . | . | . |
| NF201 | 51.8 | **56.7** | . | 52.6 | **74.0** | . | 52.0 | **61.1** | . |
| NS 202567 | **68.6** | . | . | **61.5** | . | . | **66.8** | . | . |
| SS 1414 Triticale | 38.8 | . | . | 40.4 | **79.9** | . | 39.2 | . | . |
| Trical 342 | 11.3 | **58.1** | **55.9** | 37.8 | **77.6** | . | 18.0 | **63.0** | . |
| Average | 35.6 | 53.5 | 49.4 | 42.7 | 73.4 | . | 37.7 | 57.8 | . |
| LSD at 10% Level | 3.7 | NS[5] | 5.4 | 6.9 | NS | . | 3.2 | NS | . |
| Standard Error of Entry Mean | 1.6 | 1.8 | 2.1 | 2.8 | 3.6 | . | 1.3 | 1.6 | . |

1. Yields calculated at 48 pounds per bushel at 13.0% moisture.
2. Tifton, Plains, and Midville.
3. Athens.
4. 2-year average data comprised of 2017 Athens and 2016 Griffin data. Griffin provided Piedmont region data in previous years.
5. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

# Summary of Rye Yields:
# Georgia, 2016-2017 with Two- and Three-Year Averages

| | Yield[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | South[2] | | | North[3] | | | Statewide | | |
| Brand-Variety | 2017 | 2-Year Average | 3-Year Average[4] | 2017 | 2-Year Average[5] | 3-Year Average[6] | 2017 | 2-Year Average | 3-Year Average |
| | bu/acre | | | | | | | | |
| Elbon | 21.9 | 20.6 | 19.4 | 41.5 | **73.6** | 66.7 | 31.7 | 28.7 | 32.0 |
| FL 104 | **41.9** | **48.4** | . | 39.1 | **79.1** | . | **40.5** | **43.9** | . |
| FL 2X 406 | **40.5** | **42.0** | **38.7** | 40.8 | **81.8** | **68.2** | **40.7** | **41.4** | **42.1** |
| FL 4X 404 | 35.6 | 32.3 | . | 22.8 | **.** | . | 29.2 | . | . |
| Florida 401 | 20.0 | 32.0 | **31.7** | 30.5 | **62.8** | 54.5 | 25.3 | 31.7 | 34.0 |
| Maton | 31.9 | 33.8 | 29.3 | **50.3** | **88.7** | **73.0** | **41.1** | **39.1** | **39.0** |
| Oklon | 28.8 | 24.1 | 19.8 | **47.4** | **74.9** | 65.8 | 38.1 | 30.8 | 31.8 |
| Wrens Abruzzi | **47.7** | **39.9** | **35.2** | **43.7** | **74.6** | 62.3 | **45.7** | **38.6** | **38.4** |
| Average | 33.5 | 34.1 | 29.0 | 39.5 | 76.5 | 65.1 | 36.5 | 36.3 | 36.2 |
| LSD at 10% Level | 12 | 10 | 7 | 8 | NS[7] | 6 | 7 | 7 | 5 |
| Standard Error of Entry Mean | 4.8 | 4.3 | 3.1 | 3.4 | 3.4 | 2.6 | 4.1 | 3.9 | 2.8 |

1. Yields calculated at 56 pounds per bushel at 13.0% moisture.
2. Tifton.
3. Athens.
4. 3-year average data comprised of 2017, 2016, and 2014 Tifton data.
5. 2-year average data comprised of 2017 Athens and 2015 Griffin data. Griffin provided in Piedmont region data in previous years.
6. 3-year average data comprised of 2017 Athens. 2015 and 2014 Griffin data.
7. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

# Oat

## Tifton, Georgia:
## Oat Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | Yield[1] 2-Year Average[2] | Yield[1] 3-Year Average[2] | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | bu/acre | | | lb/bu | in | % | mo/day |
| Horizon 270 | **156.9** | **119.6** | **109.5** | 34.8 | 47 | 6 | 03/25 |
| SCLA 0100214 | **154.3** | . | . | 33.2 | 42 | 0 | 04/04 |
| Horizon 720 | **153.4** | . | . | 33.4 | 52 | 6 | 04/04 |
| LA07007SBSBSB-18 | **150.0** | . | . | 34.9 | 43 | 0 | 03/23 |
| NC12-3578 | **149.3** | 108.1 | . | 33.4 | 51 | 11 | 04/03 |
| TX14OCS5089 | **146.1** | . | . | 33.3 | 50 | 8 | 03/28 |
| Graham | 141.9 | **112.3** | . | 32.8 | 39 | 0 | 04/08 |
| TX14OCS5086 | 141.7 | . | . | 33.4 | 52 | 5 | 04/02 |
| Horizon 306 | 140.3 | 106.2 | 83.7 | 36.5 | 46 | 3 | 04/04 |
| TAMO 411 | 137.2 | . | . | 35.2 | 48 | 3 | 04/01 |
| LA08084SBSBS-15 | 130.0 | . | . | 37.3 | 52 | 61 | 03/26 |
| SCOP 86-13 | 123.9 | . | . | 30.2 | 53 | 46 | 04/08 |
| NC12-3447 | 120.4 | . | . | 30.3 | 50 | 80 | 03/30 |
| SCOP 85-8 | 119.2 | . | . | 33.5 | 52 | 4 | 04/07 |
| TX14OCS5077 | 119.1 | . | . | 31.8 | 51 | 3 | 03/27 |
| Okay | 116.4 | 77.0 | 61.2 | 31.2 | 55 | 86 | 03/31 |
| SS 76-50 | 109.6 | 94.7 | 74.4 | 29.4 | 47 | 18 | 04/03 |
| Average | 135.8 [3] | 103.0 | 82.2 | 33.2 | 49 | 20 | 04/01 |
| LSD at 10% level | 13 | 9 | 10 | 2 | 2 | 12 | . |
| Std. Err. of Entry Mean | 5.4 | 4.0 | 4.2 | 1.0 | 1.0 | 5.1 | . |

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.
2. Cumulative data for this table derived from 2017, 2015, and 2014 data sets. No data recorded for oat grain harvest in 2016.
3. C.V. = 8.0%, and df for EMS = 48.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 17, 2016.
Harvested: May 19, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Dothan loam sand.
Soil Test: P = Medium, K = Medium, and pH = 6.7.
Fertilization: Preplant: 40 lb N, 100 lb $P_2O_5$, and 80 lb $K_2O$/acre.
Topdress: 50 lb N/acre.
Management: Disked, moldboard plowed, and rototilled; Harmony Extra used for weed control.
Previous Crop: Peanuts.

Test conducted by R. Brooke and D. Dunn.

# Plains, Georgia:
# Oat Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| LA07007SBSBSB-18 | **68.3** | . | . | 31.9 | 38 | 36 | 03/31 |
| Horizon 270 | **59.0** | **84.1** | **87.3** | 31.7 | 40 | 53 | 04/03 |
| TX14OCS5089 | 50.1 | . | . | 25.9 | 41 | 49 | 03/31 |
| Graham | 49.7 | 71.9 | **77.8** | 25.9 | 41 | 44 | 04/03 |
| SCOP 85-8 | 45.2 | 71.8 | . | 18.8 | 47 | 60 | 04/09 |
| SCLA 0100214 | 44.6 | 67.9 | . | 22.5 | 41 | 41 | 04/05 |
| TX14OCS5086 | 42.1 | . | . | 19.9 | 45 | 29 | 04/02 |
| TX14OCS5077 | 41.8 | . | . | 21.7 | 45 | 64 | 04/01 |
| LA08084SBSBS-15 | 39.5 | . | . | 17.2 | 48 | 83 | 03/31 |
| Horizon 720 | 34.2 | . | . | 12.5 | 47 | 63 | 04/06 |
| SCOP 86-13 | 33.1 | . | . | 16.1 | 46 | 92 | 04/13 |
| NC12-3578 | 31.8 | 54.7 | 63.7 | 18.1 | 46 | 48 | 04/04 |
| TAMO 411 | 30.3 | 69.1 | . | 13.3 | 41 | 66 | 04/05 |
| NC12-3447 | 27.4 | 56.3 | . | 12.6 | 45 | 78 | 04/05 |
| SS 76-50 | 26.6 | 46.6 | 55.1 | 11.5 | 42 | 56 | 04/06 |
| Okay | 24.8 | 50.0 | 59.1 | 11.2 | 45 | 97 | 04/09 |
| Horizon 306 | 19.5 | 57.3 | 61.6 | 8.3 | 45 | 51 | 04/05 |
| Average | 39.3 [2] | 62.9 | 67.4 | 18.8 | 44 | 59 | 04/04 |
| LSD at 10% level | 11.0 | 11.0 | 10.0 | 7.0 | 2 | 21 | . |
| Std. Err. of Entry Mean | 4.6 | 4.6 | 4.0 | 2.8 | 0.7 | 8.8 | . |

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.
2. C.V. = 23.3%, and df for EMS = 48.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 21, 2016.
Harvested: June 9, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = Very High, and pH = 5.9.
Fertilization: Preplant: 28 lb N, 80 lb $P_2O_5$, and 80 lb $K_2O$/acre.
Topdress: 85 lb N/acre.
Management: Disked, chisel plowed, field conditioned, and rototilled; 1,000 lb/acre lime.
Previous Crop: Peanuts.

Test conducted by D. Dunn, D. Pearce, W. Jones, and R. Brooke.

# Midville, Georgia:
# Oat Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | Yield[1] 2-Year Average | Yield[1] 3-Year Average | Test Weight | Height | Lodging |
|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % |
| Graham | **40.9** | **46.2** | **67.7** | 25.9 | 32 | 28 |
| TAMO 411 | **36.1** | **52.1** | . | 19.5 | 30 | 46 |
| LA07007SBSBSB-18 | **32.6** | . | . | 25.0 | 27 | 18 |
| SCLA 0100214 | 30.6 | 30.9 | . | 22.6 | 31 | 34 |
| NC12-3578 | 29.2 | **48.2** | **64.2** | 22.5 | 31 | 55 |
| Horizon 306 | 29.1 | **46.2** | 57.6 | 24.4 | 33 | 63 |
| TX14OCS5086 | 27.0 | . | . | 22.6 | 33 | 48 |
| Horizon 270 | 27.0 | **53.3** | **65.7** | 25.1 | 30 | 33 |
| SS 76-50 | 25.3 | 36.1 | 54.1 | 22.6 | 31 | 31 |
| LA08084SBSBS-15 | 22.9 | . | . | 22.6 | 36 | 61 |
| SCOP 85-8 | 22.8 | 38.1 | . | 19.9 | 31 | 35 |
| TX14OCS5089 | 22.1 | . | . | 22.6 | 32 | 43 |
| SCOP 86-13 | 21.7 | . | . | 22.6 | 35 | 66 |
| Okay | 20.3 | 24.6 | 35.8 | 22.6 | 32 | 81 |
| TX14OCS5077 | 20.0 | . | . | 22.1 | 34 | 23 |
| Horizon 720 | 16.8 | . | . | . | 39 | 51 |
| NC12-3447 | 14.5 | 22.4 | . | 17.9 | 32 | 95 |
| Average | 25.8 [2] | 39.8 | 57.5 | 22.5 | 32 | 48 |
| LSD at 10% level | 9.0 | 9.0 | 8.0 | 1.0 | 3 | 19 |
| Std. Err. of Entry Mean | 3.8 | 3.8 | 3.2 | 0.3 | 1.2 | 7.8 |

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.
2. C.V. = 29.8%, and df for EMS = 48.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: December 1, 2016.
Harvested: June 2, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Dothan loamy sand.
Soil Test: P = Medium, K = High, and pH = 6.2.
Fertilization: Preplant: 30 lb N, 80 lb $P_2O_5$, and 50 lb $K_2O$/acre.
Topdress: 70 lb N/acre.
Management: Disked, chisel plowed, and rototilled; Harmony Extra and Express used for weed control.
Previous Crop: Soybeans.

Test conducted by D. Dunn, R. Brooke, and M. Cofield.

# Athens, Georgia:
# Oat Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | Yield[1] 2-Year Average | Yield[1] 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| SCOP 85-8 | **65.4** | . | . | 24.9 | 42 | 74 | 04/21 |
| SCLA 0100214 | **58.9** | . | . | 23.0 | 38 | 23 | 04/11 |
| NC12-3447 | **56.7** | . | . | 20.2 | 40 | 81 | 04/11 |
| Horizon 306 | **56.6** | . | . | 24.5 | 40 | 50 | 04/17 |
| Graham | **55.8** | . | . | 22.2 | 39 | 33 | 04/08 |
| SS 76-50 | **53.6** | . | . | 22.8 | 40 | 49 | 04/13 |
| TAMO 411 | **52.0** | . | . | 22.7 | 41 | 43 | 04/17 |
| LA07007SBSBSB-18 | 47.8 | . | . | 16.4 | 32 | 26 | 04/11 |
| Horizon 270 | 46.7 | . | . | 19.9 | 38 | 23 | 04/15 |
| NC12-3578 | 45.7 | . | . | 21.1 | 40 | 31 | 04/11 |
| SCOP 86-13 | 35.4 | . | . | 13.8 | 47 | 73 | 04/13 |
| TX14OCS5086 | 26.5 | . | . | 8.7 | 43 | 70 | 04/11 |
| Horizon 720 | 25.7 | . | . | 8.8 | 46 | 54 | 04/17 |
| TX14OCS5089 | 25.0 | . | . | 7.8 | 41 | 84 | 04/16 |
| TX14OCS5077 | 20.6 | . | . | 5.6 | 42 | 65 | 04/11 |
| LA08084SBSBS-15 | 19.9 | . | . | 4.4 | 46 | 46 | 04/11 |
| Okay | 16.6 | . | . | 4.7 | 44 | 73 | 04/10 |
| Average | 41.7 [2] | . | . | 16.0 | 41 | 53 | 04/13 |
| LSD at 10% level | 14.0 | . | . | 5.0 | 3 | 31 | . |
| Std. Err. of Entry Mean | 5.7 | . | . | 2.1 | 1.3 | 13.1 | . |

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.
2. C.V. = 27.6%, and df for EMS = 48.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 27, 2016.
Harvested: June 14, 2017.
Seeding Rate: 22 seeds per foot in 7" rows.
Soil Type: Augusta A/Chewacla silt loam.
Soil Test: P = Medium, K = Low, and pH = 6.1.
Fertilization: Preplant: 20 lb N, 120 lb $P_2O_5$, and 240 lb $K_2O$/acre.
Topdress: 60 lb N/acre.
Management: Chisel plowed, disked, and rototilled; Harmony Extra used for weed control; Karate and Sivanto used for insect control.
Previous Crop: Sorghum.

Test conducted by H. Jordan and G. Ware.

# Calhoun, Georgia:
# Oat Grain Performance, 2016-2017

| Brand-Variety | Yield | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |

An oat grain trial was planned for this location. However, due to extreme drought conditions from October through December, the trial could not be planted. Therefore, there are no results to publish.

# Summary of Oat Yields:
# Georgia, 2016-2017 with Two- and Three-Year Averages

| | Yield[1] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | South[2] | | | North[3] | | | Statewide | | |
| Brand-Variety | 2017 | 2-Year Average[4] | 3-Year Average[5] | 2017 | 2-Year Average[6] | 3-Year Average[7] | 2017 | 2-Year Average | 3-Year Average |
| | bu/acre | | | | | | | | |
| Graham | **77.5** | 76.8 | . | **55.8** | 71.1 | 84.0 | **72.1** | **75.4** | . |
| Horizon 270 | **80.9** | **85.7** | **87.5** | 46.7 | 53.0 | 83.6 | **72.4** | **77.5** | **86.5** |
| Horizon 306 | 63.0 | 69.9 | 67.6 | **56.6** | 64.0 | 81.7 | 61.4 | 68.4 | 71.1 |
| Horizon 720 | 68.1 | . | . | 25.7 | . | . | 57.5 | . | . |
| LA07007SBSBSB-18 | **83.6** | . | . | 47.8 | . | . | **74.6** | . | . |
| LA08084SBSBS-15 | 64.1 | . | . | 19.9 | . | . | 53.1 | . | . |
| NC12-3447 | 54.1 | . | . | **56.7** | 77.2 | . | 54.7 | . | . |
| NC12-3578 | 70.1 | 70.3 | . | 45.7 | 77.7 | **98.6** | 64.0 | 72.2 | . |
| Okay | 53.8 | 50.5 | 52.0 | 16.6 | 52.7 | 71 | 44.5 | 51.1 | 56.8 |
| SCLA 0100214 | 76.5 | . | . | **58.9** | 78.0 | . | **72.1** | . | . |
| SCOP 85-8 | 62.4 | . | . | **65.4** | 56.0 | . | 63.1 | . | . |
| SCOP 86-13 | 59.6 | . | . | 35.4 | . | . | 53.5 | . | . |
| SS 76-50 | 53.8 | 59.1 | 61.2 | **53.6** | **87.8** | 87.2 | 53.7 | 66.3 | 67.7 |
| TAMO 411 | 67.9 | . | . | **52.0** | 61.5 | . | 63.9 | . | . |
| TX14OCS5077 | 60.3 | . | . | 20.6 | . | . | 50.3 | . | . |
| TX14OCS5086 | 70.2 | . | . | 26.5 | . | . | 59.3 | . | . |
| TX14OCS5089 | 72.7 | . | . | 25 | . | . | 60.8 | . | . |
| Average | 67 | 68.7 | 67.1 | 41.7 | 67.9 | 84.4 | 60.6 | 68.5 | 70.5 |
| LSD at 10% Level | 6.3 | 5.8 | 5.4 | 13.6 | 9.4 | 10.8 | 5.8 | 4.9 | 4.8 |
| Standard Error of Entry Mean | 2.7 | 2.0 | 2.3 | 5.7 | 4.0 | 4.6 | 2.5 | 2.1 | 2.1 |

1. Yields calculated at 32 pounds per bushel at 12.5% moisture.
2. Tifton, Plains, and Midville.
3. Athens and Calhoun. No Calhoun data available for 2017 due to drought conditions.
4. 2-year average data comprised of 2017 Tifton, Plains, Midville, and 2016 Plains, Midville data.
5. 3-year average data comprised of 2017 Tifton, Plains, Midville; 2016 Plains, Midville; and 2015 Tifton, Plains, Midville data.
6. 2-year average data comprised of 2017 Athens, 2016 Griffin, and 2016 Calhoun data.
7. 3-year average data comprised of 2017 Athens, 2016 and 2015 Griffin and Calhoun data.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

# Barley

## Plains, Georgia:
## Barley Grain Performance, 2016-2017

| Brand-Variety | Yield[1] | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | Yield[1] | | | | | | |
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |
| Secretariat | **105.9** | **119.1** | **90.1** | 45.8 | 27 | 91 | 03/29 |
| Thoroughbred | 79.0 | 80.6 | 63.6 | 46.0 | 31 | 39 | 04/03 |
| Flavia | 73.3 | . | . | 42.4 | 28 | 25 | 04/08 |
| VA11B-141 | 70.7 | . | . | 43.9 | 30 | 84 | 04/04 |
| Violetta | 59.7 | . | . | 43.6 | 29 | 50 | 04/14 |
| Amaze10 | 55.9 | 70.0 | 54.0 | 55.9 | 29 | 71 | 04/06 |
| Average | 74.1 [2] | 89.9 | 69.2 | 46.3 | 29 | 60 | 04/05 |
| LSD at 10% level | 12 | 15 | 10 | 1 | 1 | 16 | . |
| Std. Err. of Entry Mean | 4.8 | 5.9 | 4.0 | 0.5 | 0.6 | 6.3 | . |

1. Yields calculated as 48 pounds per bushel at 12.0% moisture.
2. C.V. = 5.2%, and df for EMS = 45.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 21, 2016.
Harvested: June 9, 2017.
Seeding Rate: 15 seeds per foot in 7" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = Very High, and pH = 5.9.
Fertilization: Preplant: 28 lb N, 80 lb $P_2O_5$, and 80 lb $K_2O$/acre.
Topdress: 85 lb N/acre.
Management: Disked, chisel plowed, field conditioned, and rototilled; 1,000 lb/acre lime.
Previous Crop: Peanuts.

Test conducted by D. Dunn, D. Pearce, W. Jones, and R. Brooke.

# Calhoun, Georgia:
# Barley Grain Performance, 2016-2017

| Brand-Variety | Yield | 2-Year Average | 3-Year Average | Test Weight | Height | Lodging | Head Date |
|---|---|---|---|---|---|---|---|
| | ---------- bu/acre ---------- | | | lb/bu | in | % | mo/day |

A barley grain trial was planned for this location. However, due to extreme drought conditions from October through December, the trial could not be planted. Therefore, there are no results to publish.

# Forage Test Results

## Wheat Forage

### Tifton, Georgia:
### Wheat Forage Performance, 2016-2017

| | Dry Matter Yield | | | | |
|---|---|---|---|---|---|
| | Harvest Date | | | Season Totals | |
| Brand-Variety | 1/30/2017 | 2/21/2017 | 3/22/2017 | 2017 | 2-Yr Avg |
| | lb/acre | | | | |
| AGS 2024 | **1296** | **1557** | 2570 | **5423** | **6158** |
| W010025R1 | 948 | **1459** | 2494 | **4901** | . |
| W010025T1 | **1067** | 1209 | 2309 | 4585 | . |
| GA 07353-14E19 | **1013** | **1470** | 2048 | 4531 | . |
| W010025Y1 | 850 | 1252 | 2418 | 4520 | . |
| SH 5550 | 599 | 1122 | **2788** | 4509 | **5189** |
| AGS 2038 | 566 | 1187 | 2712 | 4465 | **5129** |
| AGS 2033 | **1067** | 795 | 2527 | 4389 | **5777** |
| GAJT 141-14E45 | 447 | 795 | **3115** | 4356 | . |
| GA 071012-14E6 | **1198** | **1753** | 1394 | 4345 | . |
| SCLA 99049D-E1-J1 | 795 | 1154 | 2396 | 4345 | . |
| GA 051207-14E53 | 795 | 860 | 2668 | 4323 | . |
| GA 07192-14E9 | 697 | 850 | 2733 | 4280 | . |
| Dyna-Gro Savoy | 850 | **1546** | 1819 | 4215 | **5146** |
| Pioneer 26R94 | 457 | 947 | 2636 | 4040 | **5026** |
| SS 8415 | 959 | 882 | 2026 | 3866 | **5369** |
| Graze-ALL | 610 | 817 | 2352 | 3779 | **5434** |
| AGS 2027 | 665 | 904 | 2200 | 3768 | . |
| SRW 9410 | 741 | 806 | 2134 | 3681 | **5048** |
| Pioneer 26R41 | 697 | 730 | 2069 | 3497 | **4993** |
| GA-Gore | 447 | 871 | 1960 | 3278 | . |
| Pioneer 26R10 | 599 | 773 | 1775 | 3148 | **4819** |
| Dyna-Gro 9171 | 556 | 610 | 1492 | 2657 | **4269** |
| Average | 779 | 1059 | 2288 | 4126 [1] | 5196 |
| LSD at 10% Level | 307 | 337 | 337 | 703 | NS[2] |
| Std. Err. of Entry Mean | 130 | 143 | 143 | 298 | 209 |

1. C.V. = 14.4%, and df for EMS = 66.
2. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 9, 2016,
Seeding Rate: 27 seed/foot in 7" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = High, K = High, and pH = 6.0.
Fertilization: Preplant: 50 lb N, 50 lb $P_2O_5$, and 50 lb $K_2O$/acre.
Topdress: 50 lb N/acre after 1st and 2nd harvests.
Management: Disked, moldboard plowed, and rototilled.
Previous Crop: Grain sorghum.

Test conducted by R. Brooke and D. Dunn.

# Plains, Georgia:
# Wheat Forage Performance, 2016-2017

| | Dry Matter Yield | | | | |
|---|---|---|---|---|---|
| | Harvest Date | | | Season Totals | |
| Brand-Variety | 2/2/2017 | 3/20/2017 | 4/18/2017 | 2017 | 2-Yr Avg |
| | lb/acre | | | | |
| Pioneer 26R10 | 2200 | 3820 | **3801** | **9820** | **7827** |
| Pioneer 26R41 | 2342 | 3707 | 3180 | 9228 | **7530** |
| SRW 9410 | 2069 | 3717 | 2483 | 8269 | 6626 |
| SH 5550 | 2309 | **5471** | 490 | 8269 | 6433 |
| GA 07353-14E19 | **2581** | **5056** | 512 | 8148 | . |
| AGS 2033 | **2647** | 4891 | 523 | 8060 | 6871 |
| Pioneer 26R94 | 2254 | **5203** | 545 | 8002 | 6553 |
| Dyna-Gro Savoy | 2276 | 5023 | 686 | 7985 | 6233 |
| GA 071012-14E6 | **2657** | 4861 | 457 | 7976 | . |
| AGS 2027 | 2363 | 4645 | 958 | 7966 | . |
| GA 051207-14E53 | **2516** | 4566 | 860 | 7942 | . |
| GAJT 141-14E45 | 2015 | 4986 | 926 | 7927 | . |
| AGS 2024 | **2581** | 4897 | 414 | 7892 | 6356 |
| SS 8415 | 2189 | 3572 | 2058 | 7819 | 6434 |
| GA 07192-14E9 | **2429** | 4550 | 784 | 7762 | . |
| W010025R1 | **2461** | 4690 | 599 | 7750 | . |
| SCLA 99049D-E1-J1 | 2254 | 4690 | 588 | 7532 | . |
| GrazeAll | 2276 | 4367 | 762 | 7406 | 6254 |
| Dyna-Gro 9171 | 2058 | 2813 | 2494 | 7365 | 6429 |
| AGS 2038 | 2243 | 4684 | 392 | 7319 | 5833 |
| W010025T1 | 2374 | 4510 | 425 | 7309 | . |
| W010025Y1 | 2363 | 4498 | 370 | 7232 | . |
| GA-Gore | 1938 | 3998 | 850 | 6786 | . |
| Average | 2321 | 4488 | 1094 | 7903 [1] | 6615 |
| LSD at 10% Level | 275 | 436 | 290 | 578 | 384 |
| Std. Err. of Entry Mean | 117 | 185 | 123 | 245 | 163 |

1. C.V. = 6.2%, and df for EMS = 66.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 8, 2016.
Seeding Rate: 27 seed/foot in 7" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = Very High, and pH = 5.9.
Fertilization: Preplant: 28 lb N, 80 lb $P_2O_5$, 80 lb $K_2O$, and 1,000 lb dolomitic lime/acre.
Topdress: 50 lb N/acre after 1st and 2nd harvests.
Management: Disked, chisel plowed, field conditioned, and rototilled.
Previous Crop: Peanuts.

Test conducted by R. Brooke and D. Dunn.

# Athens, Georgia:
# Wheat Forage Performance, 2016-2017

| | Dry Matter Yield | | | |
|---|---|---|---|---|
| | Harvest Date | | | Season Totals |
| Brand-Variety | 2/1/2017 | 3/6/2017 | 4/10/2017 | 2017 |
| | lb/acre | | | |
| SRW 9410 | 1339 | **3374** | 4016 | **8728** |
| Dyna-Gro 9171 | 840 | 2785 | **5080** | **8704** |
| Pioneer 26R41 | 1508 | 3204 | 3430 | **8142** |
| Dyna-Gro Savoy | 2109 | **3981** | 1839 | 7929 |
| Pioneer 26R10 | 722 | 2365 | **4757** | 7844 |
| GrazeAll | 1969 | **3807** | 2050 | 7826 |
| SCLA 99049D-E1-J1 | **2321** | 3005 | 1998 | 7324 |
| GA 051207-14E53 | **2211** | **3355** | 1629 | 7195 |
| Pioneer 26R94 | 1898 | 3231 | 2004 | 7133 |
| AGS 2027 | 1697 | 3225 | 2164 | 7086 |
| AGS 2033 | **2585** | 2856 | 1627 | 7068 |
| AGS 2024 | **2192** | 2829 | 2031 | 7051 |
| W010025R1 | **2514** | 2863 | 1436 | 6813 |
| SS 8415 | 1531 | 2868 | 2322 | 6721 |
| GA 071012-14E6 | 2119 | 2215 | 2288 | 6622 |
| W010025T1 | **2391** | 2776 | 1425 | 6592 |
| GA 07353-14E19 | 1954 | 2704 | 1803 | 6461 |
| SH 5550 | 2005 | 2617 | 1825 | 6446 |
| W010025Y1 | 2109 | 2625 | 1706 | 6440 |
| GAJT 141-14E45 | 1494 | 3049 | 1646 | 6190 |
| Average | 1875 | 2987 | 2354 | 7216 [1] |
| LSD at 10% Level | 403 | 668 | 437 | 670 |
| Std. Err. of Entry Mean | 170 | 283 | 185 | 283 |

1. C.V. = 7.8%, and df for EMS = 57.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 11, 2016.
Seeding Rate: 27 seed/foot in 7" rows.
Soil Type: Augusta A/Chewacla silt loam.
Soil Test: P = Medium, K = Low, and pH = 6.1.
Fertilization: Preplant: 50 lb N, 165 lb $P_2O_5$, and 330 lb $K_2O$/acre.
Topdress: 50 lb N/acre after 1st and 2nd harvests.
Management: Chisel plowed, disked, and rototilled; Harmony Extra and Powerflex used for weed control; Karate and Sivanto used for insect control.
Previous Crop: Sorghum.

Test conducted by H. Jordan and G. Ware.

# Marianna, Florida:
# Wheat Forage Performance, 2016-2017

| | Dry Matter Yield | | | | | |
|---|---|---|---|---|---|---|
| | Harvest Date | | | | Season Totals | |
| Brand-Variety | 1/13/2017 | 2/10/2017 | 3/16/2017 | 4/14/2017 | 2017 | 2-Yr Avg[1] |
| | ---------- lb/acre ---------- | | | | | |
| Pioneer 26R41 | **2724** | 1929 | 2900 | **2422** | **9974** | . |
| GrazeAll | **2465** | 1695 | 2133 | **2625** | 8918 | . |
| SRW 9410 | **2506** | 1646 | 2242 | **2523** | 8917 | **6611** |
| AGS 2033 | **2877** | 1608 | 2817 | 1576 | 8878 | **6987** |
| SS 8415 | 2422 | 1685 | 2041 | **2526** | 8672 | . |
| GA 051207-14E53 | **2888** | 1834 | 2688 | 1185 | 8595 | . |
| Pioneer 26R10 | **2442** | 1767 | 2263 | 2101 | 8573 | . |
| Pioneer 26R94 | **2654** | 1911 | **3595** | 383 | 8543 | **6288** |
| AGS 2024 | **2866** | 2026 | 2876 | 665 | 8432 | . |
| W010025R1 | **2741** | 2150 | 3009 | 398 | 8298 | . |
| Dyna-Gro Savoy | **2599** | **2557** | 2639 | 294 | 8089 | 6016 |
| GAJT 141-14E45 | 2109 | 1622 | **3508** | 737 | 7976 | . |
| AGS 2027 | 2269 | 1525 | 1878 | 2171 | 7843 | 5775 |
| W010025Y1 | **2873** | 1980 | 2687 | 116 | 7656 | . |
| SH 5550 | **2436** | 1676 | **3216** | 294 | 7621 | 5915 |
| W010025T1 | **2660** | 1707 | 2940 | 220 | 7527 | . |
| SCLA 99049D-E1-J1 | 2345 | 1622 | 2763 | 376 | 7106 | 5630 |
| GA 071012-14E6 | **2627** | 2048 | 1987 | 318 | 6980 | . |
| GA 07353-14E19 | 2396 | 1629 | 2631 | 226 | 6881 | . |
| Dyna-Gro 9171 | 1973 | 1308 | 1435 | 787 | 5504 | . |
| Average | 2544 | 1796 | 2612 | 1097 | 8049 [2] | 6174 |
| LSD at 10% Level | 459 | 287 | 467 | 367 | 927 | 700 |
| Std. Err. of Entry Mean | 194.1 | 121.2 | 197.7 | 155.1 | 392.0 | 276.7 |

1. Average of data from 2015 and 2017.
2. C.V. = 9.7%, and df for EMS = 57.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 26, 2016.
Seeding Rate: 27 seed/foot in 7" rows.
Soil Type: Chipola loamy sand.
Soil Test: P = Medium, K = Low, and pH = 5.6.
Fertilization: Preplant: 50 lb N, 20 lb $P_2O_5$, 60 lb $K_2O$, and 15 lb S/acre.
Topdress: 50 lb N/acre after 1st, 2nd, and 3rd harvests.
Management: Disked, moldboard plowed, and rototilled; Harmony Extra used for weed control.
Previous Crop: Corn.

Test conducted by J. Jones.

# Statewide Summary: Wheat Forage Performance, 2016-2017 with Two- and Three-Year Averages

| | Dry Forage Yield | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tifton | | | Plains | | | Athens[1] | | | Statewide | | |
| Brand-Variety | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg |
| | lb/acre | | | | | | | | | | | |
| AGS 2024 | **5423** | **6158** | . | 7892 | 6356 | . | 7051 | . | . | **6789** | . | . |
| AGS 2027 | 3768 | . | . | 7966 | . | . | 7086 | **8219** | . | **6273** | . | . |
| AGS 2033 | 4389 | **5777** | **6876** | 8060 | 6871 | **6708** | 7068 | **7959** | . | **6505** | **6869** | . |
| AGS 2038 | 4465 | 5129 | . | 7319 | 5833 | . | . | . | . | . | . | . |
| Dyna-Gro 9171 | 2657 | 4269 | . | 7365 | 6429 | . | **8704** | **8112** | . | **6242** | **6270** | . |
| Dyna-Gro Savoy | 4215 | 5146 | 6081 | 7985 | 6233 | 6216 | 7929 | **8341** | **8942** | **6710** | **6573** | **7080** |
| GA 051207-14E53 | 4323 | . | . | 7942 | . | . | 7195 | . | . | **6487** | . | . |
| GA 071012-14E6 | 4345 | . | . | 7976 | . | . | 6622 | . | . | **6314** | . | . |
| GA 07192-14E9 | 4280 | . | . | 7762 | . | . | . | . | . | . | . | . |
| GA 07353-14E19 | 4531 | . | . | 8148 | . | . | 6461 | . | . | **6380** | . | . |
| GA-Gore | 3278 | . | . | 6786 | . | . | . | . | . | . | . | . |
| GAJT 141-14E45 | 4356 | . | . | 7927 | . | . | 6190 | . | . | **6157** | . | . |
| GrazeALL | 3779 | 5434 | . | 7406 | 6254 | . | 7826 | . | . | **6337** | . | . |
| Pioneer 26R10 | 3148 | 4819 | . | **9820** | **7827** | . | 7844 | **8081** | . | **6937** | **6909** | . |
| Pioneer 26R41 | 3497 | 4993 | . | 9228 | **7530** | . | **8142** | . | . | **6956** | . | . |
| Pioneer 26R94 | 4040 | 5026 | 6167 | 8002 | 6553 | **6624** | 7133 | 7559 | . | **6391** | **6379** | . |
| SCLA 99049D-E1-J1 | 4345 | . | . | 7532 | . | . | 7324 | 7581 | . | **6400** | . | . |
| SH 5550 | 4509 | 5189 | 6015 | 8269 | 6433 | **6543** | 6446 | 7120 | 7867 | **6408** | **6248** | **6808** |
| SRW 9410 | 3681 | 5048 | **6575** | 8269 | 6626 | 6231 | **8728** | **8164** | . | **6893** | **6612** | . |
| SS 8415 | 3866 | 5369 | 6370 | 7819 | 6434 | 6104 | 6721 | 6950 | . | **6135** | **6251** | . |
| W010025R1 | **4901** | . | . | 7750 | . | . | 6813 | . | . | **6488** | . | . |
| W010025T1 | 4585 | . | . | 7309 | . | . | 6592 | . | . | **6162** | . | . |
| W010025Y1 | 4520 | . | . | 7232 | . | . | 6440 | . | . | **6064** | . | . |
| Average | 4126 | 5196 | 6347 | 7903 | 6615 | 6404 | 7216 | 7809 | 8405 | 6451 | 6514 | 6944 |
| LSD at 10% Level | 703 | 493 | 496 | 578 | 384 | 392 | 670 | 655 | 830 | NS[2] | NS | NS |
| Std. Error of Entry Mean | 298 | 209 | 209 | 245 | 163 | 165 | 283 | 277 | 247 | 162 | 122 | 93 |

1. Athens 2017 data with Griffin data for 2016 and 2015. Griffin provided Piedmont region data in previous years.
2. The F-Test indicated no statistical difference at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

# Triticale and Rye Forage

## Tifton, Georgia:
## Triticale and Rye Forage Performance, 2016-2017

| | Dry Matter Yield | | | | |
|---|---|---|---|---|---|
| | Harvest Date | | | Season Totals | |
| Brand-Variety | 1/30/2017 | 2/21/2017 | 3/22/2017 | 2017 | 2-Yr Avg |
| | lb/acre | | | | |
| **Triticale** | | | | | |
| Trical 342 | **1982** | 937 | 2374 | **5293** | **4933** |
| NS 202567 | 1013 | 1143 | 2461 | 4617 | . |
| FL 01143 | **1677** | 839 | 2036 | 4552 | 4363 |
| SS 1414 Triticale | 730 | **1546** | 1993 | 4269 | **5070** |
| NF201 | 370 | 980 | **2842** | 4193 | **5233** |
| FL 08128 | 469 | 893 | 1536 | 2897 | 3909 |
| Average | 1040 | 1056 | 2207 | 4303 [1] | 4701 |
| LSD at 10% Level | 351 | 185 | 230 | 514 | 325 |
| Std. Err. of Entry Mean | 142 | 75 | 93 | 207 | 134 |
| **Rye** | | | | | |
| FL 104 | **1296** | 1220 | 2810 | **5325** | **5135** |
| FL 2X 406 | 948 | **1448** | 2712 | **5108** | **5331** |
| NF99362 | 621 | 1067 | **3169** | 4857 | . |
| Wrens Abruzzi | 708 | 1198 | **2875** | 4781 | **5837** |
| NF95319B | 675 | 1209 | 2842 | 4726 | **5712** |
| Florida 401 | **1383** | 708 | 2614 | 4705 | **4645** |
| Bates RS4 | 773 | 1111 | 2744 | 4629 | **5478** |
| NF97325 | 501 | 1100 | 2821 | 4421 | **5298** |
| Maton II | 458 | 839 | **2952** | 4248 | **5048** |
| Maton | 675 | 817 | 2570 | 4062 | **5674** |
| FL 4X 404 | 348 | 1253 | 2363 | 3964 | **4660** |
| Elbon | 621 | 730 | 2331 | 3681 | **5102** |
| Oklon | 338 | 523 | 2298 | 3158 | **4748** |
| Average | 719 | 1017 | 2700 | 4436 [2] | 5222 |
| LSD at 10% Level | 244 | 169 | 294 | 433 | NS[3] |
| Std. Err. of Entry Mean | 102 | 71 | 123 | 181 | 176 |

1. C.V. = 9.6%, and df for EMS = 15.
2. C.V. = 8.2%, and df for EMS = 36.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 9, 2016.
Seeding Rate: Triticale: 27 seed/foot in 7" rows.
Rye: 36 seed/foot in 7" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = High, K = High, and pH = 6.0.
Fertilization: Preplant: 50 lb N, 50 lb $P_2O_5$, and 50 lb $K_2O$/acre.
Topdress: 50 lb N/acre after 1st and 2nd harvests.
Management: Disked, moldboard plowed, and rototilled.
Previous Crop: Grain sorghum.

Test conducted by R. Brooke and D. Dunn.

# Plains, Georgia:
# Triticale and Rye Forage Performance, 2016-2017

| Brand-Variety | Dry Matter Yield | | | |
|---|---|---|---|---|
| | Harvest Date | | Season Totals | |
| | 2/2/2017 | 3/20/2017 | 2017 | 2-Yr Avg |
| | lb/acre | | | |
| **Triticale** | | | | |
| NF201 | 2069 | **5215** | **7284** | **5981** |
| NS 202567 | 2548 | 3733 | 6281 | . |
| SS 1414 Triticale | 2581 | 3656 | 6237 | 5576 |
| FL 08128 | 2156 | 2833 | 4989 | 4505 |
| Trical 342 | **2908** | 1725 | 4633 | 4203 |
| FL 01143 | 2516 | 1739 | 4255 | 3656 |
| Average | 2463 | 3150 | 5613 [1] | 4784 |
| LSD at 10% Level | 308 | 265 | 337 | 259 |
| Std. Err. of Entry Mean | 124 | 107 | 136 | 107 |
| **Rye** | | | | |
| NF97325 | 2309 | **5285** | **7593** | **6081** |
| NF95319B | 2298 | **4959** | **7257** | **5948** |
| Maton | 2047 | **5107** | **7154** | **6295** |
| Wrens Abruzzi | 2134 | **4936** | 7070 | **6006** |
| Bates RS4 | 2113 | 4766 | 6878 | **5885** |
| FL 104 | **2886** | 3761 | 6647 | **5326** |
| FL 2X 406 | **2755** | 3832 | 6587 | **5415** |
| NF99362 | 1917 | 4644 | 6561 | . |
| Maton II | 1939 | 4494 | 6432 | **5797** |
| FL 4X 404 | 2048 | 4285 | 6332 | **5066** |
| Oklon | 1851 | 4152 | 6003 | **5658** |
| Elbon | 1732 | 4006 | 5737 | **5433** |
| Florida 401 | **2973** | 2678 | 5651 | **4825** |
| Average | 2231 | 4377 | 6608 [2] | 5644 |
| LSD at 10% Level | 319 | 442 | 468 | NS[3] |
| Std. Err. of Entry Mean | 134 | 185 | 196 | 129 |

1. C.V. = 4.8%, and df for EMS = 15.
2. C.V. = 6.0%, and df for EMS = 36.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 8, 2016.
Seeding Rate: Triticale: 27 seed/foot in 7" rows.
Rye: 36 seed/foot in 7" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = Very High, and pH = 5.9.
Fertilization: Preplant: 28 lb N, 80 lb $P_2O_5$, 80 lb $K_2O$, and 1,000 lb dolomitic lime/acre.
Topdress: 50 lb N/acre after 1st harvest.
Management: Disked, chisel plowed, field conditioned, and rototilled.
Previous Crop: Peanuts.

Test conducted by R. Brooke and D. Dunn.

# Athens, Georgia:
# Triticale and Rye Forage Performance, 2016-2017

| | Dry Matter Yield | | | |
|---|---|---|---|---|
| | Harvest Date | | | Season Total |
| Brand-Variety | 2/1/2017 | 3/6/2017 | 4/10/2017 | 2017 |
| | lb/acre | | | |
| **Triticale** | | | | |
| FL 08128 | **3669** | **2491** | **3894** | **10053** |
| NF201 | **4005** | **1556** | **4399** | **9959** |
| FL 01143 | **3539** | **2036** | **4333** | **9907** |
| SS 1414 Triticale | **4489** | **2269** | 3011 | **9769** |
| NS 202567 | **3991** | **1913** | **3424** | **9328** |
| Trical 342 | **4395** | **2558** | 928 | 7881 |
| Average | 4014 | 2137 | 3331 | 9483 [1] |
| LSD at 10% Level | NS[2] | NS | 1096 | 987 |
| Std. Err. of Entry Mean | 471 | 325 | 442 | 398 |
| **Rye** | | | | |
| FL 2X 406 | **5653** | 1805 | **4489** | **11947** |
| FL 104 | **5614** | 1930 | **4281** | **11824** |
| Florida 401 | **5883** | 2301 | 3592 | **11777** |
| Bates RS4 | 3190 | 3360 | **4709** | **11259** |
| Wrens Abruzzi | 4134 | 2444 | **4665** | **11244** |
| Maton II | 2459 | 4424 | 4245 | **11128** |
| NF95319B | 3409 | 3014 | **4670** | **11092** |
| NF97325 | 3561 | 3052 | **4314** | **10928** |
| NF99362 | 2880 | 3461 | **4286** | 10627 |
| Oklon | 877 | **4555** | **4930** | 10361 |
| Maton | 1451 | **5000** | 3892 | 10343 |
| FL 4X 404 | 3903 | 1633 | **4620** | 10155 |
| Elbon | 1212 | 4351 | **4554** | 10117 |
| Average | 3402 | 3179 | 4403 | 10985 [3] |
| LSD at 10% Level | 895 | 447 | 655 | 1098 |
| Std. Err. of Entry Mean | 375 | 187 | 274 | 459 |

1. C.V. = 8.4%, and df for EMS = 15.
2. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
3. C.V. = 8.4%, and df for EMS = 36.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 11, 2016.

Seeding Rate: Triticale: 27 seed/foot in 7" rows.
Rye: 36 seed/foot in 7" rows.

Soil Type: Augusta A/Chewacla silt loam.

Soil Test: P = Medium, K = Low, and pH = 6.1.

Fertilization: Preplant: 50 lb N, 165 lb $P_2O_5$, and 330 lb $K_2O$/acre.
Topdress: 50 lb N/acre after 1st and 2nd harvests.

Management: Chisel plowed, disked, and rototilled; Harmony Extra and Powerflex used for weed control; Karate and Sivanto used for insect control.

Previous Crop: Sorghum.

Test conducted by H. Jordan and G. Ware.

# Marianna, Florida:
# Triticale and Rye Forage Performance, 2016-2017

| | Dry Matter Yield | | | | | | |
|---|---|---|---|---|---|---|---|
| | Harvest Date | | | | | Season Totals | |
| Brand-Variety | 1/5/2017 | 2/6/2017 | 3/7/2017 | 4/6/2017 | | 2017 | 2-Yr Avg[1] |
| | lb/acre | | | | | | |
| **Triticale** | | | | | | | |
| SS 1414 Triticale | **1796** | **1496** | **2148** | **512** | | **5952** | . |
| NF201 | **1664** | 1299 | **2459** | 339 | | **5760** | **5481** |
| FL 08128 | **1828** | 800 | 1949 | 324 | | 4900 | 4433 |
| FL 01143 | **1959** | 162 | 1767 | 279 | | 4166 | 3827 |
| Average | 1812 | 939 | 2081 | 363 | | 5194 [2] | 4580 |
| LSD at 10% Level | NS[3] | 169 | 435 | 89 | | 518 | 472 |
| Std. Err. of Entry Mean | 130.1 | 65.1 | 167.8 | 34.3 | | 200 | 187.2 |
| **Rye** | 1/11/2017 | 2/14/2017 | 3/9/2017 | 4/7/2017 | 5/10/2017 | | |
| Maton | **2112** | 1354 | **1597** | **1109** | **475** | **6646** | **9207** |
| Oklon | **1949** | 1346 | 1269 | **1083** | **591** | **6237** | **11544** |
| Maton II | **1604** | 1558 | **1533** | 1031 | **426** | **6152** | **7753** |
| NF95319B | **2127** | **1690** | 1041 | 877 | **363** | **6097** | **.** |
| FL 4X 404 | **1279** | **1951** | 898 | **1332** | **520** | **5980** | **6026** |
| Wrens Abruzzi | **1772** | **1825** | 939 | 912 | **530** | **5978** | **6384** |
| Bates RS4 | **1993** | **1641** | 1058 | 787 | **356** | **5835** | **6155** |
| NF97325 | **1342** | **1772** | 1171 | **1142** | **397** | **5823** | **.** |
| NF99362 | **1467** | 1612 | 1274 | 920 | **492** | **5764** | **.** |
| FL 2X 406 | **1615** | 1581 | 769 | **1092** | **527** | 5584 | **7185** |
| FL 104 | **1772** | 1564 | 751 | 783 | **429** | 5298 | **5893** |
| Elbon | **1312** | 1206 | 1242 | 1016 | **349** | 5124 | **11366** |
| Florida 401 | **1985** | 579 | 681 | 808 | **394** | 4447 | **4807** |
| Average | 1717 | 1514 | 1094 | 991 | 450 | 5766 [4] | 7632 |
| LSD at 10% Level | NS | 318 | 231 | 256 | NS | 1046 | NS |
| Std. Err. of Entry Mean | 365.2 | 133.3 | 96.6 | 107.3 | 81.8 | 438.1 | 325.2 |

1. Average of data from 2015 and 2017.
2. C.V. = 7.7%, and df for EMS = 9.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.
4. C.V. = 15.2%, and df for EMS = 36.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: Triticale: October 28, 2016.
Rye: October 25, 2016.

Seeding Rate: Triticale: 27 seed/foot in 7" rows.
Rye: 36 seed/foot in 7" rows.

Soil Type: Chipola loamy sand.

Soil Test: P = Medium, K = Low, and pH = 5.6.

Fertilization: Preplant: 50 lb N, 20 lb $P_2O_5$, 60 lb $K_2O$, and 15 lb S/acre.
Topdress: Triticale -50 lb N/acre after 1st, 2nd, and 3rd harvests.
Rye - 50 lb N/acre after 1st, 2nd, 3rd, and 4th harvests.

Management: Disked, moldboard plowed, and rototilled; Harmony Extra used for weed control.

Previous Crop: Corn.

Test conducted by J. Jones.

# Statewide Summary: Triticale Forage Performance, 2016-2017 with Two- and Three-Year Averages

| | Dry Forage Yield | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tifton | | | Plains | | | Athens[1] | | | Statewide | | |
| Brand-Variety | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg |
| | lb/acre | | | | | | | | | | | |
| FL 01143 | 4552 | **4363** | **5388** | 4255 | **3656** | 4132 | **9907** | **7768** | **7381** | **6238** | 5262 | 5634 |
| FL 08128 | 2897 | **3909** | **5127** | 4989 | **4505** | 5158 | **10053** | **8488** | **8307** | **5979** | 5634 | 6197 |
| NF201 | 4193 | **5233** | **6329** | **7284** | **5981** | 6467 | **9959** | **7830** | **8181** | **7145** | **6348** | **6992** |
| NS 202567 | 4617 | . | . | 6281 | . | . | **9328** | . | . | **6742** | . | . |
| SS 1414 Triticale | 4269 | **5070** | **6154** | 6237 | **5576** | **6231** | **9769** | **7976** | **7910** | **6758** | **6207** | 6765 |
| Trical 342 | **5293** | **4933** | **5689** | 4633 | **4203** | 4790 | 7881 | **7133** | **7275** | **5935** | 5423 | 5918 |
| Average | 4303 | 4701 | 5737 | 5613 | 4784 | 5356 | 9483 | 7839 | 7811 | 6466 | 5775 | 6301 |
| LSD at 10% Level | 515 | NS[2] | NS | 337 | NS | 484 | 987 | NS | NS | NS | 281 | 213 |
| Std. Error of Entry Mean | 207 | 134 | 115 | 136 | 107 | 203 | 398 | 262 | 221 | 156 | 104 | 107 |

1. Athens 2017 data with Griffin data for 2016 and 2015. Griffin provided Piedmont region data in previous years.
2. The F-Test indicated no statistical difference at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

# Statewide Summary:
# Rye Forage Performance, 2016-2017
# with Two- and Three-Year Averages

| | Dry Forage Yield | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tifton | | | Plains | | | Athens[1] | | | Statewide | | |
| Brand-Variety | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg |
| | lb/acre | | | | | | | | | | | |
| Bates RS4 | 4629 | **5478** | **6640** | **6878** | **6990** | **7027** | **11259** | **8699** | **8914** | **7588** | **7055** | **7527** |
| Elbon | 3681 | **5102** | **6748** | **5737** | **6595** | **6881** | 10117 | 7978 | **7840** | 6512 | **6558** | **7156** |
| FL 104 | **5325** | **5135** | **5999** | **6647** | **5976** | **5753** | **11824** | **9042** | **8472** | **7932** | **6718** | **6741** |
| FL 2X 406 | **5108** | **5331** | **6878** | **6587** | **6739** | **6789** | **11947** | **9152** | **9195** | **7881** | **7074** | **7621** |
| FL 4X 404 | 3964 | **4660** | **5592** | **6332** | **5487** | **5205** | 10155 | 7974 | **7688** | 6817 | **6041** | **6162** |
| Florida 401 | 4705 | **4645** | **5475** | **5651** | **5082** | **4892** | **11777** | **8835** | **7821** | **7378** | **6187** | **6063** |
| Maton | 4062 | **5674** | **6922** | **7154** | **7369** | **7440** | 10343 | 8150 | **8169** | 7186 | **7064** | **7510** |
| Maton II | 4248 | **5048** | **6467** | **6432** | **6735** | **6837** | **11128** | 8556 | **8537** | 7269 | **6780** | **7280** |
| NF95319B | 4726 | **5712** | . | **7257** | . | . | **11092** | **8592** | . | **7691** | . | . |
| NF97325 | 4421 | **5298** | . | **7593** | . | . | **10928** | 8460 | . | **7647** | . | . |
| NF99362 | 4857 | . | . | **6561** | . | . | 10627 | . | . | **7348** | . | . |
| Oklon | 3158 | **4748** | **6310** | **6003** | **6502** | **6668** | 10361 | 8052 | **8271** | 6507 | **6434** | **7083** |
| Wrens Abruzzi | 4781 | **5837** | **6723** | **7070** | **6857** | **6786** | **11244** | **8855** | **8654** | **7698** | **7183** | **7387** |
| Average | 4436 | 5222 | 6375 | 6608 | 6433 | 6428 | 10985 | 8529 | 8356 | 7343 | 6709 | 7053 |
| LSD at 10% Level | 433 | NS[2] | NS | NS | NS | NS | 1098 | 570 | NS | 642 | NS | NS |
| Std. Error for Entry Mean | 181 | 177 | 201 | 196 | 194 | 158 | 460 | 242 | 204 | 177 | 114 | 108 |

1. Athens 2017 data with Griffin data for 2016 and 2015. Griffin provided Piedmont region data in previous years.
2. The F-Test indicated no statistical difference at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD(P = 0.10).

# Triticale Silage

## Tifton, Georgia:
## Triticale Silage Performance, 2016-2017

| Company or Brand Nane | Variety Name or Number | Forage Yield Dry | Forage Yield Green | Plant Height | Dry Matter | 2-Yr Avg Dry Yield | Head Date |
|---|---|---|---|---|---|---|---|
| | | tons/acre | | in | % | tons/acre | |
| Northern Seed,Inc | Trical 342 | **3.8** | **7.5** | 44 | 51 | **4.1** | 02/28 |
| Southern States | SS 1414 Triticale | **3.6** | **7.5** | 41 | 48 | **4.1** | 03/02 |
| Northern Seed LLC | NS 202567 | **3.3** | **9.1** | . | 36 | . | 03/24 |
| OGI | NF201 | **3.2** | **7.4** | 47 | 43 | 3.4 | 03/03 |
| University of Florida | FL 08128 | 2.8 | 6.4 | 43 | 43 | **3.5** | 02/27 |
| Syngenta Seed,Inc | FL 01143 | 2.2 | 6.6 | 45 | 34 | 3.4 | 02/20 |
| Average | | 3.1 [1] | 7.4 [2] | 44 | 42 | 3.7 [3] | 03/02 |
| LSD at 10% Level | | 0.7 | 1.8 | . | 2 | 0.6 | . |
| Std. Err. of Entry Mean | | 0.3 | 0.7 | . | 1 | 0.3 | . |

1. CV = 18.0%, and df for EMS = 15.
2. CV = 19.0 %, and df for EMS = 15.
3. CV = 20.6 %, and df for EMS = 25.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 17, 2016.
Harvested: April 7, 2017.
Seeding Rate: 27 seeds/acre in 7" rows.
Soil Type: Dothan loamy sand.
Soil Test: P = Medium, K = Low, and pH = 6.2.
Fertilization: 50 lb N, 100 lb $P_2O_5$, and 80 lb $K_2O$/acre as preplant; 100 lb N/acre as topdress.
Previous Crop: Peanuts.
Management: Disked, moldboard plowed, and rototilled; Harmony Extra used for weed control.

Test conducted by R. Brooke and D. Dunn.

# Athens, Georgia:
# Triticale Silage Performance, 2016-2017

| Company or Brand Nane | Variety Name or Number | Forage Yield | | Plant Height | Dry Matter | 2-Yr Avg Dry Yield | Head Date |
|---|---|---|---|---|---|---|---|
| | | Dry | Green | | | | |
| | | tons/acre | | in | % | tons/acre | |
| Northern Seed LLC | Trical 342 | **5.6** | 18.8 | 41 | 30 | . | 03/09 |
| University of Florida | FL 01143 | **5.6** | 18.4 | 44 | 30 | . | 03/02 |
| Southern States | SS 1414 Triticale | **5.3** | 20.3 | 39 | 26 | . | 03/15 |
| Northern Seed LLC | NS 202567 | **5.2** | **22.6** | 33 | 23 | . | . |
| Oklahoma Genetics Inc. | NF201 | 4.6 | 19.4 | 41 | 23 | . | 03/13 |
| University of Florida | FL 08128 | 3.6 | 14.4 | 39 | 25 | . | 03/11 |
| Average | | 5.0 [1] | 19.0 [2] | 39 | 26 | . | 03/10 |
| LSD at 10% Level | | 0.7 | 1.4 | 3 | 2 | . | . |
| Std. Err. of Entry Mean | | 0.3 | 0.6 | 1 | 1 | . | . |

1. CV = 11.2%, and df for EMS = 15.
2. CV = 6.0%, and df for EMS = 15.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 27, 2016.
Harvested: March 27, 2017.
Seeding Rate: 27 seeds/acre in 7" rows.
Soil Type: Augusta A/Chewacla silt loam.
Soil Test: P = Medium, K = Low, and pH = 6.1.
Fertilization: 20 lb N, 120 lb $P_2O_5$, and 240 lb $K_2O$/acre as preplant; 80 lb N/acre as topdress.
Previous Crop: Sorghum.
Management: Chisel plowed, disked, and rototilled; Harmony Extra and Powerflex used for weed control; Karate and Sivanto used for insect control.

Test conducted by H. Jordan and G. Ware.

# Statewide Summary:
# Triticale Silage Performance, 2016-2017 with Two-Year Average

| | Yield | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | South[1] | | | | | | North[2] | | | | | | Statewide | | | | | |
| | 2017 | | 2-Yr Average | | 3-Yr Average | | 2017 | | 2-Yr Average | | 3-Yr Average | | 2017 | | 2-Yr Average | | 3-Yr Average | |
| Brand-Variety | Green | Dry | Green | Dry | Green | Dry | Green | Dry | Green | Dry | Green | Dry | Green | Dry | Green | Dry | Green | Dry |
| | tons/acre | | | | | | | | | | | | | | | | | |
| FL 01143 | 6.6 | 2.2 | 11.3 | **3.4** | **9.6** | **3.0** | 18.4 | **5.6** | **14.5** | **4.3** | **18.6** | **4.6** | 12.5 | **3.9** | **12.9** | **3.8** | **14.1** | **3.8** |
| FL 08128 | 6.4 | 2.8 | 11.6 | **3.5** | **10.4** | **3.2** | 14.4 | 3.6 | **14.1** | **3.8** | **19.0** | **4.2** | 10.4 | **3.2** | **12.9** | **3.7** | **14.7** | **3.7** |
| NF201 | **7.4** | **3.2** | **12.1** | **3.4** | **9.8** | **2.8** | 19.4 | 4.6 | **16.8** | **4.0** | **20.9** | **4.2** | 13.4 | **3.9** | **14.4** | **3.7** | **15.3** | **3.5** |
| NS 202567 | **9.1** | **3.3** | . | . | . | . | **22.6** | **5.2** | . | . | . . | . | **15.9** | **4.2** | . | . | . | . |
| SS 1414 Triticale | **7.5** | **3.6** | **13.1** | **4.1** | **10.4** | **3.3** | 20.3 | **5.3** | . | . | . | . | 13.9 | **4.4** | . | . | . | . |
| Trical 342 | **7.5** | **3.8** | **12.3** | **4.1** | **10.0** | **3.3** | 18.8 | **5.6** | **16.0** | **4.6** | **20.1** | **4.7** | 13.1 | **4.7** | **14.1** | **4.4** | **15.0** | **4.0** |
| Average | 7.4 | 3.2 | 12.1 | 3.7 | 10.0 | 3.1 | 19.0 | 5.0 | 15.4 | 4.2 | 19.7 | 4.4 | 13.2 | 4.1 | 13.6 | 3.9 | 14.8 | 3.8 |
| LSD at 10%Level | 1.8 | 0.8 | 1.2 | NS[3] | NS | NS | 1.4 | 0.7 | NS | NS | NS | NS | 1.1 | NS | NS | NS | NS | NS |
| Std. Error of Entry Mean | 0.7 | 0.3 | 0.5 | 0.2 | 0.3 | 0.1 | 0.6 | 0.3 | 0.6 | 0.2 | 0.5 | 0.1 | 0.5 | 0.2 | 0.4 | 0.1 | 0.3 | 0.1 |

1. Tifton.
2. Athens 2017 data with Griffin data for 2016 and 2015. Griffin provided Piedmont region data in previous years.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

# Oat Forage

## Tifton, Georgia:
## Oat Forage Performance, 2016-2017

| | Dry Matter Yield | | | | |
|---|---|---|---|---|---|
| | Harvest Date | | | Season Totals | |
| Brand-Variety | 1/30/2017 | 2/21/2017 | 3/22/2017 | 2017 | 2-Yr Avg |
| | lb/acre | | | | |
| SCOP 85-8 | 1263 | **1547** | 3267 | **6077** | . |
| Okay | 871 | **1524** | 3561 | **5957** | **7068** |
| TX14OCS5078 | **1753** | **1557** | 2538 | **5848** | . |
| TAMO 411 | 1115 | **1557** | 3093 | **5765** | **6764** |
| TAMO 606 | 359 | **1165** | **4172** | **5696** | **6578** |
| Horizon 306 | 1263 | **1318** | 3114 | **5695** | **6746** |
| RAM LA99016 | 752 | **1416** | 3507 | **5674** | **6687** |
| SS 76-50 | 632 | **1426** | 3615 | **5673** | **6419** |
| Horizon 720 | 1296 | **1405** | 2940 | **5641** | **6540** |
| Legend 567 | **1819** | **1307** | 2505 | **5630** | **5946** |
| NF 402 | 741 | **1231** | 3561 | **5532** | **6697** |
| Graham | 1067 | **1372** | 3016 | 5456 | . |
| TX14OCS5157 | 1057 | **1753** | 2559 | 5369 | . |
| Horizon 270 | 1361 | **1372** | 2636 | 5369 | **6306** |
| FL 0914-U2 | 969 | **1318** | 2962 | 5249 | . |
| TX14OCS5061 | 469 | **1285** | 3430 | 5184 | . |
| TX14OCS5159 | 926 | **1481** | 2766 | 5173 | . |
| SCLA 0100214 | 823 | **1285** | 3060 | 5169 | . |
| SCOP 86-13 | 348 | **1263** | 3398 | 5009 | . |
| Average | 994 | 1399 | 3142 | 5535 [1] | 6575 |
| LSD at 10% Level | 313 | NS[2] | 331 | 553 | NS |
| Std. Err. of Entry Mean | 132 | 153 | 140 | 233 | 154 |

1. C.V. = 8.4%, and df for EMS = 54.
2. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 9, 2016.
Seeding Rate: 22 seed/foot in 7" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = High, K = Medium, and pH = 6.0.
Fertilization: Preplant: 50 lb N, 50 lb $P_2O_5$, and 50 lb $K_2O$/acre.
Topdress: 50 lb N/acre after 1st and 2nd harvests.
Management: Disked, moldboard plowed, and rototilled.
Previous Crop: Grain sorghum.

Test conducted by R. Brooke and D. Dunn.

# Plains, Georgia:
# Oat Forage Performance, 2016-2017

| | Dry Matter Yield | | | | |
|---|---|---|---|---|---|
| | Harvest Date | | | Season Totals | |
| Brand-Variety | 2/2/2017 | 3/20/2017 | 4/18/2017 | 2017 | 2-Yr Avg |
| | lb/acre | | | | |
| Okay | 2461 | **5446** | 1481 | **9388** | **7113** |
| NF 402 | **2799** | 4577 | **1775** | **9151** | **7219** |
| SCOP 85-8 | 2472 | **5291** | 1241 | **9004** | . |
| TX14OCS5159 | 2570 | 5006 | 1242 | 8818 | . |
| Horizon 306 | 2363 | **5258** | 1176 | 8798 | **6885** |
| RAM LA99016 | 2450 | 4970 | 1274 | 8694 | **6959** |
| SCLA 0100214 | 2374 | 4790 | 1481 | 8645 | . |
| TX14OCS5157 | 2418 | 4673 | 1318 | 8408 | . |
| TAMO 411 | 2429 | **5118** | 839 | 8385 | 6584 |
| SS 76-50 | 1841 | **5435** | 1089 | 8364 | 6739 |
| Horizon 270 | 2494 | 4307 | 1503 | 8304 | 6518 |
| SCOP 86-13 | 2276 | 4486 | 1394 | 8156 | . |
| Graham | 2385 | 4459 | 1231 | 8075 | . |
| TX14OCS5078 | 2450 | 3976 | 1351 | 7776 | . |
| TAMO 606 | 2189 | 4705 | 795 | 7689 | 6545 |
| TX14OCS5061 | 1917 | 4484 | 1285 | 7686 | . |
| Horizon 720 | 2429 | 3762 | 1481 | 7672 | 6501 |
| FL 0914-U2 | 1906 | 4217 | 1187 | 7311 | . |
| Average | 2346 | 4720 | 1286 | 8351 [1] | 6785 |
| LSD at 10% Level | 227 | 383 | 204 | 511 | 339 |
| Std. Err. of Entry Mean | 96 | 162 | 86 | 216 | 143 |

1. C.V. = 5.2%, and df for EMS = 51.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 8, 2016.
Seeding Rate: 22 seed/foot in 7" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = Very High, and pH = 5.9.
Fertilization: Preplant: 28 lb N, 80 lb $P_2O_5$, 80 lb $K_2O$, and 1,000 lb dolomitic lime/acre.
Topdress: 50 lb N/acre after 1st and 2nd harvests.
Management: Disked, chisel plowed, field conditioned, and rototilled.
Previous Crop: Peanuts.

Test conducted by R. Brooke and D. Dunn.

# Athens, Georgia:
# Oat Forage Performance, 2016-2017

| | Dry Matter Yield | | | |
|---|---|---|---|---|
| | Harvest Date | | | Season Totals |
| Brand-Variety | 2/1/2017 | 3/6/2017 | 4/10/2017 | 2017 |
| | lb/acre | | | |
| SCOP 86-13 | 1027 | **2619** | **2105** | **5751** |
| Horizon 306 | 1709 | **2521** | 1416 | **5646** |
| Okay | 1328 | **2691** | 1224 | **5242** |
| Graham | 1603 | 2209 | 1425 | **5236** |
| Horizon 720 | **2525** | 1350 | 1262 | **5137** |
| TX14OCS5159 | 1619 | 2002 | 1515 | **5136** |
| NF 402 | 1456 | **2507** | 1137 | **5100** |
| SS 76-50 | 1185 | **2797** | 1107 | **5089** |
| SCLA 0100214 | 1403 | 2175 | 1438 | 5015 |
| FL 0914-U2 | 2093 | 1420 | 1392 | 4905 |
| RAM LA99016 | 902 | **2304** | 1652 | 4857 |
| SCOP 85-8 | 1039 | **2444** | 1134 | 4616 |
| TAMO 606 | 708 | **2438** | 1377 | 4522 |
| TAMO 411 | 1117 | 2135 | 1269 | 4521 |
| TX14OCS5078 | 1717 | 1581 | 1136 | 4434 |
| TX14OCS5061 | 572 | 1960 | 1701 | 4232 |
| Horizon 270 | 1450 | 1538 | 1119 | 4107 |
| TX14OCS5157 | 1344 | 1759 | 965 | 4069 |
| Average | 1377 | 2136 | 1354 | 4867 [1] |
| LSD at 10% Level | 316 | 579 | 294 | 712 |
| Std. Err. of Entry Mean | 133 | 244 | 124 | 301 |

1. C.V. = 12.4%, and df for EMS = 51.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 11, 2016.

Seeding Rate: 27 seed/foot in 7" rows.

Soil Type: Augusta A/Chewacla silt loam.

Soil Test: P = Medium, K = Low, and pH = 6.1.

Fertilization: Preplant: 50 lb N, 165 lb $P_2O_5$, and 330 lb $K_2O$/acre.
Topdress: 50 lb N/acre after 1st and 2nd harvests.

Management: Chisel plowed, disked, and rototilled; Harmony Extra used for weed control; Karate and Sivanto used for insect control.

Previous Crop: Sorghum.

Test conducted by H. Jordan and G. Ware.

# Marianna, Florida:
# Oat Forage Performance, 2016-2017

| | Dry Matter Yield | | | | | |
|---|---|---|---|---|---|---|
| | Harvest Date | | | | Season Totals | |
| Brand-Variety | 1/6/2017 | 2/6/2017 | 3/13/2017 | 4/11/2017 | 2017 | 2-Yr Avg |
| | lb/acre | | | | | |
| Okay | **3014** | 813 | **4172** | 500 | **8498** | **6302** |
| SS 76-50 | **2907** | **1039** | 3961 | 333 | **8240** | **5706** |
| NF 402 | 2710 | 519 | 3617 | **1353** | **8199** | **6083** |
| TAMO 411 | 2448 | **896** | **4169** | 421 | **7934** | **5988** |
| TX14OCS5157 | 2648 | 584 | 3893 | 657 | 7782 | . |
| SCLA 0100214 | 2726 | 404 | 3506 | 1054 | 7690 | . |
| TX14OCS5061 | 1816 | **1081** | **4374** | 415 | 7686 | . |
| Horizon 306 | 2835 | 765 | 3016 | 948 | 7564 | **6000** |
| RAM LA99016 | 2550 | 424 | 3640 | 902 | 7515 | **6026** |
| TX14OCS5159 | **2939** | 266 | 3656 | 634 | 7494 | . |
| Graham | **2861** | 462 | 3031 | 1081 | 7436 | . |
| SCOP 86-13 | 2543 | 687 | 3095 | 1031 | 7356 | . |
| SCOP 85-8 | **2917** | 311 | 3446 | 599 | 7272 | . |
| TX14OCS5078 | 2764 | 50 | 3567 | 849 | 7230 | . |
| TAMO 606 | 2380 | **888** | 3301 | 502 | 7071 | **6303** |
| Horizon 270 | 2786 | 62 | 2532 | 476 | 5855 | **4844** |
| Legend 567 | **3317** | . | . | . | 3317 | **4491** |
| Horizon 720 | **3276** | . | . | . | 3276 | **4723** |
| FL 0914-U2 | **2935** | . | . | . | 2935 | . |
| Average | 2756 | 578 | 3561 | 734 | 6860 [1] | 5647 |
| LSD at 10% Level | 465 | 247 | 405 | 171 | 613 | NS[2] |
| Std. Err. of Entry Mean | 197 | 104 | 171 | 72 | 259 | 183 |

1. C.V. = 7.5%, and df for EMS = 54.
2. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 26, 2016.
Seeding Rate: 22 seed/foot in 7" rows.
Soil Type: Chipola loamy sand.
Soil Test: P = Medium, K = Low, and pH = 5.6.
Fertilization: Preplant: 50 lb N, 20 lb $P_2O_5$, 60 lb $K_2O$, and 15 lb S/acre.
Topdress: 50 lb N/acre after 1st, 2nd, and 3rd harvests.
Management: Disked, moldboard plowed, and rototilled; Harmony Extra used for weed control.
Previous Crop: Corn.

Test conducted by J. Jones.

# Statewide Summary:
# Oat Forage Performance, 2016-2017
# with Two- and Three-Year Averages

| | Dry Forage Yield | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tifton | | | Plains | | | Athens[1] | | | Statewide | | |
| Brand-Variety | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg |
| | lb/acre | | | | | | | | | | | |
| FL 0914-U2 | **5249** | . | . | **7311** | . | . | 4905 | . | . | 5821 | . | . |
| Graham | **5456** | . | . | **8075** | . | . | **5236** | 6954 | . | 6255 | . | . |
| Horizon 270 | **5369** | **6306** | 7330 | **8304** | **6518** | **5877** | 4107 | 6038 | . | 5926 | 6287 | . |
| Horizon 306 | **5695** | **6746** | **8021** | **8798** | **6885** | **6233** | **5646** | **7625** | . | **6713** | **7085** | . |
| Horizon 720 | **5641** | **6540** | . | **7672** | **6501** | . | **5137** | 5724 | . | 6150 | 6255 | . |
| Legend 567 | **5630** | **5946** | . | . | . | . | . | . | . | . | . | . |
| NF 402 | **5532** | **6697** | **7981** | **9151** | **7219** | **6777** | **5100** | **7266** | **6928** | **6594** | **7061** | **7229** |
| Okay | **5957** | **7068** | **8377** | **9388** | **7113** | **6616** | **5242** | 6813 | **6609** | **6862** | **6998** | **7201** |
| RAM LA99016 | **5674** | **6687** | 7739 | **8694** | **6959** | **6270** | 4857 | 6732 | **6151** | **6409** | **6792** | 6720 |
| SCLA 0100214 | **5169** | . | . | **8645** | . | . | 5015 | . | . | 6276 | . | . |
| SCOP 85-8 | **6077** | . | . | **9004** | . | . | 4616 | . | . | **6566** | . | . |
| SCOP 86-13 | **5009** | . | . | **8156** | . | . | **5751** | . | . | **6305** | . | . |
| SS 76-50 | **5673** | **6419** | 7371 | **8364** | **6739** | **6007** | **5089** | 7037 | **6570** | **6375** | **6732** | 6649 |
| TAMO 411 | **5765** | **6764** | 7738 | **8385** | **6584** | **6259** | 4521 | 6528 | . | 6223 | **6626** | . |
| TAMO 606 | **4857** | **6158** | 7430 | **7689** | **6545** | **6308** | 4522 | 6806 | . | 5689 | 6503 | . |
| TX14OCS5061 | **5184** | . | . | **7686** | . | . | 4232 | . | . | 5700 | . | . |
| TX14OCS5078 | **5848** | . | . | **7776** | . | . | 4434 | . | . | 6019 | . | . |
| TX14OCS5157 | **5369** | . | . | **8408** | . | . | 4069 | . | . | 5948 | . | . |
| TX14OCS5159 | **5173** | . | . | **8818** | . | . | **5136** | . | . | **6375** | . | . |
| Average | 5491 | 6532 | 7748 | 8351 | 6820 | 6293 | 4867 | 6867 | 6564 | 6234 | 6761 | 6950 |
| LSD at 10% Level | NS[2] | NS | 418 | NS | NS | NS | 712 | 509 | NS | 572 | 493 | 335 |
| Std. Err. of Entry Mean | 297 | 210 | 177 | 216 | 143 | 169 | 301 | 215 | 165 | 159 | 111 | 96 |

1. Athens 2017 data with Griffin data for 2016 and 2015. Griffin provided Piedmont region data in previous years.
2. The F-Test indicated no statistical difference at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

# Ryegrass Forage

## Tifton, Georgia:
## Ryegrass Forage Performance, 2016-2017

| | Dry Matter Yield | | | |
|---|---|---|---|---|
| | Harvest Date | | Season Totals | |
| Brand-Variety | 2/21/2017 | 3/22/2017 | 2017 | 2-Yr Avg |
| | ---------- lb/acre ---------- | | | |
| Earlyploid | 1078 | **3975** | **5053** | **6224** |
| FL4X Marmid | 1198 | **3812** | **5010** | **6289** |
| Flying A | 1122 | **3877** | **4999** | **6262** |
| GA102A | 1274 | **3605** | **4879** | . |
| GALM1401 | 1176 | **3648** | **4824** | **5707** |
| Striker | **1449** | 3365 | **4813** | . |
| FL4X Marona | 1089 | **3605** | **4694** | **6169** |
| GALM1503 | 1089 | **3561** | **4650** | . |
| Grazer | 1078 | 3485 | **4563** | **5946** |
| SARG-FL | 1154 | 3365 | **4519** | . |
| GALM1402 | 1274 | 3213 | **4487** | . |
| FL AT-3 | 1263 | 3224 | **4487** | . |
| PS12 | **1601** | 2766 | 4367 | **6061** |
| GALM1403 | 1035 | 3191 | 4225 | **5619** |
| GALM1501 | 1013 | 3202 | 4215 | . |
| TAMTBO | 1078 | 3136 | 4214 | **5946** |
| Prine | 1253 | 2930 | 4182 | **5467** |
| Credence | 1154 | 3017 | 4171 | **5843** |
| Fria | 1318 | 2842 | 4160 | **5690** |
| RMexp2013B | 1035 | 3115 | 4149 | . |
| Diamond T | 1143 | 2973 | 4116 | **5679** |
| Big Boss | 1176 | 2929 | 4105 | **5973** |
| FL AT1 | 1089 | 3006 | 4094 | **5848** |
| Andes | 1056 | 3017 | 4073 | **6055** |
| Attain | 1024 | 3028 | 4051 | **5832** |
| Jumbo | 1198 | 2843 | 4041 | **6017** |
| Nelson Tetraploid | 1111 | 2897 | 4007 | **5771** |
| PS15 | 1144 | 2799 | 3942 | **5636** |
| GALM1515 | 860 | 3060 | 3921 | **5189** |
| GALM1514 | 980 | 2930 | 3910 | **5636** |
| GALM1513 | 947 | 2962 | 3909 | **5401** |
| TetraStar | 1067 | 2820 | 3888 | **5500** |
| Maximus | 1035 | 2842 | 3877 | **5391** |
| GALM1502 | 1165 | 2614 | 3779 | . |
| BAR LM 14167-4 | 893 | 2875 | 3768 | . |
| Lonestar | 980 | 2734 | 3714 | **5194** |
| Winterhawk | 730 | 2929 | 3659 | **5630** |
| ME94 EXP | 708 | 2864 | 3572 | **5609** |
| Jackson | 741 | 2832 | 3572 | **5183** |
| GA101M | 773 | 2690 | 3463 | . |

# Tifton, Georgia:
# Ryegrass Forage Performance, 2016-2017
# (Continued)

| | Dry Matter Yield | | | |
|---|---|---|---|---|
| | Harvest Date | | Season Totals | |
| Brand-Variety | 2/21/2017 | 3/22/2017 | 2017 | 2-Yr Avg |
| | ---------- lb/acre ---------- | | | |
| BAR LM 14167-1 | 741 | 2679 | 3419 | . |
| ME4 EXP | 643 | 2701 | 3343 | **5733** |
| BAR LM 16498 | 1024 | 2298 | 3321 | . |
| Kodiak | 664 | 2635 | 3300 | . |
| McKinley | 839 | 2418 | 3256 | . |
| Wax Marshall | 555 | 2690 | 3245 | **5385** |
| WMWL EXP | 762 | 2374 | 3136 | . |
| M2CVS EXP | 523 | 2439 | 2962 | **5080** |
| BAR LM 15426 | 610 | 2276 | 2886 | **4312** |
| BAR LM 16488 | 665 | 2145 | 2810 | . |
| Passerel Plus | 675 | 2124 | 2799 | **5369** |
| Average | 1005 | 2968 | 3972 [1] | 5666 |
| LSD AT 10% LEVEL | 307 | 466 | 615 | NS[2] |
| Std. Err. of Entry Mean | 131 | 200 | 263 | 243 |

1. C.V. = 13.2%, and df for EMS = 150.
2. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 9, 2016.
Seeding Rate: 50 lb/acre in 7" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = High, K = High, and pH = 6.0.
Fertilization: Preplant: 50 lb N, 50 lb $P_2O_5$, and 50 lb $K_2O$/acre.
Topdress: 50 lb N/acre after 1st harvest.
Management: Disked, moldboard plowed, and rototilled.
Previous Crop: Grain sorghum.

Test conducted by R. Brooke and D. Dunn.

# Plains, Georgia:
# Ryegrass Forage Performance, 2016-2017

| | Dry Matter Yield | | | | |
|---|---|---|---|---|---|
| | Harvest Date | | | Season Totals | |
| Brand-Variety | 2/2/2017 | 3/20/2017 | 4/18/2017 | 2017 | 2-Yr Avg |
| | lb/acre | | | | |
| TetraStar | **1982** | **5318** | 2799 | **10099** | **8259** |
| ME4 EXP | **2178** | 4855 | 2973 | **10007** | **7888** |
| Wax Marshall | 1459 | **5480** | 2832 | **9771** | **7886** |
| TAMTBO | 1579 | **5592** | 2570 | **9741** | **8007** |
| Earlyploid | **2036** | **5312** | 2320 | **9668** | **7721** |
| M2CVS EXP | 970 | **5480** | **3180** | **9630** | **7628** |
| Lonestar | **1873** | **5484** | 2254 | **9611** | **7845** |
| FL4X Marona | **1939** | **5330** | 2341 | **9610** | **7518** |
| PS12 | **2102** | 4803 | 2657 | **9561** | **7730** |
| Nelson Tetraploid | **2124** | 4835 | 2570 | **9529** | **8139** |
| PS15 | **1873** | 4854 | 2722 | 9450 | **7849** |
| FL AT-3 | 1634 | **5401** | 2407 | 9441 | . |
| Maximus | **1808** | 4874 | 2734 | 9416 | **7746** |
| Andes | 1753 | **5108** | 2461 | 9322 | **7468** |
| Jackson | 1525 | **5355** | 2417 | 9297 | **7165** |
| Jumbo | **1873** | 4922 | 2450 | 9245 | **7852** |
| BAR LM 14167-4 | 1590 | 4888 | 2755 | 9233 | . |
| BAR LM 15426 | 1546 | 4585 | **3082** | 9213 | **7541** |
| GALM1402 | 1568 | **4989** | 2646 | 9203 | . |
| GA102A | 1721 | 4910 | 2570 | 9201 | . |
| WMWL EXP | 1634 | 4541 | **3017** | 9191 | . |
| Grazer | **2124** | **5202** | 1808 | 9133 | **7345** |
| BAR LM 14167-1 | 1361 | 4616 | **3115** | 9092 | . |
| GALM1513 | 1024 | **5290** | 2744 | 9058 | **7375** |
| Prine | **1884** | 4657 | 2516 | 9057 | **7919** |
| Credence | 1372 | **5208** | 2472 | 9052 | **7610** |
| GALM1502 | 1459 | 4767 | 2799 | 9025 | . |
| BAR LM 16488 | 1318 | 4318 | **3365** | 9000 | . |
| GALM1401 | 1557 | **5190** | 2222 | 8969 | **7140** |
| Flying A | 1830 | **5171** | 1960 | 8961 | **7638** |
| ME94 EXP | 1470 | 4936 | 2537 | 8944 | **7301** |
| Kodiak | 1394 | 4565 | 2984 | 8943 | . |
| Diamond T | **1917** | 4653 | 2363 | 8933 | **7742** |
| BAR LM 16498 | 1427 | 4609 | 2864 | 8900 | . |
| GALM1501 | 1644 | 4622 | 2614 | 8880 | . |
| GALM1403 | 1568 | 4848 | 2451 | 8866 | **7275** |
| Passerel Plus | 1503 | 4793 | 2548 | 8844 | **7312** |
| FL AT1 | 1753 | 4431 | 2657 | 8841 | **7545** |
| Fria | 1721 | **4974** | 2135 | 8829 | **7175** |
| RMexp2013B | **1971** | 4452 | 2374 | 8797 | . |

# Plains, Georgia:
# Ryegrass Forage Performance, 2016-2017
# (Contiued)

| | Dry Matter Yield | | | | |
|---|---|---|---|---|---|
| | Harvest Date | | | Season Totals | |
| Brand-Variety | 2/2/2017 | 3/20/2017 | 4/18/2017 | 2017 | 2-Yr Avg |
| | ---------- lb/acre ---------- | | | | |
| SARG-FL | 1394 | **5104** | 2298 | 8795 | . |
| Big Boss | 1830 | 4484 | 2385 | 8698 | **7608** |
| McKinley | 1503 | 4841 | 2342 | 8685 | . |
| GALM1515 | 1111 | **5317** | 2233 | 8661 | **6918** |
| Attain | 1808 | 4370 | 2407 | 8584 | **7408** |
| Winterhawk | 1361 | 4629 | 2592 | 8582 | **7057** |
| GA101M | 1100 | 4538 | 2908 | 8546 | . |
| GALM1514 | 1481 | 4545 | 2494 | 8520 | **7366** |
| FL4X Marmid | 1470 | 4568 | 2385 | 8423 | **7082** |
| GALM1503 | 1361 | 4775 | 2069 | 8205 | . |
| Average | 1630 | 4908 | 2568 | 9105 [1] | 7560 |
| LSD at 10% Level | 342 | 636 | 367 | 632 | NS[2] |
| Std. Err. of Entry Mean | 146 | 272 | 157 | 270 | 166 |

1. C.V. = 6.0%, and df for EMS = 147.
2. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: November 8, 2016.
Seeding Rate: 50 lb/acre I 7" rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = High, K = Very High, and pH = 5.9.
Fertilization: Preplant: 28 lb N, 80 lb $P_2O_5$, 80 lb $K_2O$, and 1,000 lb dolomitic lime/acre.
Topdress: 50 lb N/acre after 1st and 2nd harvests.
Management: Disked, chisel plowed, field conditioned, and rototilled.
Previous Crop: Peanuts.

Test conducted by R. Brooke and D. Dunn.

# Athens, Georgia:
# Ryegrass Forage Performance, 2016-2017

| | Dry Matter Yield | | | | | |
|---|---|---|---|---|---|---|
| | Harvest Date | | | | | Season Total |
| Brand-Variety | 2/1/2017 | 2/23/2017 | 3/20/2017 | 4/10/2017 | 5/9/2017 | 2017 |
| | lb/acre | | | | | |
| PS15 | **2214** | **2545** | 2899 | **3792** | **3510** | **14959** |
| M2CVS EXP | 1221 | 2016 | **3797** | **3975** | **3665** | **14673** |
| Big Boss | **1958** | 2770 | 2189 | **4028** | **3551** | **14495** |
| Passerel Plus | 1656 | 2160 | 3284 | **3865** | **3496** | **14461** |
| Andes | 1533 | 2375 | 2904 | **3796** | **3728** | **14335** |
| TAMTBO | 1166 | **2621** | 2826 | **4021** | **3660** | **14293** |
| FL AT1 | **1811** | 2320 | 2852 | **3794** | **3445** | **14222** |
| McKinley | 1491 | 2054 | **3433** | 3544 | **3581** | **14103** |
| ME4 EXP | 1793 | 2328 | 3217 | **3893** | 2857 | **14088** |
| Diamond T | 1518 | **2450** | 2821 | **3680** | **3611** | **14080** |
| Maximus | 1638 | 2376 | 2801 | 3488 | **3689** | **13992** |
| Wax Marshall | 1044 | 2190 | **3525** | **3771** | **3437** | **13967** |
| TetraStar | **1831** | 2356 | 2729 | **3674** | **3353** | 13942 |
| PS12 | **2197** | 2353 | 2556 | 3460 | **3378** | 13942 |
| Nelson Tetraploid | **1831** | 2287 | 2923 | **3671** | **3229** | 13940 |
| Credence | 1407 | **2516** | 2849 | **3841** | 3091 | 13704 |
| GALM1402 | 1748 | **2525** | 2457 | 3604 | **3333** | 13667 |
| BAR LM 14167-1 | 989 | **2424** | 3387 | **3709** | 3146 | 13655 |
| BAR LM 16498 | 861 | **2433** | 3031 | 3542 | **3735** | 13601 |
| Flying A | **2018** | 2175 | 3004 | 3473 | 2896 | 13565 |
| Prine | 1433 | **2452** | 2604 | **3827** | **3247** | 13562 |
| GA101M | 1492 | **2688** | 2869 | 3419 | 3088 | 13556 |
| SARG-FL | **1898** | 2404 | 2498 | **3942** | 2792 | 13533 |
| GALM1514 | 1029 | 2205 | 3010 | **3790** | **3406** | 13439 |
| BAR LM 16488 | 494 | 2095 | **3496** | **3941** | **3400** | 13426 |
| Attain | 1599 | 2148 | 2846 | 3650 | 3174 | 13417 |
| GA102A | 1716 | **2637** | 2334 | **3793** | 2905 | 13383 |
| Lonestar | **1962** | 2266 | 2761 | 3488 | 2892 | 13369 |
| BAR LM 14167-4 | 1291 | **2732** | 2435 | 3479 | **3331** | 13267 |
| BAR LM 15426 | 876 | 2382 | 3127 | 3392 | **3430** | 13205 |
| Earlyploid | 1788 | **2487** | 2332 | **3841** | 2747 | 13194 |
| GALM1401 | 1651 | **2629** | 2439 | **3738** | 2702 | 13158 |
| FL AT-3 | 1600 | 2231 | 2716 | **3732** | 2877 | 13156 |
| RMexp2013B | 1456 | 2211 | 2626 | 3371 | **3388** | 13051 |
| Jumbo | 1001 | 2286 | 2838 | 3583 | **3312** | 13019 |
| Fria | **2078** | 2176 | 2449 | 3372 | 2937 | 13011 |
| GALM1502 | 1558 | **2487** | 2693 | 3272 | 2991 | 13000 |
| ME94 EXP | 1225 | 1981 | 3390 | 3582 | 2805 | 12983 |
| WMWL EXP | **1934** | 2121 | 2867 | 3498 | 2450 | 12870 |
| Kodiak | 1210 | 1981 | 3146 | **3671** | 2770 | 12778 |

# Athens, Georgia:
# Ryegrass Forage Performance, 2016-2017
# (Continued)

| | Dry Matter Yield | | | | | |
|---|---|---|---|---|---|---|
| | Harvest Date | | | | | Season Total |
| Brand-Variety | 2/1/2017 | 2/23/2017 | 3/20/2017 | 4/10/2017 | 5/9/2017 | 2017 |
| | lb/acre | | | | | |
| GALM1403 | **1986** | 2122 | 2583 | 3458 | 2600 | 12748 |
| FL4X Marona | 1729 | **2711** | 1881 | **4100** | 2313 | 12734 |
| Jackson | 1317 | 2343 | 2820 | 3240 | 2986 | 12706 |
| Grazer | **2303** | 2261 | 2171 | 3525 | 2416 | 12678 |
| Hostyn | 433 | 1540 | 3329 | 3659 | **3698** | 12658 |
| FL4X Marmid | 1395 | **2518** | 2373 | **3759** | 2588 | 12632 |
| GALM1501 | 1703 | 2347 | 2350 | **3726** | 2477 | 12603 |
| Winterhawk | 1218 | 2079 | 2899 | 3333 | 2897 | 12425 |
| Becva | 361 | 1637 | 3350 | 3599 | **3346** | 12292 |
| GALM1515 | 1505 | **2516** | 2320 | 3604 | 2337 | 12282 |
| GALM1513 | 895 | 2298 | 2812 | 3530 | 2680 | 12215 |
| GALM1503 | **2051** | 2304 | 2323 | 3104 | 2204 | 11986 |
| Average | 1502 | 2318 | 2811 | 3647 | 3107 | 13385 [1] |
| LSD at 10% Level | 499 | 315 | 393 | 435 | 520 | 1006 |
| Std. Err. of Entry Mean | 212 | 134 | 167 | 185 | 221 | 428 |

1. C.V. = 6.4%, and df for EMS = 152.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 11, 2016.
Seeding Rate: 50 lb/acre in 7" rows.
Soil Type: Augusta A/Chewacla silt loam.
Soil Test: P =Medium , K = Low, and pH = 6.1.
Fertilization: Preplant: 50 lb N, 165 lb $P_2O_5$, and 330 lb $K_2O$/acre.
Topdress: 50 lb N/acre after 1st, 2nd, 3rd, and 4th harvests.
Management: Chisel plowed, disked, and rototilled; Harmony Extra used for weed control.
Previous Crop: Sorghum.

Test conducted by H. Jordan and G. Ware.

# Calhoun, Georgia:
# Ryegrass Forage Performance, 2016-2017

| | Dry Matter Yield[1] | | | | |
|---|---|---|---|---|---|
| | Harvest Date | | | Season Totals | |
| Brand-Variety | 4/22/2017 | 5/10/2017 | 6/2/2017 | 2017 | 2-Yr Avg |
| | lb/acre | | | | |
| BAR LM 15426 | 3633 | **3034** | **2950** | **9616** | **10461** |
| BAR LM 16498 | 3658 | 2510 | **2522** | 8690 | . |
| GA101M | 4140 | 1816 | **2489** | 8445 | . |
| Maximus | 4160 | 2115 | 2153 | 8428 | **9815** |
| GALM1513 | 4107 | 1937 | 2261 | 8306 | **10021** |
| Attain | **4464** | 2035 | 1708 | 8207 | **9977** |
| Prine | **4321** | 1954 | 1845 | 8120 | **9918** |
| Nelson Tetraploid | **4416** | 1708 | 1974 | 8098 | 9782 |
| Jumbo | 4156 | 1853 | 1931 | 7940 | 9609 |
| RMexp2013B | 4019 | 2004 | 1901 | 7924 | . |
| GALM1514 | **4548** | 1743 | 1581 | 7871 | 9624 |
| GALM1502 | 3706 | 2332 | 1749 | 7787 | . |
| BAR LM 14167-4 | 4030 | 1835 | 1918 | 7783 | . |
| Becva | 2833 | 2033 | **2887** | 7752 | . |
| BAR LM 14167-1 | 3351 | 1949 | 2416 | 7715 | . |
| TetraStar | **4412** | 1764 | 1515 | 7691 | 9766 |
| WMWL EXP | 3548 | 2220 | 1913 | 7680 | . |
| Lonestar | **4414** | 1444 | 1813 | 7671 | 9389 |
| Credence | **4335** | 1754 | 1497 | 7585 | 9379 |
| GALM1402 | 3865 | 2043 | 1677 | 7584 | . |
| ME4 EXP | 3488 | 1839 | 2256 | 7583 | 9460 |
| GALM1403 | 3760 | 1932 | 1879 | 7571 | 9602 |
| Passerel Plus | 3279 | 2089 | 2192 | 7560 | 9343 |
| GALM1503 | 3798 | 1635 | 2117 | 7550 | . |
| PS15 | 3784 | 1906 | 1805 | 7495 | 9627 |
| Flying A | **4536** | 1450 | 1415 | 7400 | 9016 |
| FL Red 4x | 4132 | 1933 | 1282 | 7347 | . |
| SARG-FL | 4162 | 1752 | 1421 | 7334 | . |
| Diamond T | 3743 | 1598 | 1949 | 7290 | 9205 |
| FL AT-3 | **4349** | 1694 | 1243 | 7285 | . |
| Earlyploid | **4845** | 1579 | 854 | 7277 | 9410 |
| GALM1515 | 3973 | 1713 | 1499 | 7184 | 8869 |
| FL4X Marmid | **4541** | 1462 | 1120 | 7122 | 9014 |
| PS12 | 4041 | 1661 | 1412 | 7113 | 9318 |
| Hostyn | 2660 | 1620 | **2816** | 7096 | . |
| McKinley | 3641 | 1587 | 1822 | 7050 | . |
| Big Boss | **4360** | 1510 | 1136 | 7006 | 9186 |
| Wax Marshall | 3326 | 1741 | 1897 | 6964 | 9178 |
| Fria | 3918 | 1653 | 1393 | 6963 | 9250 |
| Kodiak | 3355 | 1755 | 1809 | 6920 | . |

# Calhoun, Georgia:
# Ryegrass Forage Performance, 2016-2017
# (Continued)

| | Dry Matter Yield[1] | | | | |
|---|---|---|---|---|---|
| | Harvest Date | | | Season Totals | |
| Brand-Variety | 4/22/2017 | 5/10/2017 | 6/2/2017 | 2017 | 2-Yr Avg |
| | ---------- lb/acre ---------- | | | | |
| TAMTBO | 3885 | 1565 | 1373 | 6823 | 9309 |
| GA102A | 3599 | 1678 | 1547 | 6823 | . |
| Grazer | 3758 | 1551 | 1481 | 6789 | 9076 |
| Winterhawk | 3889 | 1630 | 1217 | 6736 | 8948 |
| GALM1501 | 3998 | 1354 | 1355 | 6707 | . |
| FL PE 2x | 3558 | 1428 | 1718 | 6703 | . |
| M2CVS EXP | 2508 | 1997 | 2184 | 6689 | 9039 |
| FL AT1 | 3304 | 1837 | 1540 | 6681 | 9040 |
| GALM1401 | 4164 | 1373 | 1135 | 6672 | 8949 |
| BAR LM 16488 | 2376 | 1978 | 2281 | 6635 | . |
| FL4X Marona | **4286** | 1388 | 952 | 6625 | 8612 |
| Jackson | 3469 | 1650 | 1462 | 6580 | 8644 |
| Andes | 3369 | 1556 | 1568 | 6493 | 8641 |
| FLR16 4X | 3431 | 1763 | 1135 | 6329 | . |
| FLP 16GRB2X | 3341 | 1474 | 1268 | 6083 | . |
| ME94 EXP | 2983 | 1666 | 1387 | 6036 | 8786 |
| Average | 3816 | 1787 | 1743 | 7346 [2] | 9331 |
| LSD at 10% Level | 653 | 332 | 501 | 890 | 673 |
| Std. Err. of Entry Mean | 279 | 142 | 214 | 380 | 288 |

1. Calhoun ryegrass was planted Februrary 1, 2017 due to the extreme drought in fall of 2016 for the Limestone Valley.
2. C.V. = 10.4%, and df for EMS = 185.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: February 1, 2017.
Seeding Rate: 50 lb/acre in 7" rows.
Soil Type: Waynesboro loam.
Soil Test: P = High, K = Very High, and pH = 6.3.
Fertilization: Preplant: 100 lb N, 50 lb P2O5, and 75 lb K2O/acre.
Topdress: 70 lb N/acre after 1st and 2nd harvests.
Management: Chisel plowed, disked, and rototilled; Harmony Extra used for weed control.
Previous Crop: Corn.

Test conducted by H. Jordan and G. Ware.

# Marianna, Florida:
# Ryegrass Forage Performance, 2016-2017

| | Dry Matter Yield | | | | | |
|---|---|---|---|---|---|---|
| | Harvest Date | | | | Season Totals | |
| Brand-Variety | 1/24/2017 | 2/20/2017 | 3/20/2017 | 4/20/2017 | 2017 | 2-Yr Avg |
| | lb/acre | | | | | |
| Andes | 1758 | **1347** | **1582** | **2991** | **7677** | **7298** |
| Nelson Tetraploid | **2534** | **1325** | 1359 | 2434 | **7652** | **7658** |
| FL AT-3 | 1540 | 1248 | **1721** | **3117** | **7625** | **.** |
| Earlyploid | 1802 | **1493** | **1661** | 2519 | **7474** | **7101** |
| FL C 4X | 1422 | **1538** | **1838** | **2619** | **7416** | . |
| FL Red 4x | 1558 | 1244 | 1407 | **3115** | **7323** | . |
| FLR16 4X | 1529 | 1174 | **1561** | **2932** | **7196** | . |
| FL AT1 | 1613 | 1173 | 1437 | **2899** | **7121** | **7472** |
| FL RSN 4X | 1442 | 1135 | **1567** | **2970** | **7113** | . |
| FL4X Marona | 1553 | **1491** | **1651** | 2369 | **7063** | 6414 |
| FL4X Marmid | 1383 | 1269 | **1735** | **2666** | **7051** | **7168** |
| Credence | 1455 | 1240 | **1592** | **2738** | **7024** | **7090** |
| Big Boss | 1476 | 1262 | **1569** | **2632** | **6938** | 7036 |
| FLP 16GRB2X | 1172 | 1140 | **1539** | **2967** | 6818 | . |
| Prine | 1799 | 1185 | 1251 | 2562 | 6796 | **7142** |
| TetraStar | 1694 | 1179 | 1398 | 2515 | 6786 | **7097** |
| Jumbo | **2074** | 1168 | 1172 | 2349 | 6762 | 6721 |
| Jackson | 1530 | 1034 | 1266 | **2918** | 6748 | 6600 |
| Attain | 1691 | 1205 | 1306 | 2526 | 6727 | **7421** |
| GALM1514 | 1452 | 1276 | 1454 | 2540 | 6721 | 6847 |
| TAMTBO | 1491 | 1096 | 1299 | **2803** | 6688 | 7029 |
| GA102A | 1491 | 1247 | 1357 | 2565 | 6660 | . |
| PS15 | 1959 | **1314** | 1042 | 2240 | 6555 | 6483 |
| Striker | 1639 | 1238 | 1319 | 2346 | 6542 | . |
| Kodiak | 1822 | 963 | 986 | **2753** | 6523 | . |
| Wax Marshall | 2030 | 906 | 1009 | 2570 | 6514 | 6708 |
| BAR LM 14167-1 | 1620 | 1126 | 1195 | 2528 | 6469 | . |
| GALM1502 | 1613 | 1204 | 1111 | 2486 | 6414 | . |
| FL PE 2x | 830 | 970 | **1533** | **3022** | 6355 | . |
| SARG-FL | 1677 | 1149 | 1139 | 2341 | 6307 | . |
| Fria | 1800 | 1160 | 1334 | 2003 | 6298 | 6449 |
| PS12 | **2129** | **1309** | 1117 | 1739 | 6293 | 6329 |
| ME94 EXP | 1188 | 836 | 1145 | **3079** | 6249 | 6293 |
| GALM1513 | 1533 | 1068 | 1293 | 2354 | 6248 | 6137 |
| Diamond T | 1574 | 1325 | 1063 | 2235 | 6195 | 6542 |
| Lonestar | 1890 | 1010 | 1148 | 2108 | 6156 | 6340 |
| BAR LM 14167-4 | 1382 | 1055 | 1103 | **2603** | 6142 | . |
| ME4 EXP | 1810 | 762 | 827 | **2722** | 6121 | 6445 |
| WMWL EXP | 1588 | 971 | 1137 | 2417 | 6113 | . |
| GALM1402 | 1447 | 1169 | 1169 | 2321 | 6105 | . |

# Marianna, Florida:
# Ryegrass Forage Performance, 2016-2017
# (Continued)

| | Dry Matter Yield | | | | | |
|---|---|---|---|---|---|---|
| | Harvest Date | | | | Season Totals | |
| Brand-Variety | 1/24/2017 | 2/20/2017 | 3/20/2017 | 4/20/2017 | 2017 | 2-Yr Avg |
| | lb/acre | | | | | |
| Winterhawk | 1024 | 828 | 1378 | **2796** | 6026 | 6580 |
| GALM1503 | 1550 | 1050 | 1193 | 2170 | 5963 | . |
| Grazer | **2043** | 1177 | 1047 | 1485 | 5751 | 5774 |
| BAR LM 15426 | 1204 | 863 | 1136 | 2543 | 5746 | 6410 |
| BAR LM 16498 | 1324 | 902 | 917 | 2573 | 5716 | . |
| Flying A | 1974 | 1056 | 932 | 1709 | 5671 | 5843 |
| Maximus | 2019 | 1207 | 922 | 1491 | 5639 | 5910 |
| M2CVS EXP | 1098 | 590 | 896 | **3049** | 5632 | 6199 |
| GALM1501 | 1014 | 1009 | **1665** | 1903 | 5591 | . |
| GA101M | **2149** | 1028 | 631 | 1612 | 5420 | . |
| Passerel Plus | 1579 | 900 | 729 | 2188 | 5395 | 5369 |
| GALM1515 | 1037 | 874 | 1260 | 2187 | 5358 | 5511 |
| GALM1401 | 1167 | 976 | 1319 | 1846 | 5307 | 5862 |
| GALM1403 | 1614 | 1107 | 1001 | 1450 | 5172 | 5723 |
| McKinley | 1657 | 713 | 707 | 2094 | 5170 | . |
| BAR LM 16488 | 1098 | 834 | 916 | 1956 | 4804 | . |
| Average | 1581 | 1109 | 1251 | 2440 | 6381 [1] | 6559 |
| LSD at 10% Level | 501 | 230 | 305 | 518 | 826 | 590 |
| Std. Err. of Entry Mean | 214 | 98 | 130 | 222 | 353 | 357 |

1. C.V. = 11.1%, and df for EMS = 165.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: October 25, 2016.
Seeding Rate: 50 lb/acre in 7" rows.
Soil Type: Chipola loamy sand.
Soil Test: P = Medium, K = Low, and pH = 5/6.
Fertilization: Preplant: 50 lb N, 20 lb $P_2O_5$, 60 lb $K_2O$, and 15 lb/acre S.
Topdress: 50 lb N/acre after 1st, 2nd, and 3rd harvests.
Management: Disked, moldboard plowed, and rototilled; Harmony Extra used for weed control.
Previous Crop: Corn.

Test conducted by J. Jones.

# Statewide Summary:
# Ryegrass Forage Performance, 2016-2017
# with Two- and Three-Year Averages

| | Dry Forage Yield | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tifton | | | Plains | | | Athens[1] | | | Calhoun[2] | | | Statewide | | |
| Brand-Variety | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg |
| | lb/acre | | | | | | | | | | | | | | |
| Andes | 4073 | **6055** | **7380** | 9322 | **7468** | 7867 | **14335** | **11478** | **10965** | 6493 | 8641 | **10135** | **8556** | 8410 | 9087 |
| Attain | 4051 | **5832** | **7358** | 8584 | **7408** | 8086 | 13417 | **11102** | **10639** | 8207 | **9977** | **10475** | **8565** | **8580** | 9140 |
| BAR LM 14167-1 | 3419 | . | . | 9092 | . | . | 13655 | . | . | 7715 | . | . | **8470** | . | . |
| BAR LM 14167-4 | 3768 | . | . | 9233 | . | . | 13267 | . | . | 7783 | . | . | **8513** | . | . |
| BAR LM 15426 | 2886 | **4312** | . | 9213 | **7541** | . | 13205 | **10873** | . | **9616** | **10461** | . | **8730** | 8297 | . |
| BAR LM 16488 | 2810 | . | . | 9000 | . | . | 13426 | . | . | 6635 | . | . | 7968 | . | . |
| BAR LM 16498 | 3321 | . | . | 8900 | . | . | 13601 | . | . | 8690 | . | . | **8628** | . | . |
| Becva | . | . | . | . | . | . | 12292 | . | . | 7752 | . | . | . | . | . |
| Big Boss | 4105 | **5973** | **7367** | 8698 | **7608** | 8001 | **14495** | **11604** | **10846** | 7006 | 9186 | **10178** | **8576** | **8593** | 9098 |
| Credence | 4171 | **5843** | . | 9052 | **7610** | . | 13704 | **11424** | . | 7585 | 9379 | . | **8628** | **8564** | . |
| Diamond T | 4116 | **5679** | **7056** | 8933 | **7742** | 7859 | **14080** | **11364** | **10694** | 7290 | 9205 | **10018** | **8605** | 8497 | 8907 |
| Earlyploid | **5053** | **6224** | **7776** | **9668** | **7721** | 7995 | 13194 | **11368** | **10552** | 7277 | 9410 | **10159** | **8798** | **8680** | 9121 |
| FL AT-3 | **4487** | . | . | 9441 | . | . | 13156 | . | . | 7285 | . | . | **8592** | . | . |
| FL AT1 | 4094 | **5848** | . | 8841 | **7545** | . | **14222** | **11587** | . | 6681 | 9040 | . | **8459** | 8505 | . |
| FL PE 2x | . | . | . | . | . | . | . | . | . | 6703 | . | . | . | . | . |
| FL Red 4x | . | . | . | . | . | . | . | . | . | 7347 | . | . | . | . | . |
| FL4X Marmid | 5010 | **6289** | **7924** | 8423 | **7082** | 7527 | 12632 | **10720** | **10067** | 7122 | 9014 | **9969** | **8297** | 8277 | 8872 |
| FL4X Marona | **4694** | **6169** | **7414** | **9610** | **7518** | 7999 | 12734 | **11237** | **10323** | 6625 | 8612 | **9210** | **8416** | 8384 | 8737 |
| FLP 16GRB2X | . | . | . | . | . | . | . | . | . | 6083 | . | . | . | . | . |
| FLR16 4X | . | . | . | . | . | . | . | . | . | 6329 | . | . | . | . | . |
| Flying A | **4999** | **6262** | **7786** | 8961 | **7638** | 8201 | 13565 | **11103** | **10518** | 7400 | 9016 | **9760** | 8731 | 8505 | 9066 |
| Fria | 4160 | **5690** | **7106** | 8829 | **7175** | 8200 | 13011 | **11123** | **10579** | 6963 | 9250 | **10734** | 8241 | 8309 | 9155 |
| GA101M | 3463 | . | . | 8546 | . | . | 13556 | . | . | 8445 | . | . | **8502** | . | . |
| GA102A | **4879** | . | . | 9201 | . | . | 13383 | . | . | 6823 | . | . | **8571** | . | . |
| GALM1401 | **4824** | **5707** | **7359** | 8969 | **7140** | 7717 | 13158 | **11479** | **10824** | 6672 | 8949 | **9774** | **8406** | 8319 | 8918 |
| GALM1402 | **4487** | . | . | 9203 | . | . | 13667 | . | . | 7584 | . | . | 8735 | . | . |
| GALM1403 | 4225 | **5619** | **7012** | 8866 | **7275** | 7733 | 12748 | **11252** | **10364** | 7571 | 9602 | **10125** | 8352 | 8437 | 8808 |
| GALM1501 | 4215 | . | . | 8880 | . | . | 12603 | . | . | 6707 | . | . | 8101 | . | . |
| GALM1502 | 3779 | . | . | 9025 | . | . | 13000 | . | . | 7787 | . | . | **8398** | . | . |
| GALM1503 | **4650** | . | . | 8205 | . | . | 11986 | . | . | 7550 | . | . | 8097 | . | . |
| GALM1513 | 3909 | **5401** | . | 9058 | **7375** | . | 12215 | **10845** | . | 8306 | **10021** | . | **8372** | 8410 | . |
| GALM1514 | 3910 | **5636** | . | 8520 | **7366** | . | 13439 | **11082** | . | 7871 | 9624 | . | **8435** | 8427 | . |
| GALM1515 | 3921 | **5189** | . | 8661 | **6918** | . | 12282 | **10672** | . | 7184 | 8869 | . | 8012 | 7912 | . |
| Grazer | **4563** | **5946** | **7023** | 9133 | **7345** | 7627 | 12678 | **10779** | **10053** | 6789 | 9076 | **10181** | **8291** | 8286 | 8721 |
| Hostyn | . | . | . | . | . | . | 12658 | . | . | 7096 | . | . | . | . | . |
| Jackson | 3572 | **5183** | **6945** | 9297 | **7165** | 7540 | 12706 | **11077** | **10639** | 6580 | 8644 | **9704** | 8039 | 8017 | 8707 |
| Jumbo | 4041 | **6017** | **7268** | 9245 | **7852** | 8213 | 13019 | **10986** | **10626** | 7940 | 9609 | **10686** | **8561** | **8616** | 9198 |
| Kodiak | 3300 | . | . | 8943 | . | . | 12778 | . | . | 6920 | . | . | 7985 | . | . |
| Lonestar | 3714 | **5194** | **6699** | **9611** | **7845** | 8104 | 13369 | **11322** | **10710** | 7671 | 9389 | **9932** | **8591** | 8438 | 8861 |
| M2CVS EXP | 2962 | **5080** | **6764** | **9630** | **7628** | **8398** | **14673** | **11941** | **11320** | 6689 | 9039 | **10520** | **8489** | 8422 | 9250 |

# Statewide Summary: Ryegrass Forage Performance, 2016-2017 with Two- and Three-Year Averages (Continued)

| | Dry Forage Yield | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Tifton | | | Plains | | | Athens[1] | | | Calhoun[2] | | | Statewide | | |
| Brand-Variety | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg | 2017 | 2-Yr Avg | 3-Yr Avg |
| | lb/acre | | | | | | | | | | | | | | |
| ME4 EXP | 3343 | **5733** | **7461** | **10007** | **7888** | **8663** | **14088** | **11556** | **11371** | 7583 | 9460 | **10707** | **8755** | **8659** | **9551** |
| ME94 EXP | 3572 | **5609** | **7109** | **8944** | **7301** | 8015 | 12983 | **11033** | **10608** | 6036 | 8786 | **10235** | 7884 | 8182 | 8992 |
| Maximus | 3877 | **5391** | **6866** | 9416 | **7746** | 8021 | **13992** | **11894** | **10926** | 8428 | **9806** | **10593** | **8928** | **8709** | 9102 |
| McKinley | 3256 | . | . | 8685 | . | . | **14103** | . | . | 7050 | . | . | **8273** | . | . |
| Nelson Tetraploid | 4007 | **5771** | **7316** | **9529** | **8139** | **8599** | 13940 | **11561** | **11087** | 8098 | 9782 | **10729** | **8893** | **8813** | **9433** |
| PS12 | 4367 | **6061** | . | **9561** | **7730** | . | 13942 | **11420** | . | 7113 | 9318 | . | **8746** | **8632** | . |
| PS15 | 3942 | **5636** | . | 9450 | **7849** | . | **14959** | **12178** | . | 7495 | 9627 | . | **8961** | **8822** | . |
| Passerel Plus | 2799 | **5369** | **6990** | 8844 | **7312** | 7668 | **14461** | **11703** | **10909** | 7560 | 9343 | **10005** | **8416** | 8432 | 8893 |
| Prine | 4182 | **5467** | **7003** | 9057 | **7919** | **8353** | 13562 | **11670** | **11121** | 8120 | **9918** | **10681** | **8730** | **8743** | **9289** |
| RMexp2013B | 4149 | . | . | 8797 | . | . | 13051 | . | . | 7924 | . | . | **8480** | . | . |
| SARG-FL | **4519** | . | . | 8795 | . | . | 13533 | . | . | 7334 | . | . | **8545** | . | . |
| Striker | **4813** | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| TAMTBO | 4214 | **5946** | **7361** | **9741** | **8007** | **8539** | **14293** | **11935** | **11440** | 6823 | 9309 | **10387** | **8768** | **8799** | **9432** |
| TetraStar | 3888 | **5500** | **7239** | 10099 | **8259** | **8456** | 13942 | **11525** | **10647** | 7691 | 9766 | **10830** | **8905** | **8762** | 9293 |
| WMWL EXP | 3136 | . | . | 9191 | . | . | 12870 | . | . | 7680 | . | . | 8219 | . | . |
| Wax Marshall | 3245 | **5385** | **7072** | **9771** | **7886** | **8416** | **13967** | **11994** | **11616** | 6964 | 9178 | **10716** | **8487** | **8611** | **9455** |
| Winterhawk | 3659 | **5630** | **7178** | 8582 | **7057** | 7824 | 12425 | **10421** | **10253** | 6736 | 8948 | **10622** | 7850 | 8014 | 8969 |
| Average | 3972 | 5666 | 7224 | 9105 | 7560 | 8062 | 13385 | 11333 | 10758 | 7346 | 9331 | 10272 | 8471 | 8472 | 9079 |
| LSD at 10% Level | 615 | NS[3] | NS | 632 | NS | 401 | 1006 | NS | NS | 890 | 673 | NS | 712 | 272 | 277 |
| Std. Error of Entry Mean | 263 | 243 | 210 | 170 | 166 | 172 | 428 | 286 | 229 | 380 | 288 | 265 | 173 | 125 | 110 |

1. Athens 2017 data with Griffin data for 2016 and 2015. Griffin provided Piedmont region data in previous years.
2. Calhoun ryegrass was planted February 1, 2017 due to the extreme drought in the fall of 2016 for Limestone Valley.
3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

**Bolding** indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

# Sources of Seed
# for the 2016-2017 Small Grain Performance Tests

| Crop | Variety – Seed Source |
|---|---|

**Wheat**

- **AGS and GrazeAll** - AGSouth Genetics, LLC, PO Box 72246, Albany, GA 31708.
- **Dyna-Gro and WX16722** - Dyna-Gro Seed, 114 W. 12th Street, Tifton, GA 31794.
- **GA, GAJT, and UGA** - University of Georgia - Griffin Campus, Crop & Soil Sciences Dept., 1109 Experiment Street, Griffin, GA 30223-1797.
- **GA-Gore** - Georgia Seed Development Commission, 2420 S. Milledge Avenue, Athens, GA 30605.
- **LA** - Louisiana State University, SPESS, 221 M.B. Sturgis Hall, Baton Rouge, LA 70808.
- **NC** - North Carolina State University, Box 7629, Raleigh, NC 27511.
- **OK11754WF** – Oklahoma Foundation Seed, 2902 W. 6th Avenue, Stillwater, OK 74074.
- **P, PGX, #BOSS, #BULLET, #TURBO, AND #WARRIOR** – Progeny Ag Products, 1529 Highway 193 South, Wynne, AR 72396.
- **Pioneer** - Dupont Pioneer, 425 Abbeydale Way, Columbia, SC 29229.
- **SCLA and W 0100** – Clemson University, 179 Old Cherry Road, Clemson, SC 29634.
- **SH** – Meherrin Agricultural & Chemical Company, 413 Main Street, Severn, NC 27877.
- **SS 8415 and SRW 9410** – Croplan by Winfield, 1080 County Road F West, MS5850, Shore View, MN 55126.
- **SX and SY** – Syngenta Seeds Inc., Clemmons & Hamner Seed Inc., 5578 County Road 34, Killen, AL 35645.
- **TX-EL2** – Texas A&M AgriLife Research, 2600 S. Neal, Commerce, TX 75429.
- **USG** - UniSouth Genetics, Inc., 3205-C Highway 46 South, Dickson, TN 37055.
- **VA and Hilliard** - Virginia Tech/EVAREC, 2229 Menokin Road, Warsaw, VA 22572.

**Triticale**

- **FL** - University of Florida, 155 Research Road, Quincy, FL 32351.
- **NF 201** - Oklahoma Genetics Inc., PO Box 2113, Stillwater, OK 74076-2113.
- **NS 202567 and Trical 342** – Northern Seed LLC, 2355 Rice Pike, Union, KY 41091.
- **SS** - Southern States Coop, 6606 West Broad Street, Richmond, VA 23230.

# Sources of Seed
# for the 2016-2017 Small Grain Performance Tests (Continued)

| Crop | Variety – Seed Source |
|---|---|
| **Rye** | - **Bates RS4** - Athens Seed Co., PO Box 387, Watkinsville, GA 30677. |
| | - **Elbon, Maton, and Oklon** - Oklahoma Foundation Seed, 2902 W. 6th Avenue, Stillwater, OK 74074. |
| | - **FL and Florida 401** - University of Florida, 155 Research Road, Quincy, FL 32351. |
| | - **Maton II** - Oklahoma Genetics Inc., PO Box 2113, Stillwater, OK 74076-2113. |
| | - **NF** - Samuel Roberts Noble Foundation, 2510 Sam Noble Parkway, Ardmore, OK 73401. |
| | - **Wrens Abruzzi** - Georgia Seed Development Commission, 2420 S. Milledge Avenue, Athens, GA 30605. |
| **Oat** | - **FL0914-U2** - University of Florida, 3105 McCarty Hall, Gainesville, FL 32611. |
| | - **Graham, SCLA 0100214, and SCOP** - Clemson University, 179 Old Cherry Road, Clemson, SC 29634. |
| | - **Horizon** – Plantation Seed Conditioners, PO Box 398, Newton, GA 39870. |
| | - **LA** - Louisiana State University, SPESS, 104 M.B. Sturgis Hall, Baton Rouge, LA 70808. |
| | - **Legend 567** - Mayo Fertilizer, Inc., 300 SE Clyde Avenue, Mayo, FL 32066. |
| | - **NC** - North Carolina State University, Box 7629, Raleigh, NC 27511. |
| | - **NF 402** - Oklahoma Genetics Inc., PO Box 2113, Stillwater, OK 74076-2113. |
| | - **Okay** - Oklahoma Foundation Seed, 2902 W. 6th Avenue, Stillwater, OK 74074. |
| | - **RAM** - Ragan and Massey, Inc., 100 Ponchatoula Parkway, Ponchatoula, LA 70454. |
| | - **SS** - Southern States Coop, 6606 West Broad Street, Richmond, VA 23230. |
| | - **TAMO** - Specialty Seed Inc., PO Box 605, Brandon, MS 39043. |
| | - **TX** - Texas A&M University, 2747 TAMUS, 370 Olsen Blvd., College Station, TX 77843-2474. |
| **Barley** | - **Amaze 10, Secretariat, Thoroughbred, VA11B-141, and Violetta** - Virginia Tech/EVAREC, 2229 Menokin Road, Warsaw, VA 22572. |

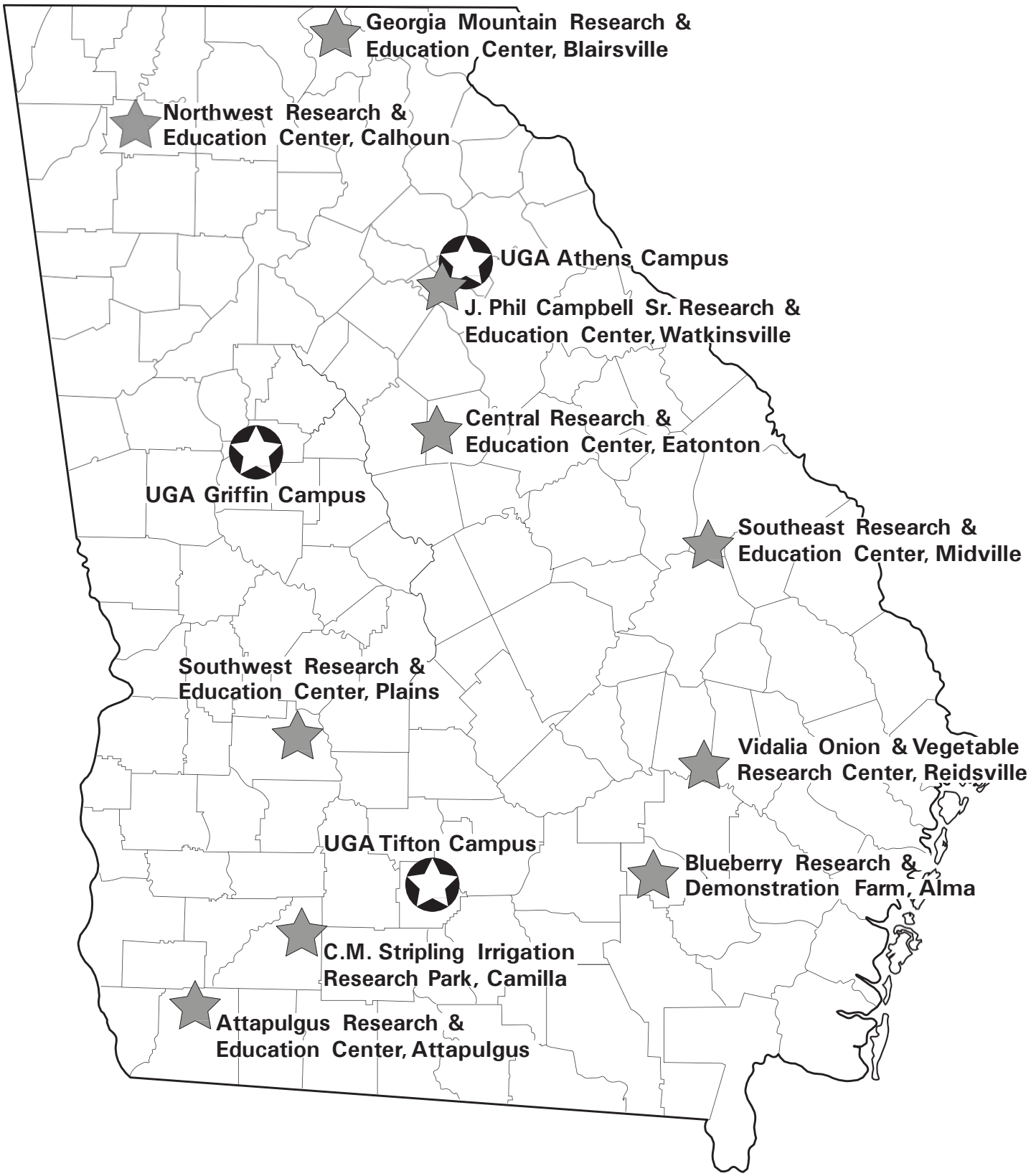
# Sources of Seed
# for the 2016-2017 Small Grain Performance Tests (Continued)

| Crop | Variety – Seed Source |
|---|---|

**Ryegrass**

- **Andes, Becva, Credence, Hostyn, Kodiak, McKinley, and Striker** - DLF Pickseed USA, PO Box 229, Halsey, OR 97348.
- **Attain, Big Boss, and SARG-FL** - Smith Seed Service, PO Box 288, Halsey, OR 97348.
- **BAR, Jumbo, and Maximas** – Barenbrug USA, PO Box 239, Tangent, OR 97389.
- **Diamond T, Flying A, TAMTBO, and Winterhawk** - Oregro Seeds, Inc., 33080 Red Bridge Road, Albany, OR 97377.
- **Earlyploid, Prine, and RMexp2013B** - Ragan and Massey, Inc., 100 Ponchatoula Parkway, Ponchatoula, LA 70454.
- **FL AT and FL4X** - University of Florida, 155 Research Road, Quincy, Fl 32351.
- **FL, FL C 4X, FLP16GRB2X, FL PE 2X, FLR16 4X, FLRSN4X, and FL RED 4X** - University of Florida, 6100 NW 156 Avenue, Gainesville, FL 32653.
- **Fria** - Allied Seed LLC, 1108 Hilldale Drive, Macon, MO 63552.
- **GA, GALM, and Grazer** - University of Georgia, 111 Riverbend Road, Athens, GA 30602.

  **Lonestar and TetraStar** - Grassland Oregon, Inc., 4455 60th Avenue NE, Salem, OR 97305.
- **Jackson, ME4, ME94, M2CVS, Nelson, Wax Marshall, and WMWL** - The Wax Company, Inc., PO Box 60, Amory, MS 38821.
- **Passerel Plus and PS** - Pennington Seed, 1280 Atlanta Highway, Madison, GA 30650.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- Certified seed must meet high quality standards as to germination and purity.
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**Annual Publication 100-9** **July 2017**

Published by the University of Georgia in cooperation with Fort Valley State University, the U.S. Department of Agriculture, and counties of the state. For more information, contact your local UGA Cooperative Extension office.