

Tifton, Georgia: Oat Grain Performance, 2009-2010

| Brand-Variety | Yield ¹ | | Rank | 2010 Data | | | | | |
|-------------------------|--------------------|--------------|----------------|--------------------|-------|----|-------|--------|--------|
| | 3-Year | 2-Year | | Yield ¹ | Test | Ht | Lodg. | Winter | Head |
| | Average | Average | | | Wt | | | | |
| | ----- | bu/acre | ----- | bu/acre | lb/bu | in | % | % | mo/day |
| Horizon 201 | 139.9 | 132.2 | 1 | 155.9 | 30.5 | 54 | 0 | 100 | 04/11 |
| Horizon 270 | 128.8 | 119.4 | 4 | 138.0 | 32.2 | 42 | 0 | 100 | 04/13 |
| Plot Spike LA9339 | 124.4 | 115.5 | 9 | 127.3 | 31.9 | 47 | 0 | 100 | 04/20 |
| TAMO 406 | 123.6 | 115.5 | 5 ^T | 137.2 | 32.9 | 50 | 0 | 100 | 04/17 |
| RAM LA99016 | 120.1 | 105.0 | 11 | 124.6 | 31.7 | 50 | 0 | 100 | 04/13 |
| NC03-2421 | . | 130.6 | 2 | 144.4 | 32.7 | 44 | 0 | 100 | 04/15 |
| LA976-59-S1 | . | 116.2 | 6 | 136.2 | 32.1 | 42 | 0 | 100 | 04/15 |
| TX05CS556 | . | 111.9 | 5 ^T | 137.2 | 30.7 | 43 | 0 | 100 | 04/14 |
| FL99153-45-S1 | . | 110.0 | 8 | 128.3 | 34.7 | 45 | 0 | 100 | 04/14 |
| TX05CS347-1 | . | 106.5 | 10 | 124.9 | 31.5 | 44 | 0 | 100 | 04/15 |
| LA03046-7-S1 | . | 106.4 | 7 | 128.9 | 32.3 | 41 | 0 | 100 | 04/15 |
| LA03063-S4 | . | 100.5 | 12 | 122.4 | 31.6 | 44 | 0 | 100 | 04/10 |
| NC02-8331 | . | . | 3 | 141.7 | 31.5 | 39 | 0 | 100 | 04/18 |
| SS76-40 | . | . | 13 | 101.9 | 30.4 | 44 | 0 | 100 | 04/19 |
| Average | 127.4 | 114.1 | | 132.1 ² | 31.9 | 45 | 0 | 100 | 04/15 |
| LSD at 10% Level | 11.2 | 12.2 | | 20.2 | 1.2 | 4 | - | - | 01 |
| Std. Err. of Entry Mean | 4.7 | 5.2 | | 8.5 | 0.5 | 2 | - | - | 01 |

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.

2. C.V. = 12.9%, and df for EMS = 39.

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

Planted: November 18, 2009.

Harvested: May 26, 2010.

Seeding Rate: 11 seeds per 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 P₂O₅, and 50 lb K₂O/acre.

Topdress: 108 lb N/acre.

Management: Disked, chisel plowed and rototilled.

Previous Crop: Small grain.

Test conducted by A. Coy, R. Brooke and D. Dunn.

Plains, Georgia: Oat Grain Performance, 2009-2010

| Brand-Variety | Yield ¹ | | Rank | 2010 Data | | | | | |
|-------------------------|--------------------|--------------|---------|--------------------|------|----|-------|--------|-------|
| | 3-Year | 2-Year | | Yield ¹ | Test | Ht | Lodg. | Winter | Head |
| | Average | Average | | | | | | | |
| ----- bu/acre ----- | | | bu/acre | lb/bu | | % | % | mo/day | |
| Horizon 201 | 138.7 | 125.4 | 2 | 117.7 | 25.1 | 37 | 0 | 100 | 04/15 |
| Horizon 270 | 132.1 | 110.3 | 11 | 99.0 | 30.9 | 31 | 0 | 100 | 04/18 |
| Plot Spike LA9339 | 127.9 | 122.6 | 12 | 97.6 | 30.7 | 36 | 0 | 100 | 04/23 |
| RAM LA99016 | 122.1 | 107.9 | 4 | 109.1 | 28.2 | 36 | 0 | 100 | 04/17 |
| TAMO 406 | 119.8 | 113.4 | 9 | 101.7 | 29.7 | 35 | 0 | 100 | 04/19 |
| NC03-2421 | . | 120.8 | 3 | 112.8 | 33.0 | 33 | 0 | 100 | 04/18 |
| LA976-59-S1 | . | 118.8 | 1 | 118.9 | 32.1 | 33 | 0 | 100 | 04/18 |
| FL99153-45-S1 | . | 114.9 | 5 | 108.4 | 35.9 | 33 | 0 | 100 | 04/18 |
| LA03046-7-S1 | . | 113.7 | 6 | 107.4 | 31.4 | 32 | 0 | 100 | 04/19 |
| TX05CS347-1 | . | 110.2 | 8 | 101.9 | 31.6 | 31 | 0 | 100 | 04/19 |
| LA03063-S4 | . | 107.6 | 10 | 100.7 | 30.9 | 34 | 0 | 100 | 04/11 |
| TX05CS556 | . | 102.6 | 14 | 84.0 | 27.3 | 30 | 0 | 100 | 04/17 |
| NC02-8331 | . | . | 7 | 107.3 | 32.3 | 29 | 0 | 100 | 04/20 |
| SS76-40 | . | . | 13 | 87.4 | 28.6 | 35 | 0 | 100 | 04/23 |
| Average | 128.1 | 114.0 | | 103.8 ² | 30.5 | 33 | 0 | 100 | 04/18 |
| LSD at 10% Level | N.S. ³ | N.S. | | 17.1 | 3.3 | 2 | - | - | 01 |
| Std. Err. of Entry Mean | 3.0 | 4.8 | | 7.2 | 0.4 | 1 | - | - | 01 |

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.

2. C.V. = 13.8%, and df for EMS = 39.

3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, a 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 20, 2009.

Harvested: June 4, 2010.

Seeding Rate: 11 seeds per foot in 7" rows.

Soil Type: Greenville sandy loam.

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

Fertilization: Preplant: 20 lb N, 88 lb P₂O₅, and 24 lb K₂O/acre.

Topdress: 80 lb N/acre.

Management: Disked and rototilled.

Previous Crop: Peanuts.

Test conducted by A. Coy, R. Brooke, D. Dunn and R. Pines.

Midville, Georgia: Oat Grain Performance, 2009-2010

| Brand-Variety | Yield ¹ | | 2010 Data | | | | | | |
|---------------|--------------------|---------|-----------|--------------------|-------|----|-------|----------|--------|
| | 3-Year | 2-Year | Rank | Yield ¹ | Test | Ht | Lodg. | Winter | Head |
| | Average | Average | | bu/acre | Wt | in | % | Survival | Date |
| | ----- | bu/acre | ----- | bu/acre | lb/bu | in | % | % | mo/day |

Oat varieties were planted at this location on December 1, 2009. However, extensive damage from later planting, excessive rainfall, water-logged and compacted soil conditions caused very low yields and considerable variation in performance among plots within the test. After careful analysis and review of the data, it is the opinion of the editors that the results of this trial may not accurately reflect the performance potential of all test entries. Since this data could be misleading if used in making decisions concerning variety selection, we have chosen not to present the results in this publication.

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.

Planted: December 1, 2009

Harvested: June 8, 2010.

Seeding Rate: 11 seeds per foot in 7" rows.

Soil Type: Dothan loamy sand.

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

Fertilization: Preplant: 18 lb N, 46 lb P₂O₅, and 60 lb K₂O/acre.

Topdress: 80 lb N/acre.

Management: Disked, chisel plowed and field conditioned; Harmony Extra used for weed control.

Previous Crop: Soybeans.

Test conducted by A. Coy, R. Brooke and D. Dunn.

Griffin, Georgia: Oat Grain Performance, 2009-2010

| Brand-Variety | Yield ¹ | | 2010 Data | | | | | | |
|-------------------------|---------------------|--------------|-----------|--------------------|-------|----|-------|--------|--------|
| | 3-Year | 2-Year | Rank | Yield ¹ | Test | Ht | Lodg. | Winter | Head |
| | Average | Average | | | | | | | |
| | ----- bu/acre ----- | | | bu/acre | lb/bu | in | % | % | mo/day |
| Plot Spike LA9339 | 132.6 | 131.1 | 1 | 123.6 | 36.3 | 42 | 0 | 100 | 05/02 |
| Horizon 201 | 130.4 | 122.0 | 13 | 90.6 | 34.6 | 45 | 0 | 100 | 04/26 |
| Horizon 270 | 127.7 | 123.6 | 8 | 108.9 | 35.7 | 36 | 0 | 100 | 04/26 |
| RAM LA99016 | 127.6 | 122.1 | 11 | 101.1 | 36.1 | 43 | 0 | 100 | 04/25 |
| TAMO 406 | 109.5 | 111.2 | 7 | 111.4 | 36.1 | 43 | 0 | 100 | 05/01 |
| SS76-40 | 94.3 | 75.1 | 14 | 23.8 | 31.9 | 36 | 0 | 100 | 05/02 |
| TX05CS556 | . | 135.2 | 4 | 118.4 | 35.4 | 38 | 0 | 100 | 04/26 |
| TX05CS347-1 | . | 129.2 | 2 | 123.1 | 37.6 | 39 | 0 | 100 | 05/02 |
| NC03-2421 | . | 128.0 | 12 | 96.9 | 36.1 | 38 | 0 | 100 | 04/27 |
| FL99153-45-S1 | . | 126.8 | 5 | 117.8 | 37.9 | 41 | 0 | 100 | 04/25 |
| LA03063-S4 | . | 124.2 | 3 | 119.4 | 36.4 | 40 | 0 | 100 | 04/25 |
| LA976-59-S1 | . | 123.2 | 6 | 111.6 | 36.0 | 38 | 0 | 100 | 05/01 |
| LA03046-7-S1 | . | 121.3 | 9 | 107.5 | 35.5 | 38 | 0 | 100 | 05/01 |
| NC02-8331 | . | . | 10 | 103.7 | 34.7 | 34 | 0 | 100 | 05/01 |
| Average | 120.3 | 121.0 | | 104.1 ² | 35.7 | 39 | 0 | 100 | 04/28 |
| LSD at 10% Level | N.S. ³ | N.S. | | 16.2 | 0.9 | 2 | - | - | 02 |
| Std. Err. of Entry Mean | 3.8 | 5.6 | | 6.8 | 0.4 | 1 | - | - | 01 |

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.

2. C.V. = 13.1%, and df for EMS = 39.

3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, a 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, 2009.

Harvested: June 2, 2010.

Seeding Rate: 11 seeds per foot in 7" rows.

Soil Type: Cecil sandy loam.

Soil Test: P = Low, K = High, and pH = 6.3.

Fertilization: Preplant: 20 lb N, 40 lb P₂O₅, and 60 lb K₂O/acre.

Topdress: 65 lb N/acre.

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

Previous Crop: Wheat.

Test conducted by J. Gassett and G. Ware.

Calhoun, Georgia: Oat Grain Performance, 2009-2010

| Brand-Variety | Yield ¹ | | 2010 Data | | | | | | |
|-------------------------|--------------------|--------------|-----------|--------------------|-------|----|-------|--------|--------|
| | 3-Year | 2-Year | Rank | Yield ¹ | Test | Ht | Lodg. | Winter | Head |
| | Average | Average | | | | | | | |
| | ----- | bu/acre | ----- | bu/acre | lb/bu | in | % | % | mo/day |
| Horizon 201 | 103.7 | 113.7 | 4 | 117.8 | 33.5 | 51 | 73 | 100 | 04/23 |
| Plot Spike LA9339 | 103.4 | 110.5 | 3 | 120.1 | 36.0 | 44 | 65 | 100 | 04/26 |
| Horizon 270 | 96.1 | 106.1 | 8 | 99.6 | 34.1 | 40 | 18 | 100 | 04/22 |
| SS76-40 | 88.2 | 88.5 | 1 | 126.8 | 35.7 | 42 | 3 | 100 | 04/20 |
| RAM LA99016 | 85.4 | 87.6 | 13 | 94.9 | 35.2 | 47 | 40 | 100 | 04/19 |
| TAMO 406 | 85.0 | 94.5 | 9 | 99.5 | 34.5 | 43 | 89 | 100 | 04/24 |
| NC03-2421 | . | 110.1 | 2 | 121.4 | 36.9 | 41 | 20 | 100 | 04/23 |
| TX05CS347-1 | . | 106.6 | 6 | 108.6 | 35.6 | 43 | 35 | 100 | 04/21 |
| LA03063-S4 | . | 104.3 | 7 | 108.0 | 34.0 | 43 | 51 | 100 | 04/22 |
| LA03046-7-S1 | . | 101.4 | 11 | 97.5 | 34.1 | 41 | 26 | 100 | 04/23 |
| TX05CS556 | . | 100.7 | 5 | 110.8 | 33.7 | 40 | 49 | 100 | 04/21 |
| LA976-59-S1 | . | 98.5 | 12 | 95.0 | 33.8 | 40 | 5 | 100 | 04/25 |
| FL99153-45-S1 | . | 85.9 | 14 | 81.5 | 35.3 | 42 | 64 | 100 | 04/21 |
| NC02-8331 | . | . | 10 | 98.9 | 34.4 | 40 | 30 | 100 | 04/23 |
| Average | 93.6 | 100.6 | | 105.7 ² | 34.8 | 42 | 40 | 100 | 04/22 |
| LSD at 10% Level | N.S. ³ | N.S. | | 17.3 | 0.9 | 3 | 25 | - | 03 |
| Std. Err. of Entry Mean | 4.7 | 5.8 | | 7.2 | 0.4 | 1 | 10 | - | 01 |

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.

2. C.V. = 13.7%, and df for EMS = 39.

3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, a 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 22, 2009.

Harvested: June 15, 2010.

Seeding Rate: 11 seeds per foot in 7" rows.

Soil Type: Wax loam.

Soil Test: P = High, K = Very High, and pH = 6.0.

Fertilization: Preplant: 50 lb N, 50 lb P₂O₅, and 75 lb K₂O/acre.

Topdress: 70 lb N/acre.

Management: Chisel plowed, disked and rototilled.

Previous Crop: Soybeans.

Test conducted by J. Gassett, G. Ware and J. Stubbs.

Marianna, Florida: Oat Grain Performance, 2009-2010

| Brand-Variety | Yield ¹ | | 2010 Data | | | | | | |
|-------------------------|--------------------|-------------------|-----------|--------------------|------|----|-------|--------|-------|
| | 3-Year | 2-Year | Rank | Yield ¹ | Test | Ht | Lodg. | Winter | Head |
| | Average | Average | | | | | | | |
| ----- bu/acre ----- | | | | | | | | | |
| Horizon 201 | 108.2 | 125.2 | 1 | 120.0 | 30.7 | 42 | 0 | 100 | 04/19 |
| RAM LA99016 | 92.4 | 102.8 | 4 | 94.4 | 31.2 | 39 | 0 | 100 | 04/21 |
| Plot Spike LA9339 | 89.8 | 105.7 | 11 | 79.5 | 31.5 | 39 | 0 | 100 | 04/24 |
| Horizon 270 | 89.7 | 105.0 | 10 | 84.8 | 27.5 | 32 | 0 | 100 | 04/26 |
| TAMO 406 | 83.2 | 97.3 | 8 | 85.9 | 31.5 | 39 | 0 | 100 | 04/23 |
| NC03-2421 | . | 117.0 | 6 | 88.0 | 29.2 | 35 | 0 | 100 | 04/23 |
| TX05CS347-1 | . | 109.1 | 5 | 91.8 | 33.0 | 33 | 0 | 100 | 04/21 |
| FL99153-45-S1 | . | 107.4 | 2 | 108.8 | 33.6 | 37 | 0 | 100 | 04/21 |
| LA976-59-S1 | . | 105.0 | 9 | 85.8 | 28.4 | 35 | 0 | 100 | 04/26 |
| LA03046-7-S1 | . | 98.6 | 13 | 74.8 | 29.5 | 34 | 0 | 100 | 04/26 |
| TX05CS556 | . | 94.9 | 7 | 87.8 | 28.2 | 33 | 0 | 100 | 04/23 |
| LA03063-S4 | . | 93.8 | 12 | 75.7 | 31.0 | 33 | 0 | 100 | 04/15 |
| NC02-8331 | . | . | 3 | 99.3 | 30.5 | 31 | 0 | 100 | 04/27 |
| SS76-40 | . | . | 14 | 27.7 | 27.7 | 32 | 0 | 100 | 04/28 |
| Average | 92.7 | 105.1 | | 86.0 ² | 30.3 | 35 | 0 | 100 | 04/23 |
| LSD at 10% Level | 6.3 | N.S. ³ | | 10.5 | - | 2 | - | - | 01 |
| Std. Err. of Entry Mean | 2.6 | 3.2 | | 4.4 | - | 1 | - | - | 01 |

1. Yields calculated as 32 pounds per bushel at 12.5% moisture.

2. C.V. = 10.3%, and df for EMS = 39.

3. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, a 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: January 12, 2010.

Harvested: June 10, 2010.

Seeding Rate: 11 seeds per foot in 7" rows.

Soil Type: Orangeburg loamy sand.

Soil Test: P = Medium, K = Low, and pH = 6.2.

Fertilization: Preplant: 54 lb N, 27 lb P₂O₅, and 54 lb K₂O/acre.

Topdress: 50 lb N/acre.

Management: Disked; Buctril and Harmony Extra used for weed control.

Test conducted by J. Jones.

Summary of Oat Yields: Georgia, 2009-2010 with Two- and Three-Year Averages

| Brand-Variety | Yield ¹ | | | | | | | | |
|-------------------------|---------------------|-------------------|--------------|--------------------|-------------------|--------------|-------------------|-------------------|--------------|
| | South ² | | | North ³ | | | Statewide | | |
| | 3-Year Average | 2-Year Average | 2010 | 3-Year Average | 2-Year Average | 2010 | 3-Year Average | 2-Year Average | 2010 |
| | ----- bu/acre ----- | | | | | | | | |
| FL99153-45-S1 | . | 112.4 | 118.4 | . | 106.4 | 99.6 | . | 109.4 | 109.0 |
| Horizon 201 | 139.3 | 128.8 | 136.8 | 117.1 | 117.8 | 104.2 | 128.2 | 123.3 | 120.5 |
| Horizon 270 | 130.4 | 114.9 | 118.5 | 111.9 | 114.9 | 104.2 | 121.2 | 114.9 | 111.4 |
| LA03046-7-S1 | . | 110.1 | 118.2 | . | 111.3 | 102.5 | . | 110.7 | 110.3 |
| LA03063-S4 | . | 104.0 | 111.5 | . | 114.3 | 113.7 | . | 109.1 | 112.6 |
| LA976-59-S1 | . | 117.5 | 127.5 | . | 110.8 | 103.3 | . | 114.2 | 115.4 |
| NC02-8331 | . | . | 124.5 | . | . | 101.3 | . | . | 112.9 |
| NC03-2421 | . | 125.7 | 128.6 | . | 119.0 | 109.1 | . | 122.4 | 118.9 |
| Plot Spike LA9339 | 126.2 | 119.0 | 112.4 | 118.0 | 120.8 | 121.8 | 122.1 | 119.9 | 117.1 |
| RAM LA99016 | 121.1 | 106.5 | 116.8 | 106.5 | 104.8 | 98.0 | 113.8 | 105.7 | 107.4 |
| SS76-40 | . | . | 94.6 | 91.3 | 81.8 | 75.3 | . | . | 85.0 |
| TAMO 406 | 121.7 | 114.4 | 119.4 | 97.2 | 102.8 | 105.4 | 109.5 | 108.6 | 112.4 |
| TX05CS347-1 | . | 108.3 | 113.4 | . | 117.9 | 115.9 | . | 113.1 | 114.6 |
| TX05CS556 | . | 107.2 | 110.6 | . | 117.9 | 114.6 | . | 112.6 | 112.6 |
| Average | 127.7 | 114.1 | 117.9 | 107.0 | 110.8 | 104.9 | 119.0 | 113.7 | 111.4 |
| LSD at 10% Level | 6.6 | 8.2 | 13.1 | N.S. ⁴ | N.S. | N.S. | 5.9 | 6.6 | N.S. |
| Std. Err. of Entry Mean | 2.8 | 3.5 | 5.6 | 4.7 | 5.0 | 7.0 | 2.5 | 2.8 | 4.5 |

1. Yields calculated at 32 pounds per bushel at 12.5% moisture.
 2. Tifton and Plains.
 3. Griffin and Calhoun.
 4. The F-test indicated no statistical difference at the alpha = 0.10 probability level; therefore, a 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).