

Plains, Georgia: Spring Canola Variety Trial, 2007-2008

| Company or Brand Name | Variety | Yield ¹ | | | Fatty Acid Profile ² | | | Plant | | | | | |
|--------------------------|-----------------|--------------------|---------------------|-------------|---------------------------------|------------|----------------|---------------|------------------|-----------|------------------------------|------------------------------|---------------------------|
| | | 2008 | 2-Yr Avg lb/A | 3-Yr Avg | Oil % | Oleic % | Linolenic % | Bloom date | Maturity date | Ht. in | Lodg. ³ rating | Stand ⁴ rating | Shatter ⁵ % |
| UGA | G03036.D3 | 1829 | 1874 | 2167 | . | 62.3 | 9.8 | 02/27 | 05/10 | 51 | 1.8 | 1.0 | 6 |
| UGA | G04034 | 1758 | 1813 | 2164 | . | 63.0 | 9.0 | 03/09 | 05/13 | 57 | 2.3 | 1.0 | 8 |
| UGA | G04060 | 1722 | . | . | . | 70.6 | 3.5 | 03/08 | 05/15 | 58 | 1.9 | 1.0 | 11 |
| UGA | G04059 | 1363 | . | . | . | 69.8 | 3.3 | 03/09 | 05/12 | 53 | 2.2 | 1.0 | 9 |
| UGA | G04033 | 1341 | 1486 | 1959 | . | 63.4 | 8.9 | 03/05 | 05/12 | 53 | 2.3 | 1.0 | 13 |
| UGA | G04038.P4.P3 | 1256 | . | . | . | 69.2 | 3.4 | 03/03 | 05/08 | 55 | 3.6 | 1.0 | 11 |
| UGA | 511.P11.P8.P4 | 1213 | . | . | . | 69.1 | 2.3 | 03/09 | 05/10 | 56 | 1.4 | 1.0 | 27 |
| UGA | G01114.2 | 1149 | . | . | . | 64.6 | 4.7 | 03/02 | 05/10 | 53 | 3.1 | 1.0 | 15 |
| UGA | G04035 | 1128 | 1450 | 1841 | . | 64.6 | 8.1 | 03/17 | 05/18 | 57 | 1.4 | 1.0 | 7 |
| Plantation Seeds | Flint | 1122 | 1306 | 1849 | . | 64.8 | 8.7 | 03/06 | 05/12 | 58 | 1.6 | 1.0 | 23 |
| UGA | G04031 | 1081 | 1444 | 1832 | . | 63.8 | 8.1 | 03/03 | 05/08 | 51 | 1.9 | 1.0 | 21 |
| UGA | P01.772.P7.P9.1 | 1079 | . | . | . | 68.3 | 2.2 | 03/05 | 05/09 | 52 | 2.7 | 1.0 | 18 |
| UGA | 528.33.5.P4.P8 | 1051 | . | . | . | 68.3 | 3.1 | 03/05 | 05/11 | 52 | 2.6 | 1.0 | 19 |
| UGA | 15F7.2.A81.5DH1 | 974 | . | . | . | 67.9 | 2.7 | 03/09 | 05/08 | 52 | 2.1 | 1.0 | 23 |
| UGA | Roy | 883 | . | . | . | 66.4 | 4.9 | 02/26 | 05/07 | 53 | 3.6 | 1.0 | 15 |
| UGA | G04023.D5 | 857 | . | . | . | 67.6 | 3.3 | 02/28 | 05/03 | 49 | 2.6 | 1.0 | 11 |
| UGA | P01114.5.9 | 713 | . | . | . | 66.6 | 4.1 | 02/26 | 05/01 | 46 | 3.0 | 1.0 | 15 |
| UGA | P01.772.P7.P9.9 | 699 | . | . | . | 68.8 | 2.7 | 03/01 | 05/05 | 47 | 2.2 | 1.0 | 15 |
| UGA | G04052.D4 | 680 | . | . | . | 65.5 | 3.9 | 02/26 | 05/01 | 48 | 3.3 | 1.0 | 15 |
| UGA | 4C4..P9.P1 | 551 | . | . | . | 66.2 | 4.0 | 03/02 | 05/07 | 48 | 1.9 | 2.5 | 39 |
| Croplan Genetics | Oscar | 523 | 989 | 1491 | . | 60.8 | 9.3 | 02/26 | 05/03 | 44 | 2.3 | 1.6 | 26 |
| UGA | P01114.5.15 | 481 | . | . | . | 66.7 | 3.8 | 03/01 | 05/03 | 47 | 2.7 | 1.0 | 21 |
| UGA | P01114.5.5 | 439 | . | . | . | 65.0 | 4.8 | 03/05 | 05/06 | 50 | 3.4 | 1.0 | 28 |
| UGA | P01114.5.14 | 417 | . | . | . | 64.3 | 3.9 | 03/08 | 05/08 | 51 | 2.5 | 1.5 | 58 |
| UGA | P01.772.P7.P9.8 | 396 | . | . | . | 67.5 | 3.0 | 03/03 | 05/01 | 50 | 3.8 | 1.0 | 20 |
| Bonis | LoLinda | 370 | . | . | . | 67.1 | 2.6 | 03/09 | 05/07 | 47 | 3.4 | 1.6 | 16 |
| Average | | 964 ⁶ | 1480 | 1900 | . | 66.2 | 4.9 | 03/04 | 05/08 | 51 | 2.5 | 1.1 | 19 |
| LSD at 10% Level | | 246 | 176 | 158 | . | 2.8 | 1.0 | 04 | 02 | 3 | 0.9 | 0.6 | 7 |
| Std. Err. of Entry Mean | | 104 | 74 | 67 | . | 1.1 | 0.4 | 01 | 01 | 1 | 0.4 | 0.3 | 3 |

1. Yields calculated as 50 lb/bu at 8.5% moisture.
2. Expressed as a percentage of the total fatty acids.
3. Lodging rating: 1.0 = all plants erect to 5.0 = over 80% of plants down.
4. Stand rating: 1.0 = excellent to 5.0 = very poor.
5. Estimated yield lost to shattering.
6. C.V. = 21.8%, and df for EMS = 75.

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

Planted: October 31, 2008.

Harvested: May 22, 2008.

Seeding Rate: 3 lb/acre in 7" rows.

Soil Type: Greenville sandy clay loam.

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

Fertilization: Preplant: 50 lb N/acre.

Topdress: 100 lb N/acre on January 29, 2008.

Management: Disked, subsoiled, and bedded; Treflan at 1 pt/acre used for preplant weed control; irrigated 3 times for total of 2.1 inches to establish stand.

Previous Crop: Peanut.

Test conducted by R. R. Pines and P. L. Raymer.

Tifton, Georgia: Spring Canola Variety Trial, 2007-2008

| Company or Brand Name | Variety | Yield ¹ | | | Fatty Acid Profile ² | | | Bloom date | Maturity date | Plant | | | |
|--------------------------|-----------------|--------------------|---------------------|-------------|---------------------------------|------------|----------------|---------------|------------------|-----------|------------------------------|------------------------------|---------------------------|
| | | 2008 | 2-Yr Avg lb/A | 3-Yr Avg | Oil % | Oleic % | Linolenic % | | | Ht. in | Lodg. ³ rating | Stand ⁴ rating | Shatter ⁵ % |
| UGA | G03036.D3 | 3160 | 3332 | 3274 | . | 63.6 | 8.5 | 03/05 | 05/04 | 54 | 1.0 | 1.0 | 0 |
| UGA | G04033 | 2683 | 2866 | 2993 | . | 65.1 | 8.0 | 03/12 | 05/08 | 59 | 1.0 | 1.0 | 0 |
| UGA | G04034 | 2652 | 2808 | 2874 | . | 63.2 | 9.1 | 03/15 | 05/09 | 62 | 1.0 | 1.3 | 0 |
| UGA | G04031 | 2553 | 2577 | 2648 | . | 62.7 | 8.5 | 03/08 | 05/05 | 53 | 1.0 | 1.0 | 0 |
| UGA | G04023.D5 | 2372 | . | . | . | 67.5 | 3.6 | 03/06 | 05/03 | 56 | 1.0 | 1.0 | 0 |
| Plantation Seeds | Flint | 2291 | 2501 | 2599 | . | 65.2 | 8.2 | 03/10 | 05/08 | 56 | 1.0 | 1.0 | 0 |
| UGA | G04060 | 2247 | . | . | . | 70.1 | 3.3 | 03/16 | 05/08 | 61 | 1.0 | 1.0 | 0 |
| UGA | G01114.2 | 2232 | . | . | . | 66.5 | 5.8 | 03/09 | 05/06 | 58 | 1.0 | 1.8 | 0 |
| UGA | G04038.P4.P3 | 2203 | . | . | . | 70.6 | 2.7 | 03/09 | 05/07 | 57 | 1.0 | 1.3 | 0 |
| Croplan Genetics | Oscar | 2059 | 2203 | 2203 | . | 59.5 | 9.4 | 03/05 | 05/03 | 53 | 1.0 | 1.5 | 0 |
| UGA | 528.33.5.P4.P8 | 2057 | . | . | . | 69.7 | 2.6 | 03/11 | 05/08 | 57 | 1.0 | 1.5 | 0 |
| DSV | H7027 | 1879 | . | . | . | 61.6 | 10.4 | 03/09 | 05/06 | 61 | 1.0 | 1.0 | 0 |
| UGA | G04059 | 1838 | . | . | . | 68.6 | 4.8 | 03/13 | 05/08 | 61 | 1.0 | 1.5 | 0 |
| UGA | P01.772.P7.P9.9 | 1762 | . | . | . | 69.2 | 2.8 | 03/07 | 05/05 | 51 | 1.0 | 2.0 | 0 |
| DSV | H7383 | 1750 | . | . | . | 63.2 | 9.5 | 03/08 | 05/05 | 62 | 1.0 | 1.0 | 0 |
| UGA | 511.P11.P8.P4 | 1742 | . | . | . | 69.4 | 2.8 | 03/21 | 05/09 | 58 | 1.0 | 1.0 | 0 |
| DSV | H7043 | 1692 | . | . | . | 61.4 | 9.7 | 03/09 | 05/05 | 63 | 1.0 | 1.0 | 0 |
| UGA | Roy | 1660 | . | . | . | 67.0 | 4.7 | 03/06 | 05/06 | 58 | 1.0 | 1.0 | 0 |
| UGA | G04052.D4 | 1652 | . | . | . | 68.7 | 4.8 | 03/03 | 05/02 | 51 | 1.0 | 1.3 | 0 |
| UGA | P01114.5.9 | 1540 | . | . | . | 68.6 | 4.3 | 03/04 | 05/01 | 49 | 1.0 | 1.0 | 0 |
| UGA | P01.772.P7.P9.1 | 1530 | . | . | . | 68.5 | 2.4 | 03/10 | 05/07 | 55 | 1.0 | 1.8 | 0 |
| UGA | P01114.5.5 | 1434 | . | . | . | 69.0 | 3.3 | 03/09 | 05/06 | 54 | 1.0 | 1.3 | 0 |
| UGA | 15F7.2.A81.5DH1 | 1422 | . | . | . | 67.8 | 2.9 | 03/17 | 05/07 | 55 | 1.0 | 1.8 | 0 |
| UGA | G04035 | 1406 | 1993 | 2270 | . | 64.7 | 8.3 | 03/22 | 05/12 | 64 | 1.0 | 1.0 | 0 |
| UGA | 4C4..P9.P1 | 1383 | . | . | . | 67.6 | 3.7 | 03/08 | 05/05 | 54 | 1.0 | 1.5 | 0 |
| Bonis | LoLinda | 1292 | . | . | . | 65.2 | 3.7 | 03/12 | 05/06 | 56 | 1.0 | 1.3 | 0 |
| UGA | P01.772.P7.P9.8 | 1210 | . | . | . | 70.4 | 3.1 | 03/10 | 05/04 | 51 | 1.0 | 2.5 | 0 |
| Average | | 1915 ⁶ | 2612 | 2694 | . | 66.5 | 5.6 | 03/10 | 05/06 | 56 | 1.0 | 1.3 | 0 |
| LSD at 10% Level | | 211 | 225 | 226 | . | 1.5 | 1.0 | 06 | 02 | 3 | - | 0.5 | - |
| Std. Err. of Entry Mean | | 90 | 94 | 95 | . | 0.6 | 0.4 | 03 | 01 | 1 | - | 0.1 | - |

1. Yields calculated as 50 lb/bu at 8.5% moisture.
2. Expressed as a percentage of the total fatty acids.
3. Lodging rating: 1.0 = all plants erect to 5.0 = over 80% of plants down.
4. Stand rating: 1.0 = excellent to 5.0 = very poor.
5. Estimated yield lost to shattering.
6. C.V. = 9.5%, and df for EMS = 81.

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

Planted: November 20, 2007.
 Harvested: June 3, 2008.
 Seeding Rate: 3 lb/acre in 7" rows.
 Soil Type: Tifton loamy sand.
 Soil Test: P = Medium, K = Medium, and pH = 6.4.
 Fertilization: Preplant: 80 lb N, 4- lb P₂O₅, and 60 lb K₂O/acre.
 Topdress: 120 lb N/acre.
 Management: V-ripped tilled and rototilled; Treflan used for weed control.
 Previous Crop: Small grain.

Test conducted by A. E. Coy, R. Brooke, and R. Jackson.

Average Performance of State Spring Canola Lines at Two Georgia Locations¹, 2007-2008

| Company or Brand Name | Variety | Yield ² lb/A | Fatty Acid Profile ³ | | | Bloom date | Maturity date | Plant | | | |
|--------------------------|-----------------|----------------------------|---------------------------------|------------|----------------|---------------|------------------|-----------|------------------------------|------------------------------|---------------------------|
| | | | Oil % | Oleic % | Linolenic % | | | Ht. in | Lodg. ⁴ rating | Stand ⁵ rating | Shatter ⁶ % |
| UGA | G03036.D3 | 2495 | . | 63.0 | 9.1 | 03/02 | 05/07 | 52 | 1.4 | 1.0 | 3 |
| UGA | G04034 | 2205 | . | 63.1 | 9.1 | 03/12 | 05/11 | 59 | 1.7 | 1.1 | 4 |
| UGA | G04033 | 2012 | . | 64.3 | 8.5 | 03/08 | 05/11 | 56 | 1.7 | 1.0 | 6 |
| UGA | G04060 | 1984 | . | 70.4 | 3.4 | 03/12 | 05/12 | 59 | 1.5 | 1.0 | 6 |
| UGA | G04031 | 1816 | . | 63.3 | 8.3 | 03/06 | 05/07 | 52 | 1.4 | 1.0 | 11 |
| UGA | G04038.P4.P3 | 1729 | . | 69.9 | 3.0 | 03/06 | 05/08 | 56 | 2.3 | 1.1 | 6 |
| Plantation Seeds | Flint | 1706 | . | 65.0 | 8.5 | 03/08 | 05/10 | 57 | 1.3 | 1.0 | 11 |
| UGA | G01114.2 | 1691 | . | 65.5 | 5.2 | 03/06 | 05/08 | 55 | 2.0 | 1.4 | 8 |
| UGA | G04023.D5 | 1614 | . | 67.5 | 3.5 | 03/03 | 05/04 | 53 | 1.8 | 1.0 | 6 |
| UGA | G04059 | 1601 | . | 69.2 | 4.1 | 03/11 | 05/10 | 57 | 1.6 | 1.3 | 4 |
| UGA | 528.33.5.P4.P8 | 1554 | . | 69.0 | 2.9 | 03/08 | 05/10 | 54 | 1.8 | 1.3 | 9 |
| UGA | 511.P11.P8.P4 | 1478 | . | 69.2 | 2.6 | 03/15 | 05/10 | 57 | 1.2 | 1.0 | 13 |
| UGA | P01.772.P7.P9.1 | 1304 | . | 68.4 | 2.3 | 03/07 | 05/08 | 53 | 1.8 | 1.4 | 9 |
| Croplan Genetics | Oscar | 1291 | . | 60.1 | 9.4 | 03/02 | 05/03 | 48 | 1.6 | 1.6 | 13 |
| UGA | Roy | 1271 | . | 66.7 | 4.8 | 03/02 | 05/07 | 55 | 2.3 | 1.0 | 8 |
| UGA | G04035 | 1267 | . | 64.7 | 8.2 | 03/20 | 05/15 | 61 | 1.2 | 1.0 | 3 |
| UGA | P01.772.P7.P9.9 | 1230 | . | 69.0 | 2.8 | 03/04 | 05/06 | 49 | 1.6 | 1.5 | 8 |
| UGA | 15F7.2.A81.5DH1 | 1198 | . | 67.9 | 2.8 | 03/13 | 05/08 | 53 | 1.6 | 1.4 | 11 |
| UGA | G04052.D4 | 1166 | . | 67.1 | 4.3 | 03/01 | 05/02 | 49 | 2.1 | 1.1 | 8 |
| UGA | P01114.5.9 | 1127 | . | 67.6 | 4.2 | 03/01 | 05/01 | 47 | 2.0 | 1.0 | 8 |
| UGA | 4C4..P9.P1 | 967 | . | 66.9 | 3.9 | 03/05 | 05/06 | 51 | 1.4 | 2.0 | 19 |
| UGA | P01114.5.5 | 937 | . | 67.0 | 4.1 | 03/07 | 05/06 | 52 | 2.2 | 1.1 | 14 |
| Bonis | LoLinda | 831 | . | 66.1 | 3.2 | 03/11 | 05/07 | 52 | 2.2 | 1.4 | 8 |
| UGA | P01.772.P7.P9.8 | 803 | . | 69.0 | 3.0 | 03/06 | 05/03 | 51 | 2.4 | 1.8 | 10 |
| Average | | 1470 ⁷ | . | 66.7 | 5.0 | 03/07 | 05/08 | 54 | 1.7 | 1.2 | 8 |
| LSD at 10% Level | | 162 | | 1.2 | 0.7 | 02 | 01 | 2 | N.S. ⁸ | N.S. | 4 |
| Std. Err. of Entry Mean | | 69 | | 0.5 | 0.3 | 01 | 01 | 1 | 0.2 | 0.2 | 1.5 |

1. Plains and Tifton.

2. Yields calculated as 50 lb/bu at 8.5% moisture.

3. Expressed as a percentage of the total fatty acids.

4. Lodging rating: 1.0 = all plants erect to 5.0 = over 80% of plants down.

5. Stand rating: 1.0 = excellent to 5.0 = very poor.

6. Estimated yield lost to shattering.

7. C.V. = 13.3%, and df for EMS = 138.

8. The F-test indicated no statistical difference at the alpha = .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).