

## Plains, Georgia: SEO (Superior Edible Oil) Canola Variety Trial, 2007-2008

| Variety                 |                    | Yield <sup>1</sup><br>lb/A | Fatty Acid Profile <sup>2</sup> |            |                | Bloom<br>date | Maturity<br>date | Plant<br>Ht.<br>in | Lodg. <sup>3</sup><br>rating | Stand <sup>4</sup><br>rating | Shatter <sup>5</sup><br>% |
|-------------------------|--------------------|----------------------------|---------------------------------|------------|----------------|---------------|------------------|--------------------|------------------------------|------------------------------|---------------------------|
|                         |                    |                            | Oil<br>%                        | Oleic<br>% | Linolenic<br>% |               |                  |                    |                              |                              |                           |
| UGA                     | 542.30.1.P2.P5.P3  | <b>1622</b>                | .                               | 70.5       | 2.2            | 03/13         | 05/12            | 49                 | 2.4                          | 1.0                          | 17                        |
| UGA                     | 518.40.1.P4.P9.P2  | <b>1553</b>                | .                               | 73.0       | 2.1            | 03/05         | 05/13            | 51                 | 1.7                          | 1.0                          | 15                        |
| UGA                     | 518.13.1.P5.P1.P2  | <b>1343</b>                | .                               | 69.8       | 2.4            | 03/16         | 05/19            | 55                 | 1.1                          | 1.0                          | 8                         |
| UGA                     | 537.41.3.P2.P9.P3  | 1295                       | .                               | 70.8       | 1.8            | 03/09         | 05/13            | 56                 | 1.6                          | 1.0                          | 13                        |
| UGA                     | 518.13.1.P5.P1.P3A | 1198                       | .                               | 69.1       | 3.2            | 03/14         | 05/18            | 54                 | 1.3                          | 1.0                          | 7                         |
| UGA                     | 514.P38.P5.P4.P1   | 1122                       | .                               | 69.0       | 2.1            | 03/17         | 05/15            | 51                 | 1.1                          | 1.0                          | 17                        |
| UGA                     | 511.P11.P8.P2.P2   | 1044                       | .                               | 68.4       | 2.5            | 03/09         | 05/10            | 50                 | 1.2                          | 1.0                          | 23                        |
| Plantation Seeds        | Flint              | 991                        | .                               | 64.9       | 8.4            | 03/05         | 05/15            | 52                 | 1.3                          | 1.0                          | 38                        |
| UGA                     | 511.P30.P8.P9.P3   | 945                        | .                               | 70.3       | 2.5            | 03/12         | 05/12            | 51                 | 2.5                          | 1.0                          | 13                        |
| UGA                     | 511.P11.P8.P1.P1   | 928                        | .                               | 69.2       | 2.6            | 03/16         | 05/13            | 52                 | 2.2                          | 1.0                          | 20                        |
| UGA                     | 518.13.1.P5.P1.P3B | 924                        | .                               | 69.1       | 2.4            | 03/10         | 05/12            | 51                 | 2.1                          | 1.0                          | 13                        |
| UGA                     | 514.P38.P10.P1.P2  | 922                        | .                               | 69.2       | 1.9            | 03/10         | 04/25            | 52                 | 2.2                          | 1.0                          | 20                        |
| UGA                     | 537.41.3.P5.P9.P1  | 906                        | .                               | 68.7       | 2.6            | 03/13         | 05/14            | 50                 | 1.3                          | 1.0                          | 27                        |
| UGA                     | 528.33.5.P4.P8.P1  | 877                        | .                               | 65.2       | 2.2            | 03/07         | 05/13            | 52                 | 3.0                          | 1.0                          | 13                        |
| UGA                     | Roy                | 862                        | .                               | 66.6       | 4.2            | 02/26         | 05/08            | 54                 | 3.8                          | 1.0                          | 22                        |
| UGA                     | 518.13.1.P5.P2.P2  | 790                        | .                               | 70.2       | 1.9            | 03/08         | 05/12            | 51                 | 2.0                          | 1.0                          | 15                        |
| UGA                     | 511.P30.P8.P1.P2   | 788                        | .                               | 67.8       | 1.9            | 03/14         | 05/09            | 47                 | 1.3                          | 1.0                          | 53                        |
| UGA                     | 511.P30.P10.P2.P3  | 755                        | .                               | 69.6       | 2.8            | 03/17         | 05/12            | 48                 | 1.6                          | 1.0                          | 32                        |
| Croplan Genetics        | Oscar              | 718                        | .                               | 60.9       | 9.4            | 02/26         | 05/02            | 44                 | 3.6                          | 1.0                          | 20                        |
| Bonis                   | LoLinda            | 530                        | .                               | 65.4       | 2.7            | 03/07         | 05/06            | 49                 | 4.2                          | 1.0                          | 27                        |
| UGA                     | 537.18.3.P3.P4.P1  | 419                        | .                               | 70.6       | 1.7            | 03/15         | 05/11            | 53                 | 4.3                          | 1.0                          | 5                         |
| Average                 |                    | 978 <sup>6</sup>           | .                               | 68.5       | 3.0            | 03/10         | 05/11            | 51                 | 2.2                          | 1.0                          | 20                        |
| LSD at 10% Level        |                    | 321                        |                                 | 2.8        | 0.9            | 03            | 08               | 4                  | 0.7                          | -                            | 12                        |
| Std. Err. of Entry Mean |                    | 132                        |                                 | 1.1        | 0.4            | 01            | 03               | 2                  | 0.3                          | -                            | 5                         |

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. = 23/3%, 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: 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: SEO (Superior Edible Oil) Canola Variety Trial, 2007-2008

| Variety                 | Yield <sup>1</sup><br>lb/A | Fatty Acid Profile <sup>2</sup> |            |                | Bloom<br>date | Maturity<br>date | Plant     |     | Lodg. <sup>3</sup><br>rating | Stand <sup>4</sup><br>rating | Shatter <sup>5</sup><br>% |
|-------------------------|----------------------------|---------------------------------|------------|----------------|---------------|------------------|-----------|-----|------------------------------|------------------------------|---------------------------|
|                         |                            | Oil<br>%                        | Oleic<br>% | Linolenic<br>% |               |                  | Ht.<br>in |     |                              |                              |                           |
| Plantation Seeds Flint  | <b>2517</b>                | .                               | 65.9       | 8.0            | 03/13         | 05/07            | 61        | 1.0 | 1.0                          | 0                            |                           |
| Croplan Genetics Oscar  | 2108                       | .                               | 60.3       | 10.2           | 03/13         | 05/01            | 49        | 1.0 | 1.0                          | 0                            |                           |
| UGA 542.30.1.P2.P5.P3   | 1885                       | .                               | 71.9       | 1.6            | 03/16         | 05/07            | 57        | 1.0 | 1.0                          | 0                            |                           |
| UGA 518.13.1.P5.P1.P3B  | 1883                       | .                               | 70.4       | 2.1            | 03/20         | 05/08            | 56        | 1.0 | 1.0                          | 0                            |                           |
| UGA 511.P30.P8.P9.P3    | 1750                       | .                               | 71.4       | 2.4            | 03/21         | 05/08            | 54        | 1.0 | 1.0                          | 0                            |                           |
| UGA 518.13.1.P5.P1.P3A  | 1727                       | .                               | 72.4       | 2.3            | 03/22         | 05/10            | 55        | 1.0 | 1.0                          | 0                            |                           |
| UGA Roy                 | 1691                       | .                               | 68.4       | 4.3            | 03/05         | 05/07            | 57        | 1.0 | 1.3                          | 0                            |                           |
| UGA 537.41.3.P5.P9.P1   | 1689                       | .                               | 69.1       | 1.8            | 03/20         | 05/07            | 55        | 1.0 | 1.0                          | 0                            |                           |
| UGA 528.33.5.P4.P8.P1   | 1662                       | .                               | 69.0       | 1.8            | 03/15         | 05/09            | 59        | 1.0 | 1.0                          | 0                            |                           |
| UGA 514.P38.P10.P1.P2   | 1633                       | .                               | 69.3       | 1.7            | 03/19         | 05/06            | 60        | 1.0 | 1.0                          | 0                            |                           |
| UGA 518.13.1.P5.P1.P2   | 1630                       | .                               | 67.7       | 2.4            | 03/24         | 05/11            | 59        | 1.0 | 1.0                          | 0                            |                           |
| UGA 511.P30.P8.P1.P2    | 1629                       | .                               | 65.8       | 2.9            | 03/21         | 05/08            | 55        | 1.0 | 1.0                          | 0                            |                           |
| UGA 514.P38.P5.P4.P1    | 1588                       | .                               | 69.5       | 1.5            | 03/24         | 05/10            | 57        | 1.0 | 1.0                          | 0                            |                           |
| UGA 511.P11.P8.P1.P1    | 1535                       | .                               | 70.9       | 2.3            | 03/22         | 05/09            | 61        | 1.0 | 1.0                          | 0                            |                           |
| Bonis LoLinda           | 1339                       | .                               | 65.9       | 2.8            | 03/20         | 05/04            | 59        | 1.0 | 1.0                          | 0                            |                           |
| Average                 | 1751 <sup>6</sup>          | .                               | 68.5       | 3.2            | 03/18         | 05/07            | 57        | 1.0 | 1.0                          | 0                            |                           |
| LSD at 10% Level        | 235                        | .                               | 2.2        | 0.7            | 05            | 01               | 3         | -   | -                            | -                            |                           |
| Std. Err. of Entry Mean | 99                         | .                               | 0.9        | 0.3            | 02            | 01               | 2         | -   | -                            | -                            |                           |

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. = 9.8%, and df for EMS = 29.

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

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, 40 lb P<sub>2</sub>O<sub>5</sub>, and 60 lb K<sub>2</sub>O/acre.

Topdress: 120 lb N and lb S/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 SEO (Superior Edible Oil) Canola Lines at Two Georgia Locations<sup>1</sup>, 2007-2008

| Company or<br>Brand Name | Variety            | Yield <sup>2</sup><br>lb/A | Oil<br>% | Fatty Acid Profile <sup>3</sup> |                | Bloom<br>date | Maturity<br>date | Plant     |                              |                              |                           |
|--------------------------|--------------------|----------------------------|----------|---------------------------------|----------------|---------------|------------------|-----------|------------------------------|------------------------------|---------------------------|
|                          |                    |                            |          | Oleic<br>%                      | Linolenic<br>% |               |                  | Ht.<br>in | Lodg. <sup>4</sup><br>rating | Stand <sup>5</sup><br>rating | Shatter <sup>6</sup><br>% |
| Plantation Seeds         | Flint              | <b>1754</b>                | .        | 65.4                            | 8.2            | 03/09         | 05/11            | 56        | 1.2                          | 1.0                          | 19                        |
| UGA                      | 542.30.1.P2.P5.P3  | <b>1754</b>                | .        | 71.2                            | 1.9            | 03/15         | 05/10            | 53        | 1.7                          | 1.0                          | 8                         |
| UGA                      | 518.13.1.P5.P1.P2  | 1487                       | .        | 68.7                            | 2.4            | 03/20         | 05/15            | 57        | 1.1                          | 1.0                          | 4                         |
| UGA                      | 518.13.1.P5.P1.P3A | 1463                       | .        | 70.7                            | 2.7            | 03/18         | 05/15            | 54        | 1.2                          | 1.0                          | 4                         |
| Croplan Genetics         | Oscar              | 1413                       | .        | 60.6                            | 9.8            | 03/05         | 05/02            | 47        | 2.3                          | 1.0                          | 10                        |
| UGA                      | 518.13.1.P5.P1.P3B | 1404                       | .        | 69.7                            | 2.3            | 03/15         | 05/11            | 54        | 1.5                          | 1.0                          | 7                         |
| UGA                      | 514.P38.P5.P4.P1   | 1355                       | .        | 69.2                            | 1.8            | 03/20         | 05/13            | 54        | 1.0                          | 1.0                          | 8                         |
| UGA                      | 511.P30.P8.P9.P3   | 1348                       | .        | 70.9                            | 2.4            | 03/17         | 05/10            | 53        | 1.7                          | 1.0                          | 7                         |
| UGA                      | 537.41.3.P5.P9.P1  | 1298                       | .        | 68.9                            | 2.2            | 03/16         | 05/11            | 53        | 1.2                          | 1.0                          | 13                        |
| UGA                      | 514.P38.P10.P1.P2  | 1278                       | .        | 69.3                            | 1.8            | 03/14         | 05/01            | 56        | 1.6                          | 1.0                          | 10                        |
| UGA                      | Roy                | 1277                       | .        | 67.5                            | 4.3            | 03/01         | 05/08            | 56        | 2.4                          | 1.0                          | 11                        |
| UGA                      | 528.33.5.P4.P8.P1  | 1269                       | .        | 67.1                            | 2.0            | 03/11         | 05/11            | 56        | 2.0                          | 1.0                          | 7                         |
| UGA                      | 511.P11.P8.P1.P1   | 1232                       | .        | 70.1                            | 2.5            | 03/19         | 05/11            | 57        | 1.6                          | 1.0                          | 10                        |
| UGA                      | 511.P30.P8.P1.P2   | 1209                       | .        | 66.8                            | 2.4            | 03/17         | 05/09            | 51        | 1.2                          | 1.0                          | 27                        |
| Bonis                    | LoLinda            | 934                        | .        | 65.6                            | 2.8            | 03/13         | 05/06            | 54        | 2.6                          | 1.0                          | 13                        |
| Average                  |                    | 1365 <sup>7</sup>          | .        | 68.1                            | 3.3            | 03/14         | 05/09            | 54        | 1.6                          | 1.0                          | 11                        |
| LSD at 10% Level         |                    | 200                        |          | 1.8                             | 0.5            | 03            | 04               | 2         | 0.4                          | -                            | N.S. <sup>8</sup>         |
| Std. Err. of Entry Mean  |                    | 75                         |          | 0.7                             | 0.2            | 01            | 02               | 1         | 0.1                          | -                            | 2                         |

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. = 15.5%, and df for EMS = 58.
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).