

Plains, Georgia: SEO (Superior Edible Oil) Canola Variety Trial, 2003-2004

| Company or | | Yield ¹ lb/A | Oil % | Fatty Acid Profile ² | | | Bloom date | Maturity date | Plant | | | |
|-------------------------|---------|----------------------------|----------|---------------------------------|----------------|-----------|---------------|------------------|------------------------------|---------------|---------------------------|--|
| Brand Name | Variety | | | Oleic % | Linolenic % | Ht. in | | | Lodg. ³ rating | Survival % | Shatter ⁴ % | |
| Plantation Seeds | Flint | 4659 | 39.5 | 66.9 | 6.6 | 03/06 | 05/14 | 58 | 1.1 | 100 | 0 | |
| UGA | G04019 | 4096 | 41.5 | 69.5 | 1.9 | 03/07 | 05/14 | 57 | 1.5 | 100 | 0 | |
| UGA | G04023 | 3992 | 40.9 | 69.3 | 2.8 | 03/05 | 05/10 | 59 | 2.2 | 100 | 0 | |
| UGA | G04027 | 3817 | 39.3 | 67.6 | 2.6 | 03/05 | 05/08 | 55 | 1.1 | 100 | 0 | |
| UGA | G04017 | 3812 | 40.7 | 69.6 | 1.9 | 03/06 | 05/13 | 56 | 1.3 | 100 | 0 | |
| UGA | G04028 | 3765 | 39.1 | 69.4 | 2.7 | 03/06 | 05/10 | 57 | 1.7 | 100 | 0 | |
| UGA | G04021 | 3749 | 41.1 | 70.5 | 1.7 | 03/06 | 05/12 | 57 | 1.1 | 100 | 0 | |
| UGA | G03501 | 3637 | 38.3 | 68.5 | 3.9 | 03/06 | 05/11 | 55 | 1.2 | 100 | 0 | |
| UGA | G03514 | 3589 | 41.8 | 68.9 | 3.0 | 03/04 | 05/08 | 52 | 1.5 | 100 | 0 | |
| UGA | G04018 | 3573 | 41.5 | 70.5 | 2.0 | 03/06 | 05/12 | 56 | 1.0 | 100 | 0 | |
| Croplan Genetics | Oscar | 3567 | 39.3 | 64.8 | 7.4 | 03/03 | 05/08 | 53 | 1.0 | 100 | 0 | |
| UGA | G02551 | 3562 | 40.6 | 67.2 | 2.5 | 03/06 | 05/12 | 54 | 1.1 | 100 | 0 | |
| UGA | G04016 | 3546 | 41.3 | 70.5 | 1.7 | 03/07 | 05/15 | 57 | 2.6 | 100 | 0 | |
| UGA | G04015 | 3530 | 41.1 | 68.4 | 3.4 | 03/06 | 05/11 | 56 | 1.3 | 100 | 0 | |
| UGA | G04020 | 3449 | 40.2 | 67.4 | 3.0 | 03/08 | 05/16 | 60 | 1.6 | 100 | 0 | |
| UGA | G04026 | 3380 | 40.3 | 65.5 | 3.3 | 03/02 | 05/07 | 54 | 1.1 | 100 | 0 | |
| UGA | G01114 | 3314 | 40.4 | 66.7 | 4.5 | 03/04 | 05/09 | 56 | 1.1 | 100 | 0 | |
| UGA | G04024 | 3298 | 39.6 | 69.4 | 3.1 | 03/04 | 05/11 | 57 | 1.1 | 100 | 0 | |
| UGA | G02544 | 3194 | 39.4 | 68.1 | 2.9 | 03/04 | 05/09 | 57 | 1.1 | 100 | 0 | |
| UGA | LoLinda | 3179 | 41.3 | 65.5 | 4.2 | 03/07 | 05/13 | 60 | 1.2 | 100 | 0 | |
| UGA | G04022 | 3111 | 41.6 | 68.4 | 2.4 | 03/07 | 05/12 | 59 | 1.5 | 100 | 0 | |
| UGA | G98110 | 2922 | 39.3 | 68.4 | 4.1 | 03/07 | 05/14 | 56 | 1.1 | 100 | 0 | |
| UGA | G04025 | 2860 | 36.9 | 68.0 | 1.9 | 03/06 | 05/13 | 57 | 2.1 | 100 | 0 | |
| UGA | G01095 | 2508 | 38.9 | 68.1 | 3.3 | 03/05 | 05/11 | 57 | 2.0 | 100 | 0 | |
| Average | | 3504 ⁵ | 40.1 | 68.2 | 3.2 | 03/05 | 05/11 | 57 | 1.4 | 100 | 0 | |
| LSD at 10% Level | | 586 | 1.0 | 1.5 | 0.8 | 01 | 01 | 2 | 0.6 | - | - | |
| Std. Err. of Entry Mean | | 246 | 0.3 | 0.6 | 0.3 | 01 | 01 | 1 | 0.3 | - | - | |

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. Estimated yield lost to shattering.
5. C.V. = 12.2%, and df for EMS = 46.

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

Planted: October 24, 2003.
 Harvested: May 20, 2004.
 Seeding Rate: 5 lb/acre in 7" rows.
 Soil Type: Greenville sandy clay loam.
 Soil Test: P = Medium, K = High, and pH = 5.8.
 Fertilization: Preplant: 50 lb N, 0 lb P₂O₅, and 0 lb K₂O/acre.
 Topdress: 110 lb N/acre on January 23, 2004.
 Management: Subsoiled and rototilled; irrigated 2 times for a total of 2.0 inches.
 Previous Crop: Corn.

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

Tifton, Georgia: SEO (Superior Edible Oil) Canola Variety Trial, 2003-2004

| Company or | | Yield ¹ lb/A | Oil % | Fatty Acid Profile ² | | Bloom date | Maturity date | Plant | |
|-------------------------|---------|----------------------------|----------|---------------------------------|----------------|---------------|------------------|-------------------|--------------------------------|
| Brand Name | Variety | | | Oleic % | Linolenic % | | | Ht. in | Lodging ³ rating |
| Croplan Genetics | Oscar | 4687 | 43.2 | 62.1 | 9.3 | 03/04 | 04/30 | 57 | 1.0 |
| Plantation Seeds | Flint | 4510 | 43.6 | 64.6 | 8.3 | 03/08 | 05/04 | 59 | 1.0 |
| UGA | G04023 | 4335 | 44.8 | 69.8 | 2.6 | 03/07 | 05/03 | 61 | 1.0 |
| UGA | G04027 | 4214 | 42.5 | 67.9 | 2.5 | 03/06 | 04/30 | 58 | 1.0 |
| UGA | G04026 | 4212 | 43.2 | 65.7 | 4.0 | 03/01 | 04/30 | 59 | 1.0 |
| UGA | G04018 | 4152 | 45.3 | 69.1 | 2.2 | 03/07 | 05/03 | 58 | 1.0 |
| UGA | G03514 | 4150 | 46.2 | 68.3 | 2.6 | 03/03 | 05/01 | 57 | 1.0 |
| UGA | G02551 | 4139 | 43.6 | 68.6 | 1.9 | 03/06 | 05/02 | 57 | 1.0 |
| | LoLinda | 4136 | 45.8 | 67.5 | 3.5 | 03/08 | 05/03 | 64 | 1.0 |
| UGA | G01095 | 4130 | 44.2 | 68.9 | 3.2 | 03/04 | 05/03 | 57 | 1.0 |
| UGA | G03501 | 4047 | 43.1 | 68.6 | 4.2 | 03/09 | 05/03 | 57 | 1.0 |
| UGA | G04017 | 4014 | 45.5 | 68.1 | 1.6 | 03/08 | 05/03 | 54 | 1.0 |
| UGA | G01114 | 4001 | 44.9 | 69.1 | 3.2 | 03/02 | 05/01 | 59 | 1.0 |
| UGA | G04022 | 3924 | 45.1 | 68.8 | 2.2 | 03/08 | 05/03 | 58 | 1.0 |
| UGA | G04021 | 3870 | 44.8 | 71.1 | 2.0 | 03/07 | 05/03 | 56 | 1.0 |
| UGA | G04028 | 3840 | 43.3 | 68.0 | 4.4 | 03/08 | 05/04 | 59 | 1.0 |
| UGA | G04019 | 3821 | 44.6 | 68.4 | 1.8 | 03/09 | 05/04 | 57 | 1.0 |
| UGA | G02544 | 3786 | 43.8 | 67.0 | 3.4 | 03/02 | 05/01 | 59 | 1.0 |
| UGA | G04024 | 3757 | 44.4 | 67.6 | 2.5 | 03/06 | 05/03 | 58 | 1.0 |
| UGA | G04015 | 3670 | 44.2 | 69.7 | 3.2 | 03/07 | 04/30 | 59 | 1.0 |
| UGA | G04016 | 3632 | 45.9 | 69.7 | 1.7 | 03/09 | 05/05 | 55 | 1.0 |
| UGA | G04025 | 3575 | 44.9 | 68.9 | 2.2 | 03/08 | 05/02 | 58 | 1.0 |
| UGA | G04020 | 3546 | 44.1 | 68.8 | 2.7 | 03/09 | 05/04 | 61 | 1.0 |
| UGA | G98110 | 3527 | 43.9 | 66.1 | 4.7 | 03/06 | 05/04 | 58 | 1.0 |
| Average | | 3986 ⁴ | 44.3 | 68.0 | 3.3 | 03/07 | 05/03 | 58 | 1.0 |
| LSD at 10% Level | | 323 | 1.5 | 1.6 | 0.8 | 01 | 02 | N.S. ⁵ | - |
| Std. Err. of Entry Mean | | 136 | 0.5 | 0.8 | 0.4 | 01 | 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. C.V. = 5.9%, and df for EMS = 46.
5. 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).

Planted: November 7, 2003.

Harvested: May 17, 2004.

Seeding Rate: 5 lb/acre in 7" rows.

Soil Type: Tifton loamy sand.

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

Fertilization: Preplant: 80 lb N, 80 lb P₂O₅, and 80 lb K₂O/acre.

Topdress: 80 lb N/acre.

Management: Paratilled and rototilled; Trilin used for weed control.

Previous Crop: Corn.

Test conducted by A. E. Coy, M. D. Pippin, R. Burton, and R. Brooke.

Average Performance of SEO (Superior Edible Oil) Canola Lines at Two Georgia Locations¹, 2003-2004

| Company or Brand Name | Variety | Yield ² lb/A | Fatty Acid Profile ³ | | | Bloom date | Maturity date | Plant | |
|--------------------------|---------|----------------------------|---------------------------------|------------|----------------|---------------|------------------|-----------|--------------------------------|
| | | | Oil % | Oleic % | Linolenic % | | | Ht. in | Lodging ⁴ rating |
| Plantation Seeds | Flint | 4584 | 41.6 | 65.7 | 7.5 | 03/07 | 05/09 | 59 | 1.0 |
| UGA | G04023 | 4164 | 42.8 | 69.5 | 2.7 | 03/06 | 05/07 | 60 | 1.6 |
| Croplan Genetics | Oscar | 4127 | 41.3 | 63.4 | 8.3 | 03/04 | 05/04 | 55 | 1.0 |
| UGA | G04027 | 4016 | 40.9 | 67.8 | 2.5 | 03/06 | 05/04 | 56 | 1.1 |
| UGA | G04019 | 3959 | 43.0 | 68.9 | 1.8 | 03/08 | 05/09 | 57 | 1.3 |
| UGA | G04017 | 3913 | 43.1 | 68.9 | 1.7 | 03/07 | 05/09 | 55 | 1.2 |
| UGA | G03514 | 3870 | 44.0 | 68.6 | 2.8 | 03/04 | 05/05 | 55 | 1.3 |
| UGA | G04018 | 3863 | 43.4 | 69.8 | 2.1 | 03/07 | 05/08 | 57 | 1.0 |
| UGA | G02551 | 3851 | 42.1 | 67.9 | 2.2 | 03/07 | 05/07 | 55 | 1.0 |
| UGA | G03501 | 3842 | 40.7 | 68.6 | 4.1 | 03/08 | 05/07 | 56 | 1.1 |
| UGA | G04021 | 3810 | 42.9 | 70.8 | 1.9 | 03/07 | 05/08 | 57 | 1.0 |
| UGA | G04028 | 3802 | 41.2 | 68.7 | 3.5 | 03/07 | 05/07 | 58 | 1.3 |
| UGA | G04026 | 3796 | 41.7 | 65.6 | 3.7 | 03/02 | 05/04 | 57 | 1.0 |
| Bonis | LoLinda | 3658 | 43.5 | 66.5 | 3.9 | 03/08 | 05/08 | 62 | 1.1 |
| UGA | G01114 | 3657 | 42.6 | 67.9 | 3.9 | 03/03 | 05/05 | 58 | 1.1 |
| UGA | G04015 | 3600 | 42.6 | 69.0 | 3.3 | 03/07 | 05/06 | 58 | 1.2 |
| UGA | G04016 | 3589 | 43.6 | 70.1 | 1.7 | 03/09 | 05/10 | 56 | 1.8 |
| UGA | G04024 | 3527 | 42.0 | 68.5 | 2.8 | 03/05 | 05/07 | 58 | 1.0 |
| UGA | G04022 | 3517 | 43.3 | 68.6 | 2.3 | 03/08 | 05/08 | 59 | 1.3 |
| UGA | G04020 | 3498 | 42.1 | 68.1 | 2.9 | 03/09 | 05/10 | 61 | 1.3 |
| UGA | G02544 | 3490 | 41.6 | 67.6 | 3.1 | 03/04 | 05/05 | 58 | 1.0 |
| UGA | G01095 | 3319 | 41.5 | 68.5 | 3.2 | 03/05 | 05/07 | 57 | 1.5 |
| UGA | G98110 | 3224 | 41.6 | 67.3 | 4.4 | 03/07 | 05/09 | 57 | 1.0 |
| UGA | G04025 | 3217 | 40.9 | 68.5 | 2.1 | 03/08 | 05/08 | 58 | 1.5 |
| Average | | 3745 ⁵ | 42.3 | 68.1 | 3.3 | 03/06 | 05/07 | 57 | 1.2 |
| LSD at 10% Level | | 331 | 0.9 | 1.1 | 0.6 | 01 | 01 | 2 | 0.3 |
| Std. Err. of Entry Mean | | 144 | 0.3 | 0.5 | 0.2 | 01 | 01 | 1 | 0.1 |

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. C.V. = 8.6%, and df for EMS = 138.

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