

Planted July 2, 2013; harvested October 25, 2013.

| Company or Brand  | Hybrid       | Oil Type†  | Days to Half Bloom | Plant Height (inches) | Avg. Plants/acre | Lodging % | Test Weight (lbs./bu) | % Oil Content | Oil Yield (lbs./A) | Seed Yield @10% H2O (lbs./A) | Crop Value‡ (\$/Acre) | 2012-2013 Avg. |              |
|-------------------|--------------|------------|--------------------|-----------------------|------------------|-----------|-----------------------|---------------|--------------------|------------------------------|-----------------------|----------------|--------------|
|                   |              |            |                    |                       |                  |           |                       |               |                    |                              |                       | Yield (lbs./A) | %Oil Content |
| Seeds 2000/Nuseed | Camaro II    | CL, Nu     | 58                 | 58                    | 15,800           | 4.3       | 27.7                  | 38.9          | 548                | 1,405                        | 351                   | 1,784          | 39.1         |
| Seeds 2000/Nuseed | Cobalt II    | CL, HO     | 54                 | 47                    | 15,500           | 2.5       | 29.7                  | 38.3          | 576                | 1,503                        | 370                   | 1,425          | 39.1         |
| Seeds 2000/Nuseed | Daytona      | CL,HO      | 57                 | 49                    | 19,400           | 2.1       | 27.7                  | 37.4          | 516                | 1,382                        | 334                   | 1,486          | 38.4         |
| Seeds 2000/Nuseed | Falcon       | EX, Nu     | 55                 | 45                    | 18,300           | 7.3       | 29.9                  | 37.4          | 564                | 1,513                        | 365                   |                |              |
| Seeds 2000/Nuseed | Hornet       | CL, HO     | 61                 | 63                    | 17,100           | 5.2       | 26.9                  | 37.2          | 590                | 1,588                        | 382                   |                |              |
| Seeds 2000/Nuseed | NHK12M011    | CL, HO     | 59                 | 62                    | 17,800           | 7.6       | 26.5                  | 36.1          | 429                | 1,188                        | 279                   |                |              |
| Seeds 2000/Nuseed | NLK12M008    | CL, Nu     | 58                 | 56                    | 17,000           | 5.7       | 29.0                  | 37.8          | 566                | 1,496                        | 365                   |                |              |
| Seeds 2000/Nuseed | Sierra       | HO         | 59                 | 53                    | 16,600           | 6.9       | 25.2                  | 35.5          | 422                | 1,189                        | 276                   | 1,721          | 36.7         |
| Seeds 2000/Nuseed | Torino       | CL, Nu     | 58                 | 59                    | 15,900           | 2.7       | 29.9                  | 37.0          | 535                | 1,449                        | 347                   | 1,656          | 38.3         |
| Triumph Seed      | 662          | Nu         | 58                 | 57                    | 17,200           | 5.4       | 26.9                  | 37.7          | 515                | 1,366                        | 332                   | 1,714          | 37.6         |
| Triumph Seed      | 651 CLD      | CL, Nu     | 57                 | 51                    | 18,300           | 4.9       | 26.6                  | 35.5          | 539                | 1,522                        | 353                   | 1,808          | 38.2         |
| Triumph Seed      | 849 CLD      | CL, HO     | 57                 | 50                    | 15,400           | 7.2       | 31.1                  | 39.8          | 759                | 1,905                        | 484                   | 1,920          | 40.6         |
| Triumph Seed      | 859 CL       | HO         | 58                 | 58                    | 17,000           | 10.7      | 27.9                  | 38.8          | 496                | 1,278                        | 318                   |                |              |
| Triumph Seed      | s668         | SS, Nu     | 58                 | 42                    | 16,400           | 2.5       | 30.3                  | 41.1          | 574                | 1,397                        | 364                   | 1,644          | 41.0         |
| Triumph Seed      | s673         | SS, Nu     | 59                 | 40                    | 15,900           | 3.8       | 28.6                  | 40.1          | 677                | 1,690                        | 432                   | 1,841          | 40.9         |
| Triumph Seed      | s870 CL      | CL, SS, HO | 60                 | 37                    | 14,300           | 2.7       | 29.3                  | 40.3          | 507                | 1,253                        | 322                   | 1,735          | 40.8         |
| Triumph Seed      | TRXs 12435CF | CP, SS, HO | 57                 | 41                    | 13,500           | 2.3       | 27.1                  | 39.9          | 728                | 1,825                        | 465                   |                |              |
| <b>Average</b>    |              |            | 58                 | 51                    | 16,600           | 5         | 28.3                  | 38.2          | 561                | 1,468                        | 361                   |                |              |

|                                  |         |         |        |        |         |         |         |         |         |         |  |
|----------------------------------|---------|---------|--------|--------|---------|---------|---------|---------|---------|---------|--|
| P-Value (Hybrid)                 | <0.0001 | <0.0001 | 0.0008 | 0.0003 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |  |
| Fisher's Protected LSD (0.05)¶   | 1       | 5       | 2,300  | 3.7    | 1.7     | 1.3     | 91      | 233     | 58      |         |  |
| Coefficient of Variation, CV (%) | 3.3     | 17.0    | 12.5   | 66.6   | 6.8     | 4.9     | 18.7    | 16.6    | 18.1    |         |  |

†Nu = NuSun mid-oleic, HO = high oleic, EX = Express herb. tolerant, SS = short stature, CL = Clearfield herb. tolerant, CP = Clearfield Plus.

‡Typical market pricing in 2013 for Texas High Plains oilseed is \$25.50/cwt., with 2-for-1 pricing based on oilseed content at 40.0% oil.

¶Numbers in the same column that vary by more than the LSD are significantly different at the 95% confidence level.

**Trial Notes:**

Seasonal rainfall was 5.1" with furrow irrigation of 12". Sunflower head moth control (Dupont Prevathon + Syngenta Warrior T) was applied 3 times to blanket the bloom period. Warrior T was added due to the presence of head clipping weevil, for which yields were adjusted for missing heads (in a few cases up to four heads per plot). Later season irrigation was reduced (one furrow irrigation) due to lack of water.

An adjacent confectionary sunflower hybrid trial yielded 1,723 lbs./A with an average crop value of \$614/acre.

For further information about this test or the Texas A&M AgriLife Crop Testing Program, contact Mr. Dennis Pietsch, Crop Testing director, Texas A&M AgriLife Research, College Station, TX, (979) 845-8505, [dpietsch@ag.tamu.edu](mailto:dpietsch@ag.tamu.edu)

Please visit the Crop Testing webpage at <http://varietytesting.tamu.edu> for sunflower and other crop hybrid information.

For additional sunflower production resources for Texas contact Extension agronomist Dr. Calvin Trostle, Lubbock, Texas A&M AgriLife Extension Service, Lubbock, (806) 746-6101, [ctrostle@ag.tamu.edu](mailto:ctrostle@ag.tamu.edu), or visit <http://lubbock.tamu.edu/sunflower>