

## 2007 Dryland Oil Sunflower Variety Performance Trial at Brandon <sup>1</sup>.

| Hybrid                             | Yield <sup>2</sup> | Moisture   | Test Weight | Plant Height | Density      | Lodging     | Oil Content  |
|------------------------------------|--------------------|------------|-------------|--------------|--------------|-------------|--------------|
|                                    | lb/ac              | %          | lb/bu       | inches       | plants/ac    | %           | %            |
| Dyna-Gro 94N82                     | 2445               | 5.5        | 27.6        | 55           | 14517        | 11.3        | 39.10        |
| Mycogen 8N453DM                    | 2442               | 5.4        | 31.5        | 60           | 12276        | 9.4         | 42.50        |
| Triumph TRXs7425HOCL               | 2318               | 5.3        | 24.9        | 42           | 14274        | 3.2         | 38.84        |
| Triumph R657                       | 2280               | 5.2        | 26.4        | 64           | 13721        | 12.8        | 41.09        |
| Triumph s678                       | 2274               | 5.2        | 30.4        | 54           | 15022        | 7.4         | 41.03        |
| Mycogen 8N510                      | 2267               | 5.4        | 28.3        | 49           | 13831        | 10.1        | 38.29        |
| DEKALB DKF38-45                    | 2234               | 5.2        | 28.3        | 50           | 13483        | 16.1        | 40.33        |
| DEKALB DKF37-31                    | 2215               | 5.5        | 27.8        | 51           | 11751        | 11.7        | 38.07        |
| Fontanelle 902 NS                  | 2190               | 5.5        | 27.6        | 57           | 11534        | 12.9        | 38.60        |
| Seeds 2000 Blazer-NS               | 2138               | 5.3        | 28.6        | 50           | 13040        | 10.2        | 40.66        |
| Triumph R664                       | 2138               | 5.4        | 28.2        | 60           | 14019        | 10.6        | 41.73        |
| Dyna-Gro FX07419                   | 2131               | 5.4        | 28.5        | 62           | 15791        | 19.3        | 38.48        |
| Triumph TRXs7426HO                 | 2093               | 5.5        | 29.7        | 54           | 13366        | 6.6         | 38.21        |
| Garst 4651NS                       | 2054               | 5.3        | 28.0        | 60           | 14821        | 15.6        | 39.40        |
| DEKALB DKF34-33                    | 2052               | 5.2        | 29.8        | 48           | 10830        | 18.1        | 39.87        |
| Monsanto MH6641                    | 2005               | 5.5        | 29.1        | 57           | 14332        | 12.1        | 36.01        |
| Seeds 2000 Sierra-HO               | 1993               | 5.5        | 26.7        | 57           | 15110        | 14.9        | 37.77        |
| Pioneer M91                        | 1969               | 5.2        | 30.1        | 53           | 10598        | 5.3         | 37.11        |
| Seeds 2000 Barracuda-CL-NS         | 1963               | 5.3        | 29.4        | 58           | 14036        | 8.3         | 40.53        |
| Triumph R859HOCL                   | 1953               | 5.4        | 27.7        | 60           | 12873        | 14.3        | 35.94        |
| Garst 4420NS                       | 1943               | 5.5        | 28.7        | 63           | 14629        | 9.3         | 37.16        |
| Fontanelle IS 4668                 | 1936               | 5.4        | 27.0        | 61           | 13225        | 18.8        | 36.17        |
| Mycogen 8N358CL                    | 1932               | 5.1        | 28.3        | 55           | 13943        | 18.6        | 39.40        |
| Dyna-Gro 94C38                     | 1928               | 5.4        | 26.8        | 55           | 15106        | 19.1        | 35.56        |
| Mycogen 8N337DM                    | 1921               | 5.0        | 29.1        | 50           | 12350        | 13.3        | 40.37        |
| Dyna-Gro FX07519DM                 | 1918               | 5.5        | 27.3        | 51           | 13451        | 16.3        | 36.76        |
| DEKALB DKF34-80CL                  | 1896               | 5.3        | 27.2        | 46           | 12523        | 4.5         | 37.83        |
| Triumph 845HO                      | 1868               | 5.3        | 27.7        | 59           | 14674        | 13.5        | 41.35        |
| Mycogen 8H419CL                    | 1861               | 5.3        | 27.0        | 61           | 15086        | 11.1        | 37.92        |
| Monsanto MH6639                    | 1807               | 5.1        | 28.5        | 48           | 14457        | 19.9        | 40.55        |
| Advanta Pacific AP534NS/CL         | 1758               | 5.4        | 26.3        | 54           | 12799        | 7.7         | 35.39        |
| Fontanelle IS 5880                 | 1683               | 5.3        | 25.1        | 57           | 13782        | 13.9        | 37.02        |
| Monsanto MH6640                    | 1671               | 5.2        | 29.0        | 50           | 14340        | 21.6        | 41.16        |
| Garst XF06NS16                     | 1667               | 5.4        | 28.1        | 53           | 13751        | 12.0        | 36.16        |
| Monsanto MH6638                    | 1639               | 5.2        | 28.6        | 53           | 16044        | 23.5        | 40.76        |
| Mycogen 8N386CL                    | 1611               | 5.4        | 26.6        | 55           | 12573        | 6.1         | 35.91        |
| <b>Average</b>                     | <b>2005</b>        | <b>5.3</b> | <b>28.0</b> | <b>55</b>    | <b>13665</b> | <b>12.8</b> | <b>38.70</b> |
| <sup>3</sup> LSD <sub>(0.30)</sub> | 225                | 0.4        | 1.7         |              | 1485         |             |              |
| <sup>3</sup> LSD <sub>(0.05)</sub> | 428                | 0.7        | 3.3         |              | 2827         |             |              |

<sup>1</sup>Trial conducted on the Burl Scherler farm; seeded 6/18 and harvested 10/25/07.

<sup>2</sup>Yields corrected to 10% seed moisture.

<sup>3</sup>LSD<sub>(0.30)</sub> is more useful for producers using these results to select a variety but some seed company

collaborators wish to use  $LSD_{(0.05)}$ .

**Site Information**

Plot Size: 5' x 32' with 30" spacing

Experimental Design: randomized complete block, 4 replications

Seeding Rate: approximately 18,000 seeds/acre

Previous Crop: wheat

Soil Type: Fort Collins sandy loam

Fertilization: 63 lbs N acre<sup>-1</sup>; 20 lbs P<sub>2</sub>O<sub>5</sub> acre<sup>-1</sup>

Herbicide: Round-up, Spartan, Prowl H<sub>2</sub>O

Insecticide: Methyl Parathion, Mustang Max