



# SUNFLOWER HYBRID PERFORMANCE TRIALS

Rosendale 2024

Oil Sunflower markets – include birdfood, oil crush and de-hull. Variety selection becomes more important when trying to capture de-hull markets. Choose varieties with better de-hull ratio, larger size and higher test weight. Environment will contribute greatly to final product. Plant population and environment will contribute greatly to the final product. Percent (%) oil content was unavailable at press time, visit [www.mbcropalliance.ca](http://www.mbcropalliance.ca) for more details.

| OILS   |                                    |          |                              | ROSSENDALE 2024  |                 |                                       |                    |                                 |            |
|--|------------------------------------|----------|------------------------------|------------------|-----------------|---------------------------------------|--------------------|---------------------------------|------------|
| Hybrid   | Herbicide/<br>Disease<br>Tolerance | Oil Type | Company                      | Yield<br>(lb/ac) | Moisture<br>(%) | Maturity <sup>1</sup><br>(days to R9) | Height<br>(inches) | Test Wt <sup>2</sup><br>(lb/bu) | Oil<br>(%) |
| CP432E   | ExSun                              | NS       | Winfield United /<br>CROPLAN | 2461             | 101.0           | --                                    | 68                 | 31.2                            | 41.4       |
| CP455E   | ExSun                              | HO       | Winfield United /<br>CROPLAN | 2222             | 11.0            | --                                    | 73                 | 29.8                            | 40.5       |
| P63ME80  | ExSun/DM                           | NS       | Pioneer Hi-Bred              | 1997             | 10.9            | --                                    | 69                 | 30.6                            | 44.4       |
| P63HE501   | ExSun                              | HO       | Pioneer Hi-Bred              | 2365             | 10.8            | --                                    | 72                 | 31.6                            | 43.6       |
| N4HM354  | CL/DM                              | NS       | Nuseed                       | 2460             | 11.5            | --                                    | 66                 | 32.0                            | 47.7       |
| N4H161 CL  | CL/DM                              | HO       | Nuseed                       | 1363             | 11.8            | --                                    | 48                 | 31.0                            | 39.3       |
| <b>Experimental lines being tested/proposed for registration in Canada</b> |                                    |          |                              |                  |                 |                                       |                    |                                 |            |
| N4H134 E   | ExSun/DM                           | HO       | Nuseed                       | 1592             | 9.3             | --                                    | 48                 | 32.6                            | 39.7       |
| N4H337 E   | ExSun/DM                           | HO       | Nuseed                       | 2227             | 11.5            | --                                    | 73                 | 29.9                            | 45.7       |
| Badger DMR   | CL/DM                              | Conoil   | Nuseed                       | 1887             | 8.8             | --                                    | 65                 | 30.0                            | 38.5       |
| AC2101   | CL Plus                            | HO       | RAGT Semences                | 1441             | 10.9            | --                                    | 73                 | 27.3                            | 39.4       |
| N4H205 E   | ExSun/DM                           | HO       | Nuseed                       | 1760             | 12.1            | --                                    | 64                 | 29.0                            | 46.1       |
| P63HE920   | ExSun                              | HO       | Pioneer Hi-Bred              | 2187             | 14.7            | --                                    | 71                 | 33.0                            | 42.9       |
| Site Average   |                                    |          |                              | 1997             | 11.1            | --                                    | 66                 | 30.7                            |            |
| CV%  |                                    |          |                              | 9.8              | 9.2             | --                                    | 5                  | 4.1                             |            |
| Sign Diff  |                                    |          |                              | Yes              | Yes             | --                                    | Yes                | Yes                             |            |
| LSD (0.05)   |                                    |          |                              | 333              | 1.7             | --                                    | 6                  | 2.1                             |            |
| Planting Date  | May 31, 2024                       |          |                              |                  |                 |                                       |                    |                                 |            |
| Desiccation Date   |                                    |          |                              |                  |                 |                                       |                    |                                 |            |
| Harvest Date   | October 19, 2024                   |          |                              |                  |                 |                                       |                    |                                 |            |

<sup>1</sup> Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.  
<sup>2</sup> Test weights are reported in lbs per Avery (Canadian) bushel.  
 Refer to the MCA website at [www.mbcropalliance.ca](http://www.mbcropalliance.ca) for more details.

All sunflowers varieties listed are susceptible to sclerotinia and sunflower rust strains present in Manitoba. Genetic resistance to verticillium wilt is rated as moderately susceptible to moderately resistant for all sunflower varieties presented. Plant population and environment will contribute greatly to the final product.

| NON-OILS   |                  |         |               | ROSSENDALE 2024 |                       |        |                                      |        |        |                                    |
|--|------------------|---------|---------------|-----------------|-----------------------|--------|--------------------------------------|--------|--------|------------------------------------|
| Hybrid   | Genetic<br>Trait | Company | Yield (lb/ac) | Moisture<br>(%) | Maturity <sup>1</sup> | Height | 2023 Seeding Sizing (%) <sup>2</sup> |        |        | Test Wgt <sup>3</sup><br>(lb/bu A) |
|  |                  |         |               |                 |                       |        | >22/64                               | >20/64 | <20/64 |                                    |
| 6946 DMR   | DMR              | Nuseed  | 1485          | 10              | --                    | 69     | 21                                   | 45     | 27     | 22.4                               |
| MCA 359239   | ExSun            | MCA     | 2343          | 10.3            | --                    | 70     | 91                                   | 6      | 3      | 22.5                               |
| MCA 359306   | ExSun            | MCA     | 2122          | 10.3            | --                    | 65     | 87                                   | 8      | 5      | 21.7                               |
| <b>Experimental lines being tested/proposed for registration in Canada</b> |                  |         |               |                 |                       |        |                                      |        |        |                                    |
| NJKM65823  | CL/DM            | Nuseed  | 1779          | 9.7             | --                    | 65     | 62                                   | 26     | 12     | 23.6                               |
| N6L377 CL  | CL/DM            | Nuseed  | 1994          | 11.0            | --                    | 63     | 76                                   | 17     | 8      | 21.1                               |
| Site Average   |                  |         | 1945          | 10.3            | --                    | 66     | --                                   | --     | --     | 22.3                               |
| CV %   |                  |         | 11.40         | 9.37            | --                    | 2.40   | --                                   | --     | --     | 4.18                               |
| Sign Diff  |                  |         | Yes           | No              | --                    | Yes    | --                                   | --     | --     | No                                 |
| LSD (0.05)   |                  |         | 418           | --              | --                    | 3      | --                                   | --     | --     | --                                 |
| Planting Date  | May 29, 2024     |         |               |                 |                       |        |                                      |        |        |                                    |
| Desiccation Date   | ---              |         |               |                 |                       |        |                                      |        |        |                                    |
| Harvest Date   | October 16, 2024 |         |               |                 |                       |        |                                      |        |        |                                    |

<sup>1</sup> Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.  
<sup>2</sup> Totals may not add to 100% due to rounding.  
<sup>3</sup> Test weights are reported in lbs per Avery (Canadian) bushel.  
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