

SUNFLOWERS - CONFECTIONARY TYPE

Comments:

These varieties were tested and data donated by the Manitoba Crop Alliance (MCA).

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.

Variety Descriptions

| Company | Hybrid | Genetic Traits ¹ | Site Years | Yield % Check | Maturity ² (+/- check) | Height (+/- check) | Seed Sizing (%) ³ | | |
|--|-------------|-----------------------------|------------|---------------|-----------------------------------|--------------------|------------------------------|--------|--------|
| | | | | | | | >22/64 | >20/64 | <20/64 |
| NuSeed | 6946 DMR | DM | 34 | 100 | 0 | 0 | 20 | 39 | 41 |
| NuSeed | Panther DMR | DM | 42 | 99 | 0 | -2 | 41 | 31 | 28 |
| Experimental lines tested/proposed for registration in Canada | | | | | | | | | |
| CHS Sunflower | 20-EXP3 | ExSun | 6 | 95 | 5 | 0 | 58 | 28 | 14 |
| CHS Sunflower | 21-EXP1 | ExSun | 6 | 91 | 7 | 2 | 37 | 36 | 27 |
| MCA | EX 20057 | ExSun | 3 | 93 | 1 | 1 | 57 | 22 | 21 |
| MCA | EX 20306 | ExSun | 3 | 87 | 0 | -2 | 71 | 17 | 12 |
| MCA | EX 200239 | ExSun | 3 | 84 | 1 | 2 | 77 | 14 | 9 |
| MCA | EX 359239 | ExSun | 3 | 85 | 2 | 4 | 79 | 12 | 10 |
| MCA | EX 570309 | ExSun | 3 | 92 | -2 | 2 | 48 | 22 | 30 |
| NuSeed | NJKE05926 | ExSun | 3 | 92 | -1 | -2 | 4 | 13 | 83 |
| NuSeed | NJKM65823 | CL | 3 | 84 | 6 | 0 | 28 | 39 | 33 |
| NuSeed | NDKM15700 | CL | 3 | 94 | 2 | -5 | 46 | 29 | 25 |
| NuSeed | NDKM16761 | CL | 3 | 88 | 4 | -3 | 35 | 35 | 30 |
| CHECK CHARACTERISTICS | | | | | | | | | |
| 6946 DMR | | | 34 | 2977 | 121 | 64 | | | |
| | | | site years | lb/ac | days | inches | | | |

1 Genetic traits include CL = Clearfield tolerance; ExSun = Express tolerance; DM = Downy Mildew Resistance.

2 Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.

3 Totals may not add to 100% due to rounding; information based off single year data for three sites at Carberry, Elm Creek, and Rossendale.

Refer to the MCA website at www.mbcropalliance.ca for more details.

SUNFLOWERS - OIL TYPE

Comments:

These varieties were tested and data donated by the Manitoba Crop Alliance (MCA).

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.

Visit www.mbcropalliance.ca for more detail.

Variety Descriptions

| Company | Variety | Herbicide/Disease Tolerance ¹ | Site Years | Yield (% check) | Maturity ² (+/- check) | Height (+/- check) | Oil Type ³ | Test Weight ⁴ (lb/bu) | Oil (%) |
|--|-----------|--|------------|-----------------|-----------------------------------|--------------------|-----------------------|----------------------------------|---------|
| WinField United CROPLAN | CP432E | ExSun | 9 | 108 | -2 | -1 | NS | 28.9 | 44.1 |
| WinField United CROPLAN | CP455E | ExSun | 9 | 118 | 4 | 1 | HO | 28.2 | 45.2 |
| NuSeed | N4H302 E | ExSun | 13 | 94 | -2 | 2 | HO | 28.0 | 44.9 |
| Corteva | P63HE60 | ExSun / DM | 19 | 99 | -2 | -3 | HO | 31.0 | 45.5 |
| Corteva | P63ME80 | ExSun / DM | 22 | 100 | 0 | 0 | NS | 30.6 | 48.1 |
| NuSeed | Talon | ExSun | 22 | 102 | -3 | -3 | NS | 27.8 | 44.1 |
| Experimental lines tested/proposed for registration in Canada | | | | | | | | | |
| NuSeed | Camaro II | CL | 3 | 106 | 5 | 3 | NS | 29.5 | 47.4 |
| NuSeed | N4H161 CL | CL | 7 | 97 | -10 | -11 | HO | 29.4 | 44.4 |
| Corteva | P63HE501 | ExSun | 9 | 104 | 0 | 1 | HO | 28.9 | 43.2 |
| Corteva | P63HE920 | ExSun | 3 | 102 | 6 | -1 | HO | 29.6 | 43.1 |
| NuSeed | X4219 | ExSun | 3 | 98 | 2 | -1 | NS | 29.9 | 46.4 |
| CHECK CHARACTERISTICS | | | | | | | | | |
| P63ME80 | | | 22 | 2897 | 125 | 63 | | | |
| | | | site years | lb/ac | days | inches | | | |

1 Genetic traits include CL = Clearfield herbicide tolerance; ExSun = Express SG herbicide tolerance; DM = Downy Mildew Resistance.

2 Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.

3 Oil Type designations are NS=NuSun; HO=High Oleic; CO = ConOil

4 Test weights reported in lbs per Avery (Canadian) bushel.