

# SUNFLOWERS - OIL TYPE

## Comments:

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

Oil sunflower markets include bird food, 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.

Per cent (%) oil content was unavailable at press time, visit [mbcropalliance.ca](http://mbcropalliance.ca) for more detail.

## Variety Descriptions

Company	Variety	Herbicide/Disease Tolerance <sup>1</sup>	Site Years	Yield (% check)	Maturity <sup>2</sup> (+/- check)	Height (+/- check, inches)	Oil Type <sup>3</sup>	Test Weight <sup>4</sup>
WinField United   CROPLAN	CP432E	ExSun	20	105	-1	-2	NS	29.3
WinField United   CROPLAN	CP455E	ExSun	20	114	3	0	HO	28.4
Nufarm	N4H161 CL	CL/ExSun	18	95	-9	-13	HO	29.8
Nufarm	N4H205 E	ExSun	7	108	-3	-5	HO	27.5
Nufarm	N4H493 CL	CL	3	99	-2	-2	CO	24.3
Nufarm	N4HM354	CL	29	112	0	-4	NS	30.0
Pioneer Hi-Bred	P63HE501	ExSun	20	106	0	0	HO	30.3
Pioneer Hi-Bred	P63HE920	ExSun	14	108	4	0	HO	30.8
Pioneer Hi-Bred	P63ME80	ExSun/DM	33	100	0	0	NS	29.8

## CHECK CHARACTERISTICS

P63ME80	33 site years	2667 lb/ac	125 days	62 inches
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<sup>1</sup> Genetic traits include CL = Clearfield herbicide tolerance; ExSun = Express SG herbicide tolerance; DM = Downy Mildew Resistance.

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

<sup>3</sup> Oil Type include NS=NuSun; HO=High Oleic; CO = ConOil

<sup>4</sup> Test weights reported in lbs per Avery (Canadian) bushel.

## Site Comparisons

Hybrid	St. Agathe					Beausejour					Melita				
	Yield (lbs/acre)	Moisture (%)	Maturity (days to R9)	Height (inches)	Test Wt <sup>2</sup> (lb/bu)	Yield (lbs/acre)	Moisture (%)	Maturity <sup>1</sup> (days to R9)	Height (inches)	Test Wt <sup>2</sup> (lb/bu)	Yield (lbs/acre)	Moisture (%)	Maturity <sup>1</sup> (days to R9)	Height (inches)	Test Wt <sup>2</sup> (lb/bu)
CP432E	2078	10	---	52	29	2291	10	137	45	23	2907	12	131	67	30
CP455E	2179	12	---	54	27	2549	11	144	54	23	3096	14	131	76	29
N4H161 CL	2110	11	---	39	31	1827	13	114	33	24	2795	14	130	58	29
N4H205 E	2887	12	---	51	27	1578	11	138	46	21	3220	12	127	72	26
N4H493 CL	2388	11	---	53	25	2191	11	138	52	21	3577	14	129	76	27
N4HM354	2631	13	---	50	30	2107	11	133	43	24	3022	13	130	69	30
P63HE501	2465	10	---	58	29	2388	11	139	50	25	3178	12	130	74	29
P63HE920	2786	11	---	60	29	2027	12	140	49	24	3481	15	133	77	33
P63ME80	2779	10	---	63	26	2319	13	140	50	22	3101	12	133	74	30
<b>Site Grand Mean</b>	2478	11.0	---	53.3	28	2142	11	136	47	23	3153	13	29.1	71.3	29.1
<b>CV%</b>	10.1	15.8	---	8.5	4.0	14.5	13.9	1.4	8.7	3.2	5.2	9.2	2.5	4.1	2.5
<b>Sign Diff</b>	Yes	Yes	---	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>LSD (0.05)</b>	432	3.0	---	8	2.0	539	3	3	7.0	1	282	2	1	5	1
<b>Planting Date</b>	28-May					23-May					16-May				
<b>Desiccation Date</b>	3-Oct					3-Oct					3-Oct				
<b>Harvest Date</b>	10-Oct					10-Oct					14-Oct				

<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.

<sup>3</sup> Totals may not add to 100% due to rounding.

Refer to the MCA website at [mbcropalliance.ca](http://mbcropalliance.ca) for more details.