



# SUNFLOWER HYBRID PERFORMANCE TRIALS

Beausejour 2023

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				BEAUSEJOUR 2023					
Hybrid	Herbicide/ Disease Tolerance	Oil Type	Company	Yield (lb/ac)	Moisture (%)	Maturity <sup>1</sup> (days to R9)	Height (inches)	Test Wt <sup>2</sup> (lb/bu)	Oil (%)
CP432E	ExSun	NS	WinField United / CROPLAN	2989	13.0	117	58	31.6	48.0
CP455E	ExSun	HO	WinField United / CROPLAN	3182	14.3	124	56	31.3	46.7
N4H302 E	ExSun	HO	Nuseed	2907	13.9	123	52	27.9	46.4
P63HE60	ExSun/DM	HO	Pioneer Hi-Bred	2941	13.8	120	60	31.7	47.0
P63ME80	ExSun/DM	NS	Pioneer Hi-Bred	2619	13.9	123	56	29.5	50.4
P63HE501	ExSun	HO	Pioneer Hi-Bred	3047	13.4	118	55	30.1	44.9
Talon	ExSun/DM	NS	Nuseed	3273	12.7	117	55	28.3	46.6
N4HM354	CL	NS	Nuseed	3288	15.9	123	49	31.1	48.3
N4H161 CL	CL	HO	Nuseed	3566	15.9	111	40	33.7	44.6
<b>Experimental lines being tested/proposed for registration in Canada</b>									
N4H202 E	ExSun	NS	Nuseed	3182	12.4	121	48	27.2	49.2
N4L215 E	ExSun	NS	Nuseed	2675	12.6	123	48	27.7	49.0
AC2301	IMI Plus	HO	RAGT SEMENCES	2828	13.2	123	64	27.3	46.8
NSC-SF83	--	NS	NorthStar Genetics	2622	14.9	125	59	31.6	44.1
NSC-SF92	--	NS	NorthStar Genetics	4046	16.2	126	65	31.5	45.1
P63HE920	ExSun	HO	Pioneer Hi-Bred	2693	14.9	124	59	34.1	46.6
<b>Site Average</b>				3065	14	121	55	-	-
<b>CV%</b>				10.87	7.46	0.93	8.15	-	-
<b>Sign Diff</b>				Yes	Yes	Yes	Yes	-	-
<b>LSD (0.05)</b>				556	1.8	2	7	-	-
<b>Planting Date</b>				May 16, 2023					
<b>Desiccation Date</b>									
<b>Harvest Date</b>				October 10, 2023					

1 Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.  
2 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				BEAUSEJOUR 2023							
Hybrid	Genetic Trait	Company	Yield (lb/ac)	Moisture (%)	Maturity <sup>1</sup> (days to R9)	Height (inches)	Lodging <sup>2</sup> (1-9)	2023 Seeding Sizing (%) <sup>3</sup>			Test Wgt <sup>4</sup> (lb/bu A)
								>22/64	>20/64	<20/64	
6946 DMR	DM	Nuseed	2698	11.3	117	55	2.5	12	41	46	25.5
Panther DMR	DM	Nuseed	3151	11.9	117	52	1.0	41	41	18	24.3
<b>Experimental lines being tested/proposed for registration in Canada</b>											
EX 359239	ExSun	MCA	3078	11.6	118	60	1.0	89	6	6	24.8
EX 20306	ExSun	MCA	3118	10.8	114	52	1.0	83	11	6	24.0
EX 200239	ExSun	MCA	3208	11.2	117	60	1.0	82	13	5	24.9
NJKM65823	IMI	Nuseed	2677	12.2	119	53	3.2	56	28	15	23.0
NDKM15700	IMI	Nuseed	2937	10.3	113	52	1.2	66	25	9	21.2
NDKM16761	IMI	Nuseed	2268	10.6	114	52	1.3	48	35	18	21.5
<b>Site Average</b>			2892	11.2	116	55	1.5	-	-	-	23.6
<b>CV %</b>			7.00	2.76	1.46	5.85	24.33	-	-	-	3.12
<b>Sign Diff</b>			Yes	Yes	Yes	Yes	Yes	-	-	-	Yes
<b>LSD (0.05)</b>			355	0.5	3	6	0.6	-	-	-	1.3
<b>Planting Date</b>			May 16, 2023								
<b>Desiccation Date</b>			September 22, 2023								
<b>Harvest Date</b>			October 11, 2023								

1 Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.  
2 Lodging score is 1=0%; 3=30% lodged  
3 Totals may not add to 100% due to rounding  
4 Test weights are reported in lbs per Avery (Canadian) bushel.  
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