



# SUNFLOWER HYBRID PERFORMANCE TRIALS

Rosendale 2023

Oil Sunflower markets – include birdfeed, 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 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	2550	6.7	112	44	29.8	43.9
CP455E	ExSun	HO	WinField United / CROPLAN	2754	6.9	117	47	28.4	42.5
N4H302 E	ExSun	HO	Nuseed	2442	6.7	113	45	27.4	45.2
P63HE60	ExSun/DM	HO	Pioneer Hi-Bred	2498	6.7	114	46	31.9	45.0
P63ME80	ExSun/DM	NS	Pioneer Hi-Bred	2567	6.7	115	46	30.4	45.4
P63HE501	ExSun	HO	Pioneer Hi-Bred	2705	6.8	112	45	28.0	42.7
Talon	ExSun/DM	NS	Nuseed	2151	6.9	108	43	23.9	40.7
N4HM354	CL	NS	Nuseed	2261	6.7	114	46	31.3	45.9
N4H161 CL	CL	HO	Nuseed	2523	6.6	103	41	31.0	42.8
Experimental lines being tested/proposed for registration in Canada									
N4H202 E	ExSun	NS	Nuseed	2533	6.7	111	44	27.9	46.3
N4L215 E	ExSun	NS	Nuseed	2231	6.8	110	44	26.9	44.4
AC2301	IMI Plus	HO	RAGT SEMENCES	2523	6.9	119	47	27.1	42.2
NSC-SF83	---	NS	NorthStar Genetics	2655	7.0	113	45	32.3	42.5
NSC-SF92	---	NS	NorthStar Genetics	2712	6.9	116	46	30.5	45.0
P63HE920	ExSun	HO	Pioneer Hi-Bred	2637	6.9	119	48	32.4	44.0
Site Average				2516	6.8	113	45	29.3	
CV%				10.6	3.3	1	1	5.1	
Sign Diff				No	No	Yes	Yes	Yes	
LSD (0.05)				--	--	2	1	2.5	
Planting Date				May 31, 2023					
Desiccation Date									
Harvest Date				October 19, 2023					

<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 2023			
Hybrid	Genetic Trait	Company	Yield (lb/ac)	Moisture (%)	Maturity <sup>1</sup>	Height	2023 Seeding Sizing (%) <sup>2</sup>			Test Wgt <sup>3</sup> (lb/bu A)
							>22/64	>20/64	<20/64	
6946 DMR	DM	Nuseed	--	--	--	--	-	-	-	-
Panther DMR	DM	Nuseed	2105	8.6	103	61	42	20	38	19.0
Experimental lines being tested/proposed for registration in Canada										
EX 359239	ExSun	MCA	2150	8.8	106	67	89	2	8	19.2
EX 20306	ExSun	MCA	2154	8.7	104	57	83	5	11	18.8
EX 200239	ExSun	MCA	2183	8.7	106	68	87	3	10	18.7
NJKM65823	IMI	Nuseed	2220	8.9	116	68	43	34	23	20.9
NDKM15700	IMI	Nuseed	1970	8.8	103	57	67	21	13	16.8
NDKM16761	IMI	Nuseed	2030	8.5	104	59	66	23	10	19.3
Site Average			2116	8.7	106	62	-	-	-	18.9
CV %			14.90	3.53	1.89	8.55	-	-	-	8.53
Sign Diff			No	No	Yes	No	-	-	-	No
LSD (0.05)			574	-	4	-	-	-	-	-
Planting Date			May 31, 2023							
Desiccation Date			---							
Harvest Date			October 19, 2023							

<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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