



# SUNFLOWER HYBRID PERFORMANCE TRIALS

Elm Creek 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									ELM CREEK 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	1760	7.4	110	46	29.1	44.3
CP455E	ExSun	HO	WinField United / CROPLAN	1627	7.3	115	48	28.5	42.0
N4H302 E	ExSun	HO	Nuseed	1394	7.2	114	52	28.5	44.8
P63HE60	ExSun/DM	HO	Pioneer Hi-Bred	1354	7.3	114	50	28.7	44.9
P63ME80	ExSun/DM	NS	Pioneer Hi-Bred	1617	7.3	118	52	28.9	45.1
P63HE501	ExSun	HO	Pioneer Hi-Bred	1947	7.4	112	51	28.9	44.1
Talon	ExSun/DM	NS	Nuseed	1672	7.6	109	48	26.7	43.1
N4HM354	CL	NS	Nuseed	1823	7.4	112	52	29.9	46.4
N4H161 CL	CL	HO	Nuseed	1547	7.1	103	34	31.8	45.0
Experimental lines being tested/proposed for registration in Canada									
N4H202 E	ExSun	NS	Nuseed	1510	6.8	112	44	28.3	46.7
N4L215 E	ExSun	NS	Nuseed	1445	7.5	110	44	27.8	44.6
AC2301	IMI Plus	HO	RAGT SEMENCES	1762	7.2	118	51	27.7	42.8
NSC-SF83	--	NS	NorthStar Genetics	1911	7.2	114	56	31.0	47.7
NSC-SF92	--	NS	NorthStar Genetics	1876	7.9	120	59	29.0	44.7
P63HE920	ExSun	HO	Pioneer Hi-Bred	1527	7.8	116	50	31.9	44.0
Site Average				1651	7.4	113	49	29.3	
CV%				9.2	7.7	1	5	3.4	
Sign Diff				Yes	No	Yes	Yes	Yes	
LSD (0.05)				253	-	2	4	1.7	
Planting Date				June 2, 2023					
Desiccation Date									
Harvest Date				October 20, 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							ELM CREEK 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>
							>22/64	>20/64	<20/64	(lb/bu A)
6946 DMR	DM	Nuseed	1447	9	110	45	5	19	76	24
Panther DMR	DM	Nuseed	1608	8.9	108	40	13	27	60	21.0
Experimental lines being tested/proposed for registration in Canada										
EX 359239	ExSun	MCA	1642	9.1	114	50	43	32	25	23.1
EX 20306	ExSun	MCA	1633	8.8	110	46	34	33	33	23.2
EX 200239	ExSun	MCA	1645	8.9	114	50	32	29	39	22.7
NJKM65823	IMI	Nuseed	1404	8.5	118	43	8	32	60	24.5
NDKM15700	IMI	Nuseed	1479	8.7	109	39	13	36	51	23.7
NDKM16761	IMI	Nuseed	1424	8.8	110	48	8	32	60	21.7
Site Average			1535	8.8	112	45				23.0
CV %			5.49	3.0	1.43	8.15				5.7
Sign Diff			Yes	No	Yes	Yes				No
LSD (0.05)			148	-	3	6				-
Planting Date			June 2, 2023							
Desiccation Date			---							
Harvest Date			October 20, 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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