



SUNFLOWER HYBRID PERFORMANCE TRIALS

Elm Creek 2022

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 for more details.

OILS							ELM CREEK 2022		
Hybrid	Herbicide/Disease Tolerance ¹	Oil Type ²	Company	Yield (lb/ac)	Moisture (%)	Maturity ³ (days to R9)	Height (inches)	Test Wt ⁴ (lb/bu)	Oil (%)
P63HE60	ExSun/DM	HO	Pioneer HI-Bred	2861	10.5	114	65	29.2	46.9
P63ME80	ExSun/DM	NS	Pioneer HI-Bred	2980	11.0	118	69	29.0	47.8
N4H302 E	ExSun	HO	Nuseed	2587	10.4	117	62	26.7	43.9
Talon	ExSun	NS	Nuseed	2734	10.1	112	61	25.1	43.4
CP432E	ExSun	NS	WinField United CROPLAN	2789	8.6	115	62	29.8	45.8
CP455E	ExSun	HO	WinField United CROPLAN	3064	11.6	119	62	28.9	45.9
Experimental lines being tested/proposed for registration in Canada									
P63HE501	ExSun	HO	Pioneer HI-Bred	2774	10.1	119	66	30.2	43.0
P63HE920	ExSun	HO	Pioneer HI-Bred	3191	10.9	120	64	31.8	44.5
N4H161 CL	CL	HO	Nuseed	2494	11.2	110	44	29.6	40.8
Camaro II	CL	NS	Nuseed	2945	13.0	121	67	29.7	46.4
X4219	ExSun	NS	Nuseed	2718	11.2	119	61	30.3	46.0
Site Average				2831	10.8	117	62	29.1	
CV%				6.97	10.16	0.77	2.77	2.33	
Sign Diff				Yes	Yes	Yes	Yes	Yes	
LSD (0.05)				336	1.9	2	3	1.2	
Planting Date				June 6, 2022					
Desiccation Date									
Harvest Date				October 31, 2022					

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

² Oil Type designations are NS=NuSun; HO=High Oleic; CO = ConOil

³ Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.

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

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 2022			
Hybrid	Genetic Trait ³	Company	Yield (lb/ac)	Moisture (%)	Maturity ¹	Height	2022 Seeding Sizing (%) ²			Test Wgt ⁴ (lb/bu A)
							>22/64	>20/64	<20/64	
6946 DMR	DM	Nuseed	3006	9.0	112	63	26	40	34	24.6
Panther DMR	DM	Nuseed	2427	10.2	113	58	53	29	19	24.0
Experimental lines being tested/proposed for registration in Canada										
EX 570309	ExSun	MCA	2509	9.1	113	60	53	15	32	24.2
EX 359239	ExSun	MCA	2583	10.0	120	66	88	6	6	22.3
EX 20057	ExSun	MCA	2450	9.1	117	61	76	13	12	24.0
EX 20306	ExSun	MCA	2434	9.0	116	56	85	10	5	23.3
EX 200239	ExSun	MCA	2573	10.3	114	66	89	6	6	23.7
NJKE05926	ExSun	Nuseed	2494	9.2	111	59	10	12	78	26.9
NJKM65823	IMI	Nuseed	2282	10.3	119	58	51	33	16	23.7
NDKM15700	IMI	Nuseed	2708	9.8	114	56	70	16	14	22.0
NDKM16761	IMI	Nuseed	2331	9.0	118	55	55	31	14	22.2
20-EXP3	ExSun	CHS Sunflower	2465	9.8	118	58	72	21	7	22.5
21-EXP1	ExSun	CHS Sunflower	2222	11.8	120	61	40	39	21	19.4
Site Average			2499	9.7	116	60				23.3
CV %			6.10	7.82	0.92	3.17				3.39
Sign Diff			Yes	Yes	Yes	Yes				Yes
LSD (0.05)			257	1.3	2	3				1.3
Planting Date			June 6, 2022							
Desiccation Date										
Harvest Date			October 31, 2022							

¹ Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.

² Totals may not add to 100% due to rounding.

³ Genetic traits include CL = Clearfield tolerance; ExSun = Express tolerance; DM = Downy Mildew Resistance.

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