SUNFLOWER HYBRID PERFORMANCE TRIALS

Elm Creek 2024

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 for more details.

OILS — ELM CREEK 2024

Hybrid	Herbicide/ Disease Tolerance	Oil Type	Company	Yield (lb/ac)	Moisture (%)	Maturity[1] (days to R9)	Height (inches)	Test Wt[2] (lb/bu)	Oil (%)
CP432E	ExSun	NS	Winfield United / CROPLAN	1661	7.1	--	72	26.9	34.0
CP455E	ExSun	HO	Winfield United / CROPLAN	1947	8.0	--	75	24.1	36.3
P63ME80	ExSun/DM	NS	Pioneer Hi-Bred	1441	7.1	--	75	24.3	37.9
P63HE501	ExSun	HO	Pioneer Hi-Bred	1705	7.3	--	72	26.7	34.7
N4HM354	CL/DM	NS	Nuseed	2058	6.8	--	66	29.4	42.6
N4H161 CL	CL/DM	HO	Nuseed	1392	7.5	--	51	26.0	35.7
Experimental lines being tested/proposed for registration in Canada									
N4H134 E	ExSun/DM	HO	Nuseed	1241	7.3	--	47	27.7	37.5
N4H337 E	ExSun/DM	HO	Nuseed	2187	7.0	--	68	27.6	41.2
Badger DMR	CL/DM	Conoil	Nuseed	2228	7.5	--	74	22.4	28.4
AC2101	CL Plus	HO	RAGT Semences	1256	7.0	--	76	21.7	27.8
N4H205 E	ExSun/DM	HO	Nuseed	2308	6.9	--	66	28.3	43.6
P63HE920	ExSun	HO	Pioneer Hi-Bred	2012	8.1	--	70	27.0	37.2
Site Average				1786	7.3	--	68	26.0	
CV%				8.2	10.0	--	3	8.5	
Sign Diff				Yes	No	--	Yes	Yes	
LSD (0.05)				247	--	--	3	3.7	
Planting Date				May 29, 2024					
Desiccation Date									
Harvest Date				October 20, 2024					

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 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 2024

Hybrid	Genetic Trait	Company	Yield (lb/ac)	Moisture (%)	Maturity[1]	Height	2023 Seeding Sizing (%)[2]			Test Wgt[3]
							>22/64	>20/64	<20/64	(lb/bu A)
6946 DMR	DMR	Nuseed	2216	9.2	--	70	21	44	26	17.0
MCA 359239	ExSun	MCA	1988	9.9	--	73	92	4	5	19.4
MCA 359306	ExSun	MCA	2108	9.1	--	67	87	7	6	19.0
Experimental lines being tested/proposed for registration in Canada										
NJKM65823	CL/DM	Nuseed	1861	9.4	--	69	77	16	7	23.3
N6L377 CL	CL/DM	Nuseed	2200	9.7	--	65	67	18	15	20.6
Site Average			2074	9.5	112	69	--	--	--	19.9
CV %			6.59	9.2	1.43	4.50	--	--	--	9.0
Sign Diff			No	No	Yes	No	--	--	--	Yes
LSD (0.05)			--	--	3	--	--	--	--	3.5
Planting Date			May 29, 2024							
Desiccation Date			–––							
Harvest Date			October 21, 2024							

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