



SUNFLOWER HYBRID PERFORMANCE TRIALS

Carberry 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 for more details.

OILS								CARBERRY 2023	
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	1250	15.0	142	63	35.1	42.4
CP455E	ExSun	HO	WinField United / CROPLAN	2199	14.9	134	62	33.2	42.8
N4H302 E	ExSun	HO	Nuseed	1501	13.9	135	61	31.6	42.2
P63HE60	ExSun/DM	HO	Pioneer Hi-Bred	1336	15.0	136	57	33.2	42.9
P63ME80	ExSun/DM	NS	Pioneer Hi-Bred	1300	13.7	121	58	33.5	44.3
P63HE501	ExSun	HO	Pioneer Hi-Bred	1379	12.8	133	58	34.9	40.8
Talon	ExSun/DM	NS	Nuseed	1321	13.6	138	70	30.0	41.9
N4HM354	CL	NS	Nuseed	1404	13.0	135	58	35.4	44.6
N4H161 CL	CL	HO	Nuseed	1288	15.7	134	58	32.5	42.1
Experimental lines being tested/proposed for registration in Canada									
N4H202 E	ExSun	NS	Nuseed	1004	13.2	143	58	32.8	45.7
N4L215 E	ExSun	NS	Nuseed	1764	11.9	131	57	32.7	44.0
AC2301	IMI Plus	HO	RAGT SEMENCES	1373	12.9	136	60	33.6	43.0
NSC-SF83	--	NS	NorthStar Genetics	1306	15.3	129	58	34.9	41.8
NSC-SF92	--	NS	NorthStar Genetics	1452	15.6	136	60	32.8	42.1
P63HE920	ExSun	HO	Pioneer Hi-Bred	2123	14.2	141	61	35.0	41.1
Site Average				1467	14.0	135	60	-	-
CV%				10.14	6.54	5.59	6.41	-	-
Sign Diff				Yes	Yes	No	No	-	-
LSD (0.05)				249	1.5	-	6	-	-
Planting Date				May 10, 2023					
Desiccation Date									
Harvest Date				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 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								CARBERRY 2023		
Hybrid	Genetic Trait	Company	Yield (lb/ac)	Moisture (%)	Maturity ¹	Height	2023 Seeding Sizing (%) ²			Test Wgt ³ (lb/bu A)
							>22/64	>20/64	<20/64	
6946 DMR	DM	Nuseed	2110	15.7	124	48	-	-	-	24.7
Panther DMR	DM	Nuseed	2193	17.8	120	49				24.4
Experimental lines being tested/proposed for registration in Canada										
EX 359239	ExSun	MCA	2521	16.4	123	48				24.2
EX 20306	ExSun	MCA	2668	14.8	123	45				23.3
EX 200239	ExSun	MCA	2011	14.6	121	46				23.4
NJKM65823	IMI	Nuseed	2295	15.9	121	47				24.5
NDKM15700	IMI	Nuseed	2200	15.2	120	48				23.1
NDKM16761	IMI	Nuseed	2800	14.0	120	50				24.4
Site Average			2350	15.6	121	48				-
CV %			7.51	6.88	0.92	11.94				-
Sign Diff			Yes	Yes	Yes	No				-
LSD (0.05)			309	1.9	2	-				-
Planting Date			May 10, 2023							
Desiccation Date			---							
Harvest Date			October 10, 2023							

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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