



SUNFLOWER HYBRID PERFORMANCE TRIALS

Beausejour 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				BEAUSEJOUR 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	1362	23.8	--	57	32.5	43
CP455E	ExSun	HO	Winfield United / CROPLAN	1476	25.9	--	55	31.4	45
P63ME80	ExSun/DM	NS	Pioneer Hi-Bred	1187	25.6	--	57	30.9	43.1
P63HE501	ExSun	HO	Pioneer Hi-Bred	1352	21.0	--	61	33.7	47.8
N4HM354	CL/DM	NS	Nuseed	1400	23.2	--	53	34.1	40.1
N4H161 CL	CL/DM	HO	Nuseed	1092	20.4	--	44	33.4	39.5
Experimental lines being tested/proposed for registration in Canada									
N4H134 E	ExSun/DM	HO	Nuseed	991	17.9	--	45	32.0	47
N4H337 E	ExSun/DM	HO	Nuseed	1628	19.5	--	53	33.2	36.8
Badger DMR	CL/DM	Conoil	Nuseed	1730	19.8	--	57	32.1	43.7
AC2101	CL Plus	HO	RAGT Semences	975	24.3	--	58	30.2	46.5
N4H205 E	ExSun/DM	HO	Nuseed	1994	19.9	--	52	33.9	43.4
P63HE920	ExSun	HO	Pioneer Hi-Bred	1473	24.7	--	59	35.0	43.6
Site Average				1388	22	--	54	32.7	--
CV%				12.36	17.69	--	4.34	4.1	--
Sign Diff				Yes	No	--	Yes	Yes	--
LSD (0.05)				292	--	--	4	2.3	--
Planting Date				May 16, 2024					
Desiccation Date									
Harvest Date				October 10, 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				BEAUSEJOUR 2024						
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	DMR	Nuseed	1219	13.9	124	51	23	49	29	25.5
MCA 359239	ExSun	MCA	1204	15.7	126	58	71	21	8	24.3
MCA 359306	ExSun	MCA	1006	14.7	120	53	74	19	7	24.8
Experimental lines being tested/proposed for registration in Canada										
NJKM65823	CL/DM	Nuseed	1140	18.4	127	55	38	36	26	24.6
N6L377 CL	CL/DM	Nuseed	1336	17.1	126	54	59	25	16	22.2
Site Average			1181	16.0	125	54	--	--	--	24.3
CV %			5.90	6.43	1.19	4.83	--	--	--	3.18
Sign Diff			Yes	Yes	Yes	No	--	--	--	Yes
LSD (0.05)			139	1.9	3	--	--	--	--	1.5
Planting Date				May 29, 2024						
Desiccation Date				---						
Harvest Date				October 10, 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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