

## SUNFLOWERS - Non-Oil Type

### Variety Descriptions

Company	Hybrid	Genetic Traits*	Site Years	Yield %Check	Days to Maturity	Height (inches)	Seed Sizing		
							>22/64 inch	>20/64 inch	Medium
NuSeed America	6946	-	9	95	2	0	26	32	27
NuSeed America	6946 DMR	DM	15	100	0	0	39	30	30
NuSeed America	6950	-	9	102	3	2	25	30	35
NuSeed America	Jaguar	CL	9	95	3	0	60	21	12
NuSeed America	Jaguar DMR	CL/DM	9	108	0	5	64	21	10
NuSeed America	X9180 EX DMR	ExSun/DM	10	104	3	4	64	28	17
NuSeed America	Panther DMR	DM	12	101	0	-2	62	21	12
CHS Sunflower	RH400 CL	CL	12	96	3	4	42	34	17
NuSeed America	Sundance DMR	DM	5	96	3	5	27	26	37
<b>Experimental lines being tested/proposed for registration in Canada</b>									
CHS Sunflower	RH1130EX	ExSun	6	111	7	7	84	9	4
NSAC	2755	-	2	108	4	14	39	27	25
NSAC	9255	-	2	124	1	11	37	31	24
Dow Seed	E94305	-	3	111	3	7	78	10	8
CHS Sunflower	RH609CLP	CL	3	133	3	12	79	11	6
CHS Sunflower	RH1133 EX	CL	3	138	5	5	89	6	4
CHS Sunflower	15EXP02	CL	3	121	6	8	83	10	4
CHS Sunflower	15EXP03	CL	3	126	5	10	90	6	2
<b>CHECK CHARACTERISTICS</b>									
6496 DMR			15	3254	<b>117</b>	<b>67</b>			
			site years	lb/ac	<b>days</b>	<b>inches</b>			

\*Genetic traits include herbicide tolerance and Downy Mildew Resistance, where CL = Clearfield tolerance; ExSun = Express tolerance; DM = Downy Mildew Resistance. DMR varieties can still show symptoms in fields due to changes in races and prolonged wet conditions

### Comments:

These varieties were tested and data donated by the National Sunflower Association of Canada Inc.

### Disease Management:

All sunflowers currently available are susceptible to **sclerotinia** and all varieties presented in SEED MANITOBA 2016 have shown susceptibility to the **sunflower rust** strains present in Manitoba, as tested by Morden AAFC. Environmental conditions, presence of inoculum from previously infected crops will increase risk of crop infection. Losses from both rust and sclerotinia can reduce yields, test weight and can cause grading factor issues. To manage sclerotinia and rust, use of fungicides in combination with good agronomic practices such as lengthened crop rotations between sunflower crops (both sclerotinia and rust) and between other sclerotinia susceptible crops and sunflowers both in the fields and adjacent fields will help reduce inoculum and potential for infection. Genetic resistance to **verticillium wilt** is rated as moderately susceptible to moderately resistant for all sunflower varieties presented. Again, lengthened crop rotations between sunflower crops will reduce the inoculum in the soil and reduce potential for infection.

**SUNFLOWERS - Non-Oil Type**

Hybrid		Genetic Traits*		Elm Creek						
				Yield (lb/ac)	Maturity (days)	Moisture %	Test Wt (lb/bu A)	Sizing		
								22/64	20/64	16/64
6946 DMR	DM	2217	100	11.8	23.6	64	13	16		
Jaguar DMR	CL/DM	3350	102	10.6	23.1	77	13	5		
9180 DMR	ExSun/DM	3499	108	13.7	22.9	62	19	15		
Panther DMR	DM	3469	100	11.9	24.3	68	17	9		
<b>Experimental lines being tested/proposed for registration in Canada</b>										
RH1130EX	ExSun	3763	105	12.9	21	93	3	2		
2755	-	2821	112	12.6	21.1	51	25	16		
9255	-	3130	102	11.5	21.6	44	28	16		
E94305	-	3052	100	12.5	23	87	6	4		
RH609CLP	CL	2975	105	13	22.6	93	2	2		
RH1133 EX	CL	3620	105	14.6	19.5	92	2	2		
15EXP02	CL	3384	105	18.9	21.5	88	5	2		
15EXP03	CL	3255	105	11.4	21.5	95	1	1		
Site Average		3211	104							
CV%		10.5								
Sign Diff		Yes								
LSD (0.05)		578								
Planting Date		11-May								
Harvest Date		28-Sep								

Hybrid		Genetic Traits*		Melita*						
				Yield (lb/ac)	Maturity (days)	moisture %	Test Wt (lb/bu A)	Sizing		
								22/64	20/64	16/64
6946 DMR	CL/DM	2507	117	9.5	26.1	25	28	37		
Jaguar DMR	DM	2716	114	11.7	25.1	50	30	15		
9180 DMR	ExSun/DM	2814	117	9.7	24.7	33	33	26		
Panther DMR	DM	3410	110	11.7	27.2	22	33	41		
<b>Experimental lines being tested/proposed for registration in Canada</b>										
RH1130EX	ExSun	3003	123	11.8	23.0	81	14	3		
2755	-	-	-	-	-	-	-	-		
9255	-	-	-	-	-	-	-	-		
E94305	-	2347	120	13.1	24.0	61	19	13		
RH609CLP	CL	3113	115	9.9	24.3	44	37	12		
RH1133 EX	CL	3421	123	12.4	20.6	90	7	1		
15EXP02	CL	2732	123	10.7	23.2	40	41	16		
15EXP03	CL	3038	118	9	23.0	65	28	3		
Site Average		2910	118		23.3					
CV%		13.7								
Sign Diff		No								
LSD (0.05)		-								
Planting Date		1-Jun								
Harvest Date		19-Oct								

\*Site was desiccated at R9

\*Genetic traits include herbicide tolerance and Downy Mildew Resistance, where CL = Clearfield tolerance; ExSun = Express tolerance; DM = Downy Mildew Resistance. DMR varieites can still show symptoms in fields due to changes in races and prolonged wet conditions

Hybrid		Genetic Traits*		Holland*						
				Yield (lb/ac)	Maturity (days)	Moisture %	Test Wt (lb/bu A)	Sizing		
								22/64	20/64	16/64
6946 DMR	DM	2950	114	13.3	24.1	43	26	23		
Jaguar DMR	CL/DM	3607	116	12.3	23.6	63	22	11		
9180 DMR	ExSun/DM	3318	119	14.5	22.6	46	28	19		
Panther DMR	DM	3666	114	12.7	26	40	30	23		
<b>Experimental lines being tested/proposed for registration in Canada</b>										
RH1130EX	ExSun	3415	122	16.7	21.5	84	10	4		
2755	-	2775	118	15	21.6	26	29	34		
9255	-	3280	116	14.6	22.5	29	33	32		
E94305	-	3120	119	15.9	23.1	68	14	12		
RH609CLP	CL	4141	119	15.1	23.3	65	19	10		
RH1133 EX	CL	3582	118	18.1	20	85	9	5		
15EXP02	CL	3203	122	21	22.6	78	14	5		
15EXP03	CL	3366	122	15.3	22.1	84	11	3		
Site Average		3369	119							
CV%		12.0								
Sign Diff		Yes								
LSD (0.05)		683								
Planting Date		12-May								
Harvest Date		22-Sep								

## SUNFLOWERS - Oil Type

### Variety Descriptions

Company	Variety	Herbicide Tolerance	Site Years	YIELD			% Oil	Oil Type
				% Check	Days to Maturity	Height (inches)		
Dow Seed	8N270	CL / DM	3	88	-4	-8	1.7	NS
Syngenta Canada	3495 NS/CL/DM	CL / DM	7	101	1	-2	-2.0	NS
Pioneer Hi-Bred	63N82	ExSun	4	87	4	-2	0.6	NS
NuSeed America	Cobalt II	CL / DM	10	90	2	-4	-1.4	HO
NuSeed America	Defender Plus	DM	5	88	-3	-7	-2.7	NS
NuSeed America	Falcon EX	ExSun	9	92	2	-6	-0.1	NS
NuSeed America	Talon	ExSun	7	95	-1	-5	-3.4	NS
Pioneer Hi-Bred	P63ME70	ExSun / DM	12	100	0	0	0.0	NS
Pioneer Hi-Bred	P63ME80	ExSun / DM	12	97	3	1	0.1	NS
<b>Experimental lines being tested/proposed for registration in Canada</b>								
Dow Seed	E84131	CL / DM	3	96	-4	-8	1.6	HO
NuSeed America	NLK12S069	ExSun	4	101	0	1	-6.3	NS
AAFC-USDA	Honeycomb NS	-	3	86	-16	-12	-5.0	NS
AAFC-USDA	Honeycomb HO	-	3	86	-3	-7	-3.5	HO
AAFC-USDA	Wishbone	-	3	72	0	6	-4.5	NS
<b>CHECK CHARACTERISTICS</b>								
P63ME70			12	3535	122	71	42.7	
			site years	lb/ac	days	inches	%	

\*Genetic traits include herbicide tolerance and Downy Mildew Resistance, where CL = Clearfield tolerance; ExSun = Express tolerance; DM = Downy Mildew Resistance. DMR varieites can still show symptoms in fields due to changes in races and prolonged wet conditions

## SUNFLOWERS - Oil Type

Hybrid	Genetic Traits*	Elm Creek				Holland*				Melita*			
		Yield (lb/ac)	Maturity	%Oil	Moisture %	Yield (lb/ac)	Maturity	%Oil	Moisture %	Yield (lb/ac)	Maturity	%Oil	Moisture %
8N270	CL / DM	2331	107	44	9.2	2729	114	41.9	11.8	2936	111	46.3	8.7
Cobalt II	CL / DM	2403	112	39.9	10.8	3310	112	41.4	14.4	2431	117	43.4	9.6
Talon	ExSun	1998	107	36.4	8.2	2930	115	39.1	11.8	3463	115	42.8	9.4
P63ME70	ExSun / DM	3108	112	40.4	8.4	3005	116	42.2	14.1	3020	115	47.2	8.7
P63ME80	ExSun / DM	3072	112	42.3	10.5	3032	117	43.8	10.7	3102	117	47	9
<b>Experimental lines being tested/proposed for registration in Canada</b>													
E84131	CL / DM	2576	107	42.6	8.6	3216	114	43.2	7.8	3019	109	46.8	8.4
Honeycomb NS	-	2171	92	34.8	9.6	2215	97	37.8	10.1	3245	104	45.3	8.1
Honeycomb HO	-	1984	107	36.1	8.6	2856	114	39.6	11.4	2785	114	42.7	9.4
Wishbone	CL / DM	1487	109	35.6		2692	117	38.1	10.2	2439	116	41	9.2
	<b>Site Average</b>	2347	107			2909	113			2905			
	<b>CV%</b>	11.9				7.3				13.1			
	<b>Sign Diff</b>	Yes				Yes				Yes			
	<b>LSD (0.05)</b>	485				368				658			
	<b>Planting Date</b>	11-May				12-May				1-Jun			
	<b>Harvest Date</b>	28-Sep				22-Sep				19-Oct			

\*Genetic traits include herbicide tolerance and Downy Mildew Resistance, where CL = Clearfield tolerance; ExSun = Express tolerance; DM = Downy Mildew Resistance.

DMR varieites can still show symptoms in fields due to changes in races and prolonged wet conditions

\*Site was desiccated at R9