



2013 Variety Performance Trials

The Manitoba Sunflower Variety Performance testing is organized and conducted by the National Sunflower Association of Canada (NSAC) in co-ordination with Manitoba Agriculture, Food and Rural Development (MAFRD). The varieties that appear in these trials are hybrids developed by sunflower breeding companies that are actively being pursued or marketed in Manitoba. These varieties may be in the experimental stage or registered under the Canadian Food Inspection Agency in Canada.

In 2013, the NSAC conducted the variety trials in four locations around the province: Elm Creek, Minto, Melita and Beausejour. Unfortunately, the Melita confectionary trial site was lost due to unfavourable weather and the onset of high disease pressure.

The NSAC appreciates the hard work and dedication from the contractors who plant, maintain and harvest the plots. A further thank-you to the MAFRD Oilseed specialist, Anastasia Kubinec, who compiled the data for the trials and Legumex Walker - Keystone Grain for providing seed sizing services.

Comments:

All sunflower varieties currently available are susceptible to sclerotinia rot. Weather conditions and presence of sclerotinia inoculum play a major role in disease development and severity.

- Average height and maturity derived from data collected in the MCVET Sunflower trials in 2013. Data from all sites accepted for yield.
- Reaction indicated is to Races 2, 3 and 4 under controlled indoor conditions.
- Reaction indicated is to Race 2.
- Disease information is based on 2011-2013 trials conducted at AAFC Morden. Missing data is due to companies not entering varieties into disease screening trials.

SUNFLOWERS - Non Oil Type											
Variety Descriptions									Disease Resistance to:		
Company	Variety	Herb Type	DMR	Yield (lbs/acre)	Days to Bloom	Days to Maturity ²	Height (inches) ²	% over 20/64 inch	Rust ³	Verticillium Wilt	Downy Mildew ⁴
Seeds 2000	6946 DMR	-	Y	3381	73	114	69	78	HS	MR	R
Seeds 2000	Jaguar DMR	CL	Y	3638	70	114	71	89	-	-	-
Seeds 2000	Panther DMR	-	Y	2967	71	117	66	87	HS	MS	S
Experimental lines are being tested/proposed for registration in Canada.											
NSAC	EX 711	-	N	3023	75	115	73	67	HS	MS	HS
NSAC	EX 730	-	N	2957	74	117	66	85	HS	MS	S
NSAC	EX 753	-	N	3407	73	116	69	85	HS	MS	HS
NSAC	EX 755	-	N	3181	75	116	74	68	HS	MS	S
NSAC	EX 5255	-	N	2636	74	116	75	77	HS	MS	HS
NSAC	EX 8211	-	N	3010	73	117	75	83	HS	MR	HS
NSAC	EX 8230	-	N	2255	73	116	67	84	HS	MS	HS
NSAC	EX 8253	-	N	2797	70	118	69	88	HS	MS	HS
NSAC	EX 8255	-	N	3181	74	118	76	68	HS	MR	HS
NSAC	EX 9011	-	N	2922	73	115	68	76	HS	MR	HS
NuSeed Global	NHW12706	-	Y	2860	78	127	83	51	HS	MR	MR
NuSeed Global	NHW12708	-	Y	2826	75	120	73	95	HS	MS	R
NuSeed Global	NHW12717	-	Y	2864	81	127	79	52	HS	MR	R
NuSeed Global	NHW12739	-	Y	2974	73	112	71	94	HS	MS	MR
Seeds 2000	NSK12N069	-	-	3247	75	117	75	67	-	-	-
CHS Sunflowers	12EXP01	-	N	3477	76	122	75	91	-	-	-
CHS Sunflowers	RH400 CL	CL	N	3433	74	118	70	82	MR	MS	S
NuSeed Global	X4417	-	N	3043	74	115	70	94	HS	MS	HS
Seeds 2000	X9180 EX DMR	ExSun	Y	3474	72	117	70	77	HS	MS	MR
Overall Average (lbs/acre)				3071	74	117	72	79			
Site Year				3	3	3	3	3			

SUNFLOWERS - Oil Type

Variety Descriptions											Disease Resistance to:		
Company	Variety	Herb Type	DMR	Oil Type	Yield (lbs/acre)	Harvest Moisture (%)	Days to Bloom	Days to Maturity ²	Height (inches) ²	% Oil	Rust ³	Verticillium Wilt	Downy Mildew ⁴
Syngenta	3495 NS/CL/DM	CL	Y	NS	3337	11.2	76	118	70	41.0	HS	MR	MR
Seeds 2000	Cobalt II	CL	Y	HO	2994	17.6	74	119	66	41.1	-	-	-
Seeds 2000	Falcon EX	ExSun	N	NS	3212	16.7	75	120	66	43.4	HS	MR	S
Pioneer Hi-Bred	P63ME70	ExSun	Y	NS	3417	10.8	73	116	73	43.5	HS	MR	R
Pioneer Hi-Bred	P63ME80	ExSun	Y	NS	3501	12.8	74	119	74	44.2	HS	MR	R
Experimental lines are being tested/proposed for registration in Canada.													
Syngenta	7111 HO/CL/DM	CL	Y	HO	3093	11.4	70	115	64	38.3	MR	MR	R
NuSeed Global	NLK12S069	ExSun	N	NS	3313	17.6	75	116	73	37.2	-	-	-
NuSeed Global	NLK12S070	ExSun	N	NS	3250	15.6	72	115	68	40.2	-	-	-
Overall Average (lbs/ac)					3265	14.2	73	117	69	41.1			
Site Years					4	1	4	4	4	4			

BEAUSEJOUR - Confection Sunflower Trial 2013

Seeding Date: May 22nd

Harvest Date: October 15th

Variety	Yield (lbs/acre)	Days to Bloom	Days to Maturity	Height (inches)	Seed Sizing		
					22/64	20/64	Medium
6946 DMR	4127	72	122	78	50	36	10
Jaguar DMR	3927	69	119	76	80	14	3
Panther DMR	3801	69	121	79	64	23	10
Experimental lines are being tested/proposed for registration in Canada.							
EX 711	3994	73	120	84	38	41	16
EX 730	4005	72	120	77	78	15	3
EX 753	4242	73	123	79	67	24	4
EX 755	4012	73	122	85	50	32	13
EX 5255	3035	74	122	89	73	17	7
EX 8211	3779	72	122	88	60	24	12
EX 8230	3109	73	118	81	82	11	4
EX 8253	3499	67	122	83	81	11	2
EX 8255	3863	74	122	88	52	28	15
EX 9011	3764	73	119	81	40	42	15
NHW12706	3011	79	128	92	18	37	39
NHW12708	3475	75	121	86	76	20	2
NHW12717	3137	81	128	91	31	37	25
NHW12739	3487	72	118	84	85	10	3
NSK12N069	3883	76	122	86	47	30	17
12EXP01	3865	79	128	82	88	8	1
RH400 CL	3811	75	124	82	55	28	4
X4417	3854	72	121	81	90	5	1
X9180 EX DMR	4086	72	121	79	52	31	10
Grand Mean	3717	73	122	83	62	24	10
CV%	11.5						
LSD (lbs/acre)	602						
Sign Diff	Yes						

ELM CREEK - Confection Sunflower Trial 2013

Seeding Date: May 22nd

Harvest Date: October 17th

Variety	Yield (lbs/acre)	Days to Bloom	Days to Maturity	Height (inches)	Seed Sizing		
					22/64	20/64	Medium
6946 DMR	3797	73	108	63	28	45	23
Jaguar DMR	4007	71	108	65	55	32	11
Panther DMR	2591	72	108	56	73	20	5
Experimental lines are being tested/proposed for registration in Canada.							
EX 711	3521	75	108	70	26	35	34
EX 730	3039	76	110	56	60	24	11
EX 753	3806	71	108	64	47	37	14
EX 755	3401	76	110	71	26	30	40
EX 5255	2892	74	108	67	43	24	22
EX 8211	3352	72	108	70	64	22	9
EX 8230	2144	72	108	64	62	21	12
EX 8253	2947	69	108	60	77	11	7
EX 8255	3367	74	113	70	29	31	33
EX 9011	3011	72	108	61	29	45	21
NHW12706	2735	79	122	79	9	30	57
NHW12708	2939	76	122	61	81	14	3
NHW12717	2718	82	122	74	6	23	68
NHW12739	3328	72	108	64	75	20	3
NSK12N069	3301	75	110	70	18	36	43
12EXP01	3425	73	113	68	73	15	7
RH400 CL	3496	73	111	60	25	50	22
X4417	2595	75	108	59	90	6	1
X9180 EX DMR	3656	72	111	62	33	39	24
Grand Mean	3185	74	111	65	47	28	21
CV%	9.3						
LSD (lbs/acre)	421.5						
Sign Diff	Yes						

BEAUSEJOUR - Oilseed Sunflower Trial 2013

Seeding Date: May 22nd

Harvest Date: October 15

Entry	Yield (lbs/acre)	Harvest Moisture (%)	Days to Bloom	Days to Maturity	Height (inches)	Oil Content
3495 NS/CL/DM	3991	heads	77	126	74	42.3
Cobalt II	3636	clipped	76	126	70	41.9
Falcon EX	3937	and	79	127	68	43.9
P63ME70	4385	artificially	76	123	78	43
P63ME80	4139	dried	76	125	81	44.4
Experimental lines are being tested/proposed for registration in Canada.						
7111 HO/CL/DM	3769	↓	72	122	70	39.5
NLK12S069	4211		75	124	79	35.9
NLK12S070	4227		74	124	73	40.7
GRAND MEAN	4070		76	125	74	41
CV%	5.8					
LSD (lbs/acre)	166					
Sign Diff	Yes					

MINTO - Confection Sunflower Trial 2013

Seeding Date: May 25th

Harvest Date: October 25th

Variety	Yield (lbs/acre)	Days to Bloom	Days to Maturity	Height (inches)	Seed Sizing		
					22/64	20/64	Medium
6946 DMR	2219	73	112	65	50	25	19
Jaguar DMR	2980	70	114	73	71	16	8
Panther DMR	2509	72	122	62	65	17	13
Experimental lines are being tested/proposed for registration in Canada.							
EX 711	1553	76	118	64	36	26	29
EX 730	1828	75	122	64	58	20	16
EX 753	2175	75	116	63	58	22	19
EX 755	2128	76	116	67	36	30	27
EX 5255	1980	75	117	70	56	18	16
EX 8211	1898	74	122	68	62	16	15
EX 8230	1513	75	122	57	61	16	15
EX 8253	1945	74	124	64	68	15	12
EX 8255	2312	75	118	69	43	21	22
EX 9011	1990	75	118	63	40	31	23
NHW12706	2833	76	130	77	23	37	30
NHW12708	2064	75	118	72	87	6	4
NHW12717	2737	80	130	73	23	37	33
NHW12739	2107	74	110	66	88	5	3
NSK12N069	2557	74	120	70	36	33	26
12EXP01	3143	75	125	74	81	8	6
RH400 CL	2993	75	120	68	56	33	8
X4417	2681	74	115	71	80	10	5
X9180 EX DMR	2681	73	118	68	48	28	17
Grand Mean	2332	74	119	68	56	21	17
CV%	16.1						
LSD (lbs/acre)	532						
Sign Diff	Yes						

ELM CREEK - Oilseed Sunflower Trial 2013

Seeding Date: May 15th

Harvest Date: October 17

Entry	Yield (lbs/acre)	Harvest Moisture (%)	Days to Bloom	Days to Maturity	Height (inches)	Oil Content
3495 NS/CL/DM	3626	heads	81	108	70	39.7
Cobalt II	2949	clipped	79	113	62	40.4
Falcon EX	3466	and	79	113	66	40.9
P63ME70	3524	artificially	76	110	76	43.1
P63ME80	3924	dried	76	117	71	42.9
Experimental lines are being tested/proposed for registration in Canada.						
7111 HO/CL/DM	3697	↓	73	108	60	37.4
NLK12S069	4084		76	108	71	36.2
NLK12S070	3542		74	108	64	37.2
GRAND MEAN	3552		77	111	68	40
CV%	9.8					
LSD (lbs/acre)	-					
Sign Diff	No					

MINTO - Oilseed Sunflower Trial 2013

Seeding Date: May 25th

Harvest Date: October 25th

Entry	Yield (lbs/acre)	Harvest Moisture (%)	Days to Bloom	Days to Maturity	Height (inches)	Oil Content
3495 NS/CL/DM	3094	clipped	81	122	72	40.3
Cobalt II	2966	and	74	121	66	40.8
Falcon EX	2868	artificially	77	123	68	43.4
P63ME70	3132	dried	75	115	74	43.2
P63ME80	3243		76	119	75	44.4
Experimental lines are being tested/proposed for registration in Canada.						
7111 HO/CL/DM	2689	↓	71	115	65	37.6
NLK12S069	2556		75	117	71	38.0
NLK12S070	2409		75	113	71	40.3
GRAND MEAN	2886		76	118	70	41
CV%	11.6					
LSD (lbs/acre)	489					
Sign Diff	Yes					

MELITA - Oilseed Sunflower Trial 2013

Seeding Date: May 22nd

Harvest Date: October 23rd

Entry	Yield (lbs/acre)	Harvest Moisture (%)	Days to Bloom	Days to Maturity	Height (inches)	Oil Content
3495 NS/CL/DM	2635	11.2	65	116	65	41.7
Cobalt II	2425	17.6	67	115	67	41.2
Falcon EX	2575	16.7	63	117	63	45.4
P63ME70	2627	10.8	65	116	65	44.6
P63ME80	2698	12.8	69	116	69	45.0
Experimental lines are being tested/proposed for registration in Canada.						
7111 HO/CL/DM	2218	11.4	62	116	62	38.7
NLK12S069	2398	17.6	72	116	72	38.5
NLK12S070	2822	15.6	65	116	65	42.5
GRAND MEAN	2544	14.2	66	116	66	42
CV%	7.7					
LSD (lbs/acre)	289					
Sign Diff	Yes					




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