



The 2009 Post-Registration Trial Data

The Manitoba Sunflower Post-Registration variety testing is organized and conducted by the National Sunflower Association of Canada (NSAC) in co-ordination with the Manitoba Agriculture, Food and Rural Initiatives. The Sunflower Post-Registration Trials serve as a tool to provide Sunflower Growers with regional third-party performance data of varieties that are registered or have interim registration status in Canada OR have been recommended for registration by the Manitoba Sunflower Committee. The varieties that appear in these trials are varieties that sunflower companies are actively pursuing or marketing in Manitoba.

In 2009, the NSAC conducted the Manitoba Sunflower Post-Registration Variety Trials in 6 locations around the province. The trials were located in Carman, Morden, Minto, Medora, Treherne and OakBluff. These trials and results are made possible with your continued support through the Sunflower check-off levy.

Growing conditions in 2009 were abnormal in terms of both heat accumulation and rainfall in most areas of Manitoba. Some areas of the province experienced early season frosts and excessive rainfall. In general, disease incidence was more prevalent in 2009 as compared to previous years, specifically with increases in sunflowers rust and sclerotinia (basal, mid-stalk and head rot). Total seeded sunflower acres in 2009 as reported by MASC were 118,032 acres of confections and 31,527 acres of oils.

The NSAC appreciates the hard work of the MAFRI Oilseed Specialist, Anastasia Kubinec, who compiled the data for the trials. As well as a big thank-you to Keystone Grain Ltd. for providing seed sizing services and to Agriculture and Agri-Food Canada – Morden for providing the oil data. In addition, we appreciate the hard work of all contractors who plant, monitor and harvest the plots throughout the growing season.

SUNFLOWERS - Oil Type									
Comments:									
<ul style="list-style-type: none"> Disease resistance, maturity, height, and % oil ratings are taken from results gathered during the Manitoba Sunflower Committee Co-op Performance Testing. These varieties were tested and data donated by the National Sunflower Association of Canada Inc. 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. 									
Variety Descriptions									
				Registration Data (Manitoba Sunflower Committee)					
		Yield (lb/acre)					Resistance to:		
Company	Variety	2009	2008	%Oil	Days to Maturity	Height (inches)	Rust1	Verticillium Wilt	Downey2 Mildew
High Oleic Sunflowers									
Dow AgroSciences	8H288DM	-	2459	50.2	122	63	HS	MR	R
Dow AgroSciences	8H350DM	-	2276	49.0	124	70	HS	MR	R
Interstate Seed	IS 7120 HO/DM	2471	-	46.6	122	67	HS	MR	R
NuSun Sunflowers (Mid Oleic type)									
CROPLAN Genetics	3080 DMR	2369	2390	48.7	126	67	HS	MR	R
Pioneer Hi-Bred	63M40	-	2623	44.1	123	63	S	MR	MS
Pioneer Hi-Bred	63M80	2696	2564	54.3	122	71	S	R	R
CROPLAN Genetics	803 DMR	2293	-	48.2	118	65	MS	MR	R
Dow AgroSciences	8N358CL *	-	2428	47.5	128	66	HS	MR	S
Dow AgroSciences	8N358CL DMR *	2389	-	48.2	125	76	HS	MR	R
Seeds 2000	Defender Plus DMR	2423	2640	43.7	123	66	HS	MR	R
Interstate Seed	IS 29-30 NS/DM	2341	-	47.0	117	71	HS	MR	R
Interstate Seed	IS 3433 NS/DM	-	2432	48.0	122	64	HS	MR	MR
Interstate Seed	IS 3480CL *	2486	-	45.5	122	71	HS	MR	R
Interstate Seed	IS 6131 NS/DM	-	2546	47.5	120	61	MS	MR	R
Seeds 2000	Viper *	1789	2221	44.1	123	63	HS	MR	S
Overall Average (lbs/acre)		2362	2457						
Site Years		6	5						

* indicates Clearfield tolerant sunflower.
 1 Reaction indicated is to Races 2, 3, and 4 under controlled indoor conditions.
 2 Reaction indicated is to Race 2.

SUNFLOWERS - Non-Oil Type

Comments:

- Disease resistance, maturity, height, and seed sizing ratings are taken from results gathered during the Manitoba Sunflower Committee Co-op Performance Testing.
- These varieties were tested and data donated by the National Sunflower Association of Canada Inc.
- 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.

Variety Descriptions

		Registration Data (Manitoba Sunflower Committee)							
		Yield		% over 20/64 inch	Days to Maturity	Height (inches)	Disease Resistance to:		
		lbs/acre	2009				2008	Rust1	Verticillium Wilt
Company	Variety	2009	2008						
CHS Sunflower	05EXP01	-	2494	90	122	71	MS	MS	HS
Seeds 2000	6946	2308	2823	57	121	67	S	MR	HS
Dow Agro Sciences	8C451	2171	-	67	125	74	S	MS	HS
Dahlgren	Dahlgren 9530	-	2592	63	123	71	MS	MS	HS
Dahlgren	Dahlgren 9532	-	2474	61	122	66	HS	MR	HS
Interstate Seed	IS 8048	-	2291	57	121	70	S	MS	HS
Interstate Seed	IS 8135	-	2581	68	116	72	MS	MS	HS
Seeds 2000	Jaguar *	2088	2509	74	119	67	MS	MR	HS
Seeds 2000	Panther DMR	2425	-	56	122	68	HS	MS	R
CHS Sunflower	RH 3126 RT	2008	-	60	127	77	R	MS	HS
CHS Sunflower	RH 1121	2088	2513	79	126	77	MR	MS	HS
Seeds 2000	Panther	-	2653	58	122	67	S	MS	HS
Overall Average (lbs/acre)		2181	2548						
Site Year		6	5						

* indicates Clearfield tolerant sunflower.

1 Reaction indicated is to Races 2, 3, and 4 under controlled indoor conditions.

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2009 Confection Sunflowers Height (cm)					
Name	2009 Average Height (cm)	Melita	Minto	Morden	Rathwell
8N358CLDM	157	153	148	192	136
Defender Plus	165	153	151	212	145
IS 2930 NS/DM	161	150	142	209	142
IS 3480CL	161	169	135	203	135
IS 7120 HO/DM	176	166	153	234	153
Viper	175	170	158	223	150
Grand Mean	166	160	148	212	143

2009 Confection Sunflowers Maturity (Days)							
Name	2009 Average Maturity (days)	Carman	Melita	Minto	Morden	Oak Bluff	Rathwell
6946	120	118	116	126	121	121	118
8C451	123	123	123	126	123	124	119
Jaguar	119	117	121	124	116	122	116
Panther DMR	121	119	117	128	118	123	119
RH1121	124	122	127	128	122	123	122
RH3126RT*	127	123	125	131	139	122	121
Grand Mean	122	120	122	127	123	123	119

2009 Oilseed Sunflowers Height (cm)					
Name	2009 Average Height (cm)	Melita	Minto	Morden	Rathwell
3080 DMR NS	150	139	142	186	133
63M80	167	163	153	183	167
803 DMR NS	143	160	141	173	100
8N358CLDM	170	172	146	197	167
Defender Plus	147	137	138	178	133
IS 2930 NS/DM	157	175	138	182	133
IS 3480CL	159	168	141	194	133
IS 7120 HO/DM	141	140	142	181	100
Viper	141	131	136	197	100
Grand Mean	166	154	142	186	130

2009 Oilseed Sunflowers Maturity (Days)							
Name	2009 Average Maturity (days)	Carman	Melita	Minto	Morden	Oak Bluff	Rathwell
3080 DMR NS	123	121	122	128	124	124	120
63M80	124	123	124	129	123	127	119
803 DMR NS	119	119	118	124	118	119	116
8N358CLDM	125	122	125	130	126	126	121
Defender Plus	123	122	121	129	122	125	118
IS 2930 NS/DM	120	120	120	124	118	121	118
IS 3480CL	125	121	124	130	125	126	123
IS 7120 HO/DM	123	122	120	126	122	126	120
Viper	124	121	131	130	118	124	121
Grand Mean	122	121	123	128	122	124	119



NSAC Mission Statement

To ensure the profitability and long-term growth of the sunflower crop through industry-wide leadership.



2009 Confection Sunflower Seed Sizing

Name	Overall			Carman			Melita			Minto			Morden		
	18/64	20/64	22/64	18/64	20/64	22/64	18/64	20/64	22/64	18/64	20/64	22/64	18/64	20/64	22/64
6946	30	30	22	30	30	22	12	26	58	43	19	8	29	29	5
8C451	18	23	49	47	33	5	4	13	79	14	25	43	25	40	28
Jaguar	16	27	48	30	39	23	1	4	91	18	34	27	30	39	23
Panther DMR	22	26	38	13	28	36	3	8	83	15	23	31	60	16	11
RH1121	11	17	60	5	13.5	65	2	4	90	17	30	27	22	22	47
RH3126RT*	23	29	35	20	42	31	3	21	71	13	29	46	48	13	7
Grand Mean	20	25	42	24	31	30	4	13	79	20	27	30	36	27	20

2009 Oilseed Sunflowers Yield Performance

Name	2009 Average Yield	Carman	Melita	Minto	Morden	Oak Bluff	Rathwell
3080 DMR NS	2369	1683	2446	3067	2223	862	3933
63M80	2696	2349	3089	2972	2395	1131	4241
803 DMR NS	2293	1776	3231	2904	1591	897	3356
8N358CLDM	2389	1713	2836	2894	2153	1347	3389
Defender Plus	2423	1678	2785	2912	2546	1092	3523
IS 2930 NS/DM	2341	2110	3260	2493	1832	969	3379
IS 3480CL	2486	1808	2827	2705	2366	1501	3708
IS 7120 HO/DM	2471	1817	3188	2804	1990	1121	3908
Viper	1789	1658	1849	1658	1199	1298	3257
Grand Mean	2362	1844	2835	2712	2033	1135	3633
CV%		9.2	10.3	10.8	13.3	14.7	12.5
LSD (lbs/acre)		292	506	505	471	287	-
Sign Diff		Yes	Yes	Yes	Yes	Yes	No

2009 Confection Sunflowers Yield Performance

Name	2009 Average Yield	Carman	Melita	Minto	Morden	Oak Bluff	Rathwell
6946	2308	1838	2638	2761	2376	1341	2894
8C451	2171	1522	2930	2378	1808	1506	2885
Jaguar	2088	1749	2455	2107	1850	2236	2290
Panther DMR	2425	1665	3705	2047	1977	1504	3820
RH1121	2008	1709	2797	1867	1751	1227	2697
RH3126RT	2088	1414*	2719	2320	2330	781	2964
Grand Mean	2181	1650	2874	2246	2015	1432	2925
CV%		10.8	10.0	9.4	8.0	9.0	9.4
LSD (lbs/acre)		-	504	367	285	234	487
Sign Diff		-	Yes	Yes	Yes	Yes	Yes



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	Oak Bluff			Rathwell		
	18/64	20/64	22/64	18/64	20/64	22/64
	35	36	11	31	38	26
	5	9	75	10	17	66
	8	23	61	7	21	65
	32	48	11	11	30	53
	12	14	60	9	17	70
	29	30	22	25	36	32
	20	27	40	16	27	52

2009 Oilseed Sunflowers Oil Content (%)							
Name	2009 Average Oil (%)	Carman	Melita	Minto	Morden	Oak Bluff	Rathwell
3080 DMR NS	48.0	49.0	50.1	48.0	50.2	41.8	49.1
63M80	49.5	53.1	49.8	47.8	49.4	46.0	51.1
803 DMR NS	47.3	49.0	49.2	48.1	48.5	42.5	46.8
8N358CLDM	46.7	47.8	47.5	47.3	46.6	43.5	47.3
Defender Plus	45.1	48.2	44.4	44.9	44.8	43.9	44.2
IS 2930 NS/DM	46.5	49.6	47.9	46.6	46.6	42.7	45.9
IS 3480CL	45.3	48.5	45.5	44.1	43.8	43.2	46.7
IS 7120 HO/DM	46.5	48.4	44.1	48.2	45.3	45.5	47.3
Viper	43.4	43.8	45.9	42.4	38.1	43.3	46.6
Grand Mean	46.5	48.6	47.2	46.4	45.9	43.6	47.2





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