2012 Post-Registration Trials

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

In 2012, the NSAC conducted the variety trials in four locations around the province. Unfortunately, one trial site was lost due to high disease pressure and heavy blackbird predation. The remaining three locations were Minto, Morden and Beausejour, for which the data is below.

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

The Beausejour and Minto trial sites also served as host to two informative grower field days this fall. Thank you to those who attended and we hope you found them valuable.

SUNFLOWERS - Non-Oil Type

Variety Descriptions											Disease Resistance to:		
Company	Variety	Herb Type	DMR	Meat to Hull Ratio1	Yield (lbs/acre)	Harvest Moisture (%)	Days to Bloom	Days to Maturity	Height (inches)2	% over 20/64 inch	Rust3	Verticillium Wilt	Downy Mildew4
Seeds 2000	6946	-	N	51	3573	11.4	71	126	78	62	S	MR	HS
Seeds 2000	6946 DMR	-	Y	51	3740	12.0	74	125	72	56	HS	MR	R
Seeds 2000	6950	-	N	50	3491	11.6	76	128	75	55	MR	MR	HS
Seeds 2000	Jaguar DMR	CL	Y	43	3541	11.0	73	127	77	79	-	-	-
Seeds 2000	Jaguar	CL	N	43	3506	10.9	76	129	78	81	MS	MR	HS
Seeds 2000	Sundance DMR	-	Y	44	3477	12.0	81	129	86	53	HS	MR	MR
Experimental lines are being tested/proposed for registration in Canada													
Seeds 2000	X9180 EX DMR	ExSun	Y	51	3479	12.2	76	129	78	73	HS	MS	MR
CHS Sunflower	RH400 CL	CL	N	45	3506	11.9	77	131	79	70	MR	MS	S
Overall Average (lbs/acre)				**47**	**3539**	**11.6**	**75**	**128**	**78**	**66**			
Site Year				**1**	**3**	**2**	**2**	**3**	**1**	**1**			

SUNFLOWERS - Oil Type

Variety Descriptions											Disease Resistance to:		
Company	Variety	Oil Type	Herb Type	DMR	Yield (lbs/acre)	Harvest Moisture (%)	Days to Bloom	Days to Maturity	Height (inches)2	% Oil	Rust3	Verticillium Wilt	Downy Mildew4
Pioneer Hi-Bred	63N82	NS	ExSun	Y	3082	12.9	78	133	76	43.9	S	MR	S
Seeds 2000	Defender Plus	NS	-	Y	3101	10.9	75	125	66	40.7	HS	MR	R
SYNGENTA Seed	IS 3433 NS/DM	NS	-	Y	3487	11.0	78	129	70	44.5	HS	MR	MR
Syngenta	7120 HO/DM	HO	-	N	3016	11.1	74	131	71	42.8	S	MR	MR
Syngenta	3495 NS/CL/ DM	NS	CL	Y	3598	12.0	83	128	77	42.3	HS	MR	MR
Seeds 2000	X4219	NS	ExSun	N	3558	13.5	81	128	69	42.7	HS	MR	S
Experimental lines are being tested/proposed for registration in Canada													
Pioneer Hi-Bred	P63ME70	NS	ExSun	Y	3483	10.9	77	129	76	43.6	HS	MR	R
Pioneer Hi-Bred	P63ME80	NS	ExSun	Y	3280	12.7	78	133	78	43.4	HS	MR	R
Seeds 2000	X6822	HO	CL	Y	3327	11.6	77	131	75	42.2	-	-	-
Syngenta	SYN NX24121	HO	CL	Y	2955	12.2	72	129	71	39.8	MR	MR	R
Overall Average (lbs/ac)					**3289**	**11.9**	**77**	**130**	**73**	**42.6**			
Site Years					**3**	**2**	**2**	**3**	**1**	**1**			

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.

1 Meat to hull ratio measurement taken from samples harvested at Morden location trials. One year, one location only data.

2 Average height and maturity derived from data collected in the MCVET Sunflower trials in 2008-2012. Data from all sites accepted for yield.

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

4 Reaction indicated is to Race 2.

MINTO: 2012 Confection Sunflowers

Seeding Date: May 14th			Harvest Date: October 12th					
Variety	Yield (lbs/acre)	Harvest Moisture (%)	Days to Bloom	Days to Maturity	Height (inches)	Seed Sizing		
						22/64	20/64	Medium
6946	3571	11.1	74	122	-	40	30	18
6946 DMR	3813	10.4	76	122	-	48	25	13
6950	3583	10.9	76	127	-	41	27	20
Jaguar DMR	3723	11.7	75	126	-	70	16	5
Jaguar	3770	11.3	76	129	-	74	11	6
Sundance DMR	3764	11.5	80	128	-	20	35	36
Experimental lines are being tested/proposed for registration in Canada								
X9180 EX DMR	3706	13.0	75	129	-	67	18	7
RH400 CL	3483	11.4	76	129	-	45	32	11
Grand Mean	**3528**	**11.4**	**76**	**127**	**-**	**51**	**24**	**15**
CV%	**6.2**							
LSD (lbs/acre)	**316**							
Sign Diff	**Yes**							

MORDEN: 2012 Confection Sunflowers

Seeding Date: May 11th			Harvest Date: September 14th					
Entry	Yield (lbs/acre)	Harvest Moisture (%)	Days to Bloom	Days to Maturity	Height (inches)	Seed Sizing		
						22/64	20/64	Medium
6946	4332	11.6	69	132	78	9	30	56
6946 DMR	4352	13.5	73	132	72	7	22	62
6950	4050	12.3	75	136	75	8	23	58
Jaguar DMR	3585	10.4	70	135	77	24	39	31
Jaguar	3829	10.5	76	139	78	33	40	21
Sundance DMR	3391	12.4	81	138	86	5	18	65
Experimental lines are being tested/proposed for registration in Canada								
X9180 EX DMR	3781	11.4	76	132	78	25	35	34
RH400 CL	3933	12.4	77	140	79	19	32	39
Grand Mean	**3796**	**11.8**	**75**	**135**	**78**	**16**	**30**	**46**
CV%	**10.6**							
LSD (lbs/acre)	**691**							
Sign Diff	**Yes**							

BEAUSEJOUR: 2012 Confection Sunflowers

Seeding Date: May 15th			Harvest Date: September 28th					
Entry	Yield (lbs/acre)	Harvest Moisture (%)	Days to Bloom	Days to Maturity	Height (inches)	Seed Sizing		
						22/64	20/64	Medium
6946	2817	-	-	123	-	41	35	6
6946 DMR	3054	-	-	122	-	22	44	25
6950	2842	-	-	122	-	25	40	26
Jaguar DMR	3313	-	-	120	-	71	18	5
Jaguar	2918	-	-	120	-	73	11	8
Sundance DMR	3276	-	-	122	-	56	25	10
Experimental lines are being tested/proposed for registration in Canada								
X9180 EX DMR	2951	-	-	125	-	51	24	13
RH400 CL	3102	-	-	124	-	52	31	
Grand Mean	**2895**			**122**		**49**	**29**	**13**
CV%	**9.4**							
LSD (lbs/acre)	**394**							
Sign Diff	**Yes**							

MINTO: 2012 Oil Sunflowers

Seeding Date: May 14th			Harvest Date: October 12th			
Entry	**Yield (lbs/acre)**	**Harvest Moisture (%)**	**Days to Bloom**	**Days to Maturity**	**Height (inches)**	**Oil Content**
63N82	3502	11.3	78	131	-	44.5
Defender Plus	3320	10.0	76	124	-	39.7
IS 3433 NS/DM	3964	9.7	78	124	-	44.6
7120 HO/DM	3492	10.7	75	130	-	40.7
3495 NS/CL/DM	3856	10.6	81	127	-	40.9
X4219	4076	10.6	79	124	-	41.1
Experimental lines are being tested/proposed for registration in Canada						
P63ME70	4163	10.3	77	123	-	42.3
P63ME80	3620	11.0	77	130	-	43.0
X6822	3508	10.4	77	128	-	41.7
SYN NX 24121	3095	11.3	73	129	-	38.4
Grand Mean	**3660**	**10.6**	**77**	**127.0**		**41.7**
CV%	**9.0**					
LSD (lbs/acre)	**479**					
Sign Diff	**Yes**					

MORDEN: 2012 Oil Sunflowers

Seeding Date: May 11th			Harvest Date: September 14th			
Entry	**Yield (lbs/acre)**	**Harvest Moisture (%)**	**Days to Bloom**	**Days to Maturity**	**Height (inches)**	**Oil Content**
63N82	3420	14.4	77	142	76	44.5
Defender Plus	3674	11.7	73	132	66	43.0
IS 3433 NS/DM	3814	12.2	78	139	70	46.7
7120 HO/DM	3246	11.5	72	139	71	43.8
3495 NS/CL/DM	4171	13.4	84	135	77	44.3
X4219	3745	16.3	83	137	69	44.7
Experimental lines are being tested/proposed for registration in Canada						
P63ME70	3783	11.5	76	140	76	45.1
P63ME80	3581	14.4	78	143	78	45.2
X6822	3745	12.8	77	140	75	43.5
SYN NX 24121	3298	13.0	70	133	71	40.9
Grand Mean	**3648**	**13.1**	**77**	**138**	**73**	**44.2**
CV%	**6.8**					
LSD (lbs/acre)	**423**					
Sign Diff	**Yes**					

Manitoba Special Crops Production Day

MARCH 5, 2013
8:30 am – 4:30 pm
Victoria Inn, Brandon MB
3550 Victoria Avenue

This event will bring together producers and industry representatives in one venue to discuss marketing, agronomy and pest management issues relating to corn, sunflowers, peas and soybeans in Manitoba.

- Concurrent sessions featuring agronomic, research and marketing updates.
- Wine and Cheese event from 3:00 pm – 4:30 pm.

Presented by:

CNSA | Manitoba Corn Growers Association Inc. | Manitoba Pulse Growers Association

BEAUSEJOUR: 2012 Oil Sunflowers						
Seeding Date: May 15th			**Harvest Date: September 28th**			
Entry	**Yield (lbs/acre)**	**Harvest Moisture (%)**	**Days to Bloom**	**Days to Maturity**	**Height (inches)**	**Oil Content**
63N82	2322	-	-	126	-	42.7
Defender Plus	2309	-	-	120	-	39.4
IS 3433 NS/DM	2683	-	-	123	-	42.1
7120 HO/DM	2310	-	-	124	-	43.8
3495 NS/CL/DM	2768	-	-	122	-	41.6
X4219	2852	-	-	122	-	42.4
Experimental lines are being tested/proposed for registration in Canada						
P63ME70	2502	-	-	123	-	43.3
P63ME80	2638	-	-	127	-	42.0
X6822	2728	-	-	125	-	41.4
SYN NX 24121	2471	-	-	125	-	40.2
Grand Mean	**2558**			**124**		**41.9**
CV%	**11.4**					
LSD (lbs/acre)	**427**					
Sign Diff	**No**					

Notice of Annual General Meeting

Notice issued December 1, 2012

Notice is hereby given that a meeting of the members of the National Sunflower Association of Canada (NSAC) will be held Wednesday, February 6, 2013 at the Victoria Inn Hotel and Convention Centre, 1808 Wellington Avenue, Winnipeg, MB during the Manitoba Special Crops Symposium.

The agenda for the meeting is as follows:

1. To approve the minutes of the 2012 members meeting.
2. To receive the financial statements of NSAC for the current fiscal year.
3. To appoint the auditor for NSAC.
4. To receive the board and managers report.
5. To approve the amendments to the NSAC Constitution and By-laws.
6. To elect one director for the NSAC Board.

Nominees must be a producer of sunflowers and are in good standing with NSAC (must not have requested a levy refund but have remitted check-off to the Association in the past two years). Nominations to serve on the Board of Directors can be made by submitting the candidate's name to the NSAC office prior to the commencement of the meeting, or by nominating a candidate during the call for nominations at the Annual General Meeting.