Comments:

Variety Description table summarizes the 2017 Canola Performance Trials (CPT) – www.canolaperformancetrials.ca

All varieties in the table below have a resistant rating for Blackleg. Lesions and yield loss can still occur, based on the level of incoulum, blackleg pathotype in the field, in combination with evironmental conditions conducive for disease development.

Clubroot is a long-lived disease in the soil that can impact canola performance.Using clubroot resistant varietes in Rural Municipalities where clubroot has been found is highly recommended as a risk mitigation tool. To know for sure if your own fields have clubroot, soil testing is the only way to find out, prior to finding galls in the fields. See page 55 for map indicating clubroot distribution in Manitoba.

Variety Description

		LONG Season Zone (3 trials)				MID Season Zone (5 trials)				
Distributor	Name	Yield (%5440)	Maturity (Days)	Lodging (1-5)	Height (inches)	Yield (%5440)	Maturity (Days)	Lodging (1-5)	Height (inches)	Disease[1] Tolerance
	Clearfield									
Pioneer	46H75	94	95	1.2	51	96	100	1.6	42	BL
Brett Young	5545 CL	89	93	1.3	50	96	97	1.7	42	BL
CANTERRA SEEDS	CS2200 CL	90	92	1.1	51	89	100	1.6	42	BL
Crop Production Services/Proven	PV 200 CL	92	93	1.2	50	93	98	1.7	43	BL
	LSD (%)	***14***				***12***				
	Liberty Link									
Bayer CropScience	5440	100	92	1.0	50	100	96	1.3	44	BL
Bayer CropScience	L241C	97	91	1.0	48	97	96	1.3	42	BL/CR
Bayer CropScience	L252	106	93	1.1	48	105	96	1.4	43	BL
	LSD (%)	***11***				***13***				
	Roundup Ready									
Brett Young	4187 RR	95	92	1.1	53	97	99	1.4	43	BL/CR
Pioneer	45H33	97	91	1.4	55	100	95	1.7	42	BL/CR
Pioneer	45M35	100	92	1.5	48	103	97	1.5	41	BL
Brett Young	6074 RR	95	92	1.0	51	99	100	1.7	40	BL/S
Brett Young	6076 CR	94	92	1.0	53	95	98	1.5	44	BL/CR/S
Brett Young	6080 RR	89	93	1.1	49	91	97	1.5	38	BL
Brett Young	6090RR	95	92	1.3	54	101	99	1.5	45	BL/CR
DEKALB	74-44 BL	89	91	1.0	46	87	95	1.7	39	BL
CANTERRA SEEDS	CS2000	92	92	1.0	51	94	98	1.7	41	BL/CR
CANTERRA SEEDS	CS2100	90	92	1.8	47	97	97	1.8	40	BL
CANTERRA SEEDS	CS2300	100	93	1.3	54	103	98	1.5	42	BL
Proven Seed/CPS	PV 540 G	99	93	1.1	49	94	96	1.6	40	BL
Proven Seed/CPS	PV 581 GC	93	93	1.3	53	97	99	1.5	43	BL
Cargill - VICTORY Hybrid Canola	V12-1 *	96	92	1.5	49	95	96	1.6	41	BL
Varieties supported for registration by WCC/RRC										
DL Seeds	DL1634 RR	92	94	1.0	55	96	100	1.5	43	BL
	LSD (%)	***11***				***10***				
CHECK MEAN 5440 (bu/ac)		66				67				

* Indicates varieties with Specialty oil profiles and premiums associated with pricing. Visit www.canolaperformancetrials.ca for more details

1 Indicated genetic disease resistance with an "R" or resistant rating to BL=Blackleg, CR=Clubroot and improved tolerance to sclerotinia "S", as based on variety descriptions submitted to CFIA

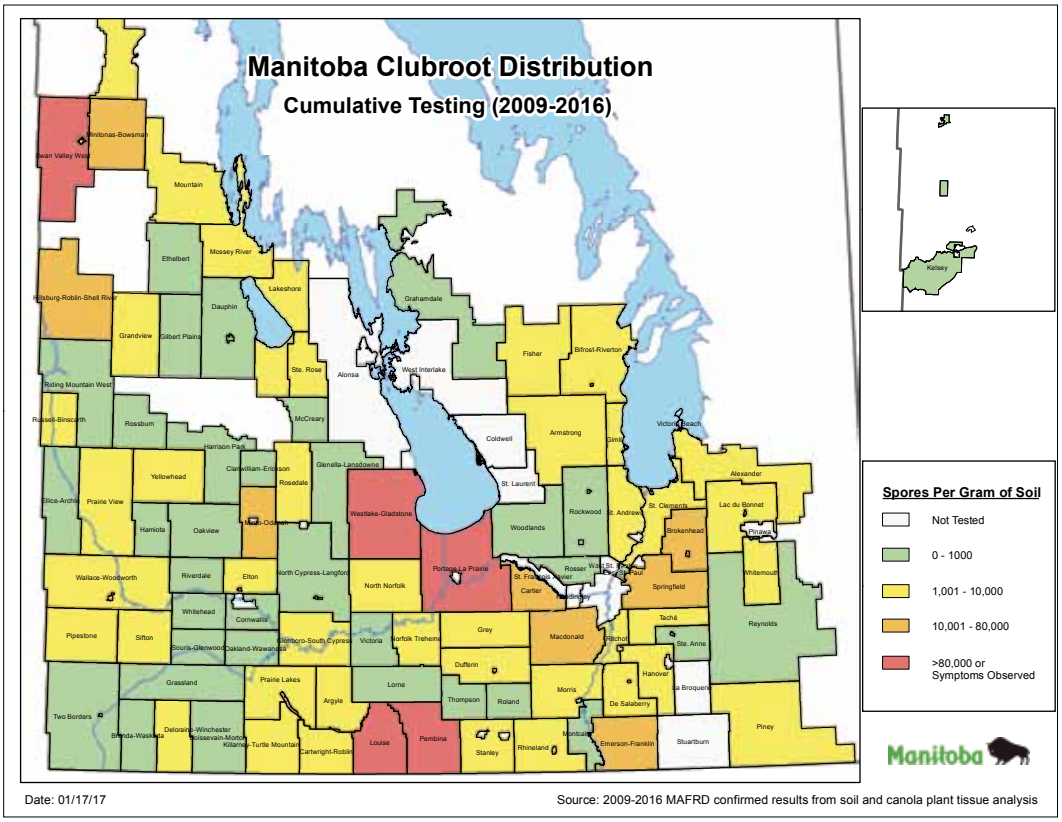
Data presented is based on harvest data received as of October 27, 2017

CANOLA *(continued)*

Yield Comparisons

		2017 Yield (%5440)							
		LONG SEASON ZONE			MID SEASON ZONE				
Distributor	**Name**	**Elm Creek, MB**	**Melita, MB**	**Lethbridge, AB**	**Hague, SK**	**Melfort, SK**	**Forestburg, SK**	**Josephburg, SK**	**Vegreville, AB**
	Clearfield								
Pioneer HiBred	46H75	82	94	106	97	99	80	97	108
BrettYoung	5545 CL	71	102	95	94	108	73	100	105
Canterra	CS2200 CL	63	108	99	87	98	83	94	85
CPS	PV 200 CL	84	95	99	98	105	72	98	90
	LSD (%)	***15***	***19***	***9***	***12***	***8***	***15***	***11***	***14***
	Liberty Link								
Bayer CropScience	5440	100	100	100	100	100	100	100	100
Bayer CropScience	L241C	91	101	100	94	106	89	100	97
Bayer CropScience	L252	101	102	114	110	103	100	103	109
	LSD (%)	***15***	***9***	***8***	***9***	***10***	***13***	***20***	***15***
	Roundup Ready								
BrettYoung	4187 RR	84	102	101	105	93	88	96	105
Pioneer	45H33	93	101	98	107	98	91	103	100
Pioneer	45M35	96	104	100	104	100	98	112	102
BrettYoung	6074 RR	86	104	95	97	97	87	105	108
BrettYoung	6076 RR	88	101	92	99	90	89	100	95
BrettYoung	6080 RR	84	97	87	96	90	86	98	86
DL Seeds	6090 RR	84	96	106	103	93	93	105	110
Dekalb	74-44 BL	74	102	92	86	98	82	89	81
Canterra	CS2000	87	108	80	100	95	88	101	88
Canterra	CS2100	78	103	89	103	94	89	104	93
DL Seeds	CS2300	93	104	102	103	100	94	107	108
CPS	PV 540 G	86	105	108	92	99	91	96	89
CPS	PV 581 GC	87	102	89	98	94	99	102	91
Cargill	V12-1*	93	101	95	99	89	95	97	97
Varieties supported for registration by WCC/RRC									
DL Seeds	DL1634 RR	82	95	100	99	97	88	92	102
	LSD (%)	***11***	***9***	***14***	***10***	***8***	***10***	***10***	***13***
CHECK MEAN 5440 (bu/ac)		74	57	66	59	63	52	79	79
GRAND MEAN (bu/ac)		63	58	65	58	62	46	79	77
CV%		9.3	8.5	9.2	6.9	7.1	10.5	8.1	10.3

* Indicates varieties with Specialty oil profiles and premiums associated with pricing. Visit www.canolaperformancetrials.ca for more details
Data presented is based on harvest data received as of October 27, 2017



FLAX

New for 2018

Variety	Code	Breeder	Distributor	Seed Availability
AAC Marvelous	FP2401	AAFC - Morden	FP Genetics	2020
Topaz	FP2457	CPS Canada Inc.	Alliance Seed Corp.	2020

Comments:

All variety descriptions other than yield are based on data from the Flax Cooperative Trials in the Prairie Provinces

AC Emerson demonstrates the greatest tolerance to flax chlorosis.

All varieties are immune to rust.

All varieties are susceptible to pasmo.

Variety Descriptions

Variety	Site Years Tested	Yield bu/acre	Maturity +/- 102 days	Height +/- 27 inches	Seed Color	Seed Size TKW	Oil Quality[1]: Oil Content	Iodine Number	ALA Content	Resistance Level: Lodging	Fusarium Wilt
AAC Bravo	24	33	1	0	brown	6.4	44.6	194.0	60.2	G	MR
AAC Marvelous	5	35	2	0	brown	5.8	47.1	192.1	55.8	G	MR
AAC Prairie Sunshine	7	34	3	1	brown	5.3	47.7	192.5	56.5	VG	MR
AC Emerson	30	32	-2	-1	brown	6.4	43.8	196.1	59.3	G	R
CDC Bethune	123	34	0	0	brown	5.8	45.6	188.6	54.7	G	MR
CDC Buryu	12	33	1	1	brown	5.9	45.3	189.9	54.6	G	MR
CDC Glas	24	35	1	1	brown	5.2	45.8	192.0	56.6	G	MR
CDC Neela	24	34	1	1	brown	5.7	45.5	194.4	59.1	G	MR
CDC Plava	15	34	-2	-1	brown	5.7	46.5	195.5	57.2	G	MR
CDC Sanctuary	27	35	3	1	brown	5.8	45.6	190.7	57.2	G	MR
CDC Sorrel	56	34	1	1	brown	6.4	45.1	192.7	57.8	F	MR
Hanley	70	32	-2	-2	brown	5.7	44.7	197.7	58.6	VG	R
Lightning	40	33	1	-2	brown	6.0	47.6	192.5	56.1	G	MR
Prairie Blue	68	34	1	-1	brown	5.2	46.3	192.2	57.3	VG	MR
Prairie Grande	40	33	-2	-4	brown	5.8	45.6	192.9	57.5	G	MR
Prairie Sapphire	35	35	2	-1	brown	5.8	48.1	193.1	57.2	G	MR
Prairie Thunder	49	33	0	-3	brown	5.9	45.3	194.7	57.9	G	R
Taurus	39	33	0	-1	brown	5.6	45.6	187.0	53.9	VG	MR
Topaz	12	33	0	0	brown	5.8	45.9	188.2	54.4	G	MR
Vimy	4	33	1	0	brown	6.1	45.0	191.9	57.6	F	MR
VT50	15	33	4	-2	yellow	5.1	47.1	209.4	67.6	VG	MR
WestLin 60	13	32	-1	-2	brown	5.7	46.1	197.9	59.9	G	MR
WestLin 70	12	33	2	2	brown	6.4	45.8	194.5	61.9	G	MR
WestLin 71	15	34	2	-2	brown	5.6	47.5	198.1	61.2	G	MR
WestLin 72	15	34	3	-1	brown	5.4	47.0	192.8	57.0	VG	MR
Varieties supported for registration by the PRCO											
FP2454	12	33	-2	-3	brown	5.4	47.6	197.5	60.3	VG	MR
FP2513	5	35	4	0	brown	6.8	45.2	195.1	59.2	G	MR
GRAND MEAN (bu/ac)		34									
LSD (0.05)		1.6									

1 Oil quality of flax is based on the amount of linolenic acid measured in the seed or as measured by iodine value which is calculated from the fatty acid composition of the seed. A higher iodine value and/or higher ALA content indicates a higher overall oil quality in the seed.

2 E = Excellent; VG = Very Good; G = Good; FG = Fair to Good; F = Fair; PF = Poor to Fair; P = Poor.

Yield Comparisons

VARIETY	2017 Yield (bu/acre) Arborg	Boissevain	Morden	Roblin	Stonewall
AAC Bravo	37	55	38	41	33
AAC Marvelous	36	57	35	40	39
CDC Bethune	37	52	30	38	34
CDC Buryu	26	50	33	39	37
CDC Glas	34	57	35	38	32
CDC Neela	40	56	39	38	33
CDC Plava	33	53	32	30	35
CDC Sorrel	30	56	37	33	38
Topaz	32	53	37	38	37
VT50	26	55	25	33	34
WestLin 60	36	55	36	33	37
WestLin 72	30	44	31	29	34
Varieties that have been supported for registration by the PRCO					
FP2454	30	50	34	27	37
FP2513	43	59	41	38	34
SITE GRAND MEAN (bu/ac)	34	54	34	35	35
CV%	11.7	4.3	11.6	11.3	8.9
LSD (bu/ac)	7	4	—	7	—
Sign Diff	Yes	Yes	No	Yes	No
Seeding Date	25-May	09-May	15-May	19-May	16-May
Harvest Date	16-Oct	05-Sep	29-Sep	18-Sep	15-Sep

SOYBEANS

NOTES FOR ALL SOYBEAN TABLES

Maturity Notes:

1 Soybean varieties have been organized into 4 maturity zones - very early, early, mid and long season areas.

2 Maturity grouping is a ranking of maturity provided by seed suppliers. Rankings are asigned to assist growers in selecting varieties suited for their area.

3 Relative days to maturity is the number of days from seeding to plant maturity (95% of the pods on plant are mature with seeds rattling in the pods when plant is shaken). Expressed as + or - days from the check. Caution needed when using only one year data to evaluate maturity and yield. Using multiple years will provide a better indication on how a variety will mature with different growing seasons. Actual days to maturity for the check is found in the grey Check Box at the bottom of the table.

General Notes:

1 Roundup Ready and Conventional soybean varieties are evaluated separately, meaning direct comparison of varieties between different tables is not possible. All trials are solid seeded at 210,000 seeds/acre.

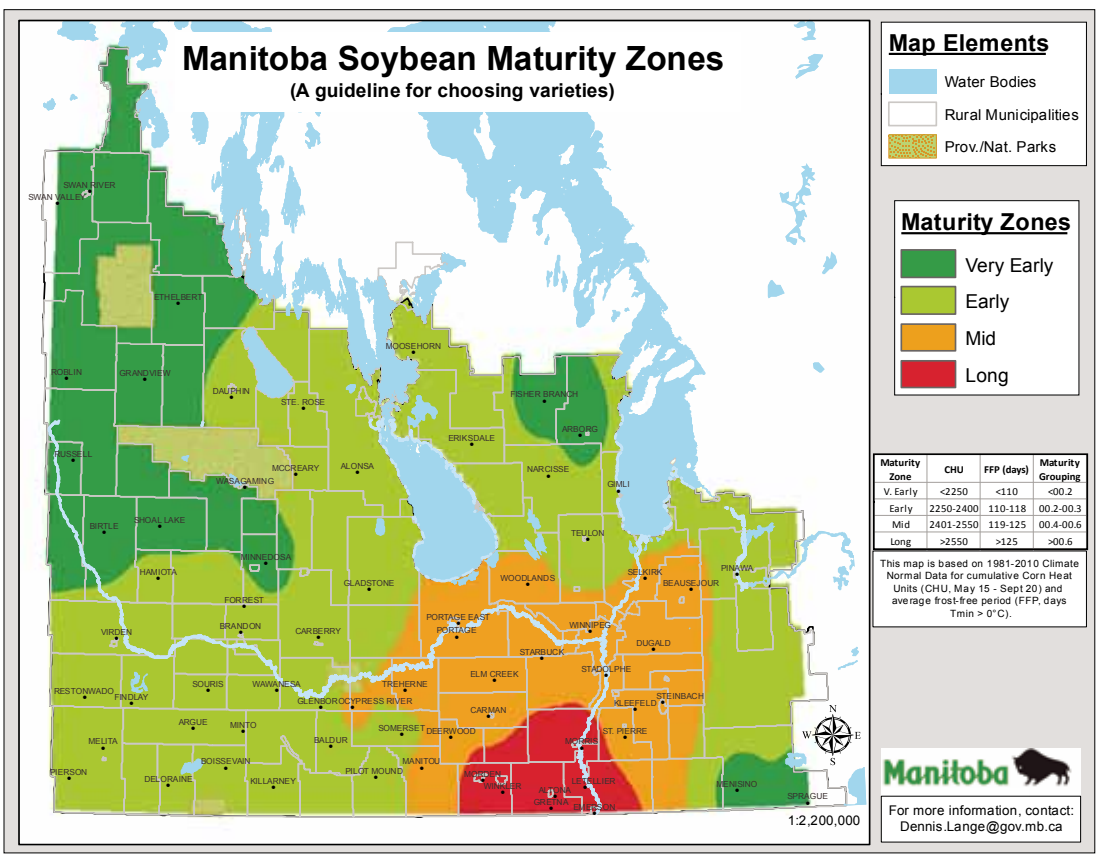
2 Hilum colour can range from Yellow (Y), ImperfectYellow (IY), Grey (G), Brown (BR), Buff (BF), Tan(TN), Clear (CL), Impefect Black (IB)or Black (BL) and is solely a marketing issue. The hilum is the point on the soybean seed where it attaches to the pod.

3 Iron Deficiency Chlorosis (IDC) rating scores 1=green leaves, 2=yellowish leaves, 3=green veins with yellow leaves, 4=brown dead tissue between green veins, 5=severe chlorosis and a stunted growing point. Ratings were taken from a site prone to iron chlorosis over the last 3 years. IDC tolerant varieties are varieties with lower IDC Scores and perform better on soils prone to iron deficiency.

4 Iron Deficiency Chlorosis (IDC) grouping is used because varieties will have different visual rating scores from year to year. Numerical ratings which are close but are in different groupings will show similar symptoms. Both numerical ratings and groupings should be considered together when judging IDC. Tolerant=leaves stayed green, Semi Tolerant=leaves turn yellow then turn green, Susceptible= leaves went chlorotic and had dead patches on their leaves and were often stunted.

MANITOBA SOYBEAN MATURITY MAP

The Soybean Maturity Map outlines the longest maturity suggested for each production area but earlier varieties can also perform well. Use in conjunction with Soybean Variety Description table which outlines varieties according to maturity zones.



WESTERN MANITOBA SOYBEAN

Comments:

The Western Manitoba Soybean variety trial data was donated by the Manitoba Pulse & Soybean Growers

Variety Descriptions

Manitoba Variety Zone	Company Variety	Yield Maturity Grouping	Site % Check	Years Tested	Relative Days to Maturity +/- Check Average	2017	2016	2015	2017 Yield % of NSC Reston RR2Y Boissevain	Carberry	Dauphin	Hamiota	Melita
Very	NSC LEROY RR2Y	000.6	83	10	-7	-8	-7	—	84	89	83	79	75
Early	P000A87R	000	81	5	-7	-7	—	—	82	85	86	73	83
Season	S0009-M2	000.9	100	15	-3	-4	-1	-5	101	100	103	88	96
Zone	Nocoma R2	000.8	98	5	-3	-3	—	—	109	100	100	92	85
	NSC Watson RR2Y	000.8	97	15	-2	-3	0	-4	97	97	99	87	87
	S0009-D6	000.9	90	5	-2	-2	—	—	82	92	101	84	91
	TH 87000 R2YX	000.8	85	5	-2	-2	—	—	80	89	88	87	79
	LS TRI7XT	000.7	90	5	-2	-2	—	—	92	89	97	86	86
	PS 00095 R2	000.9	94	10	-1	-3	0	—	96	98	92	96	99
	P002A63R	00.2	102	5	-1	-1	—	—	104	105	109	90	100
	NSC StarCity RRX2	000.9	91	5	-1	-1	—	—	85	106	89	88	85
	LS TRI9R2Y	000.9	94	5	-1	-1	—	—	97	89	101	90	90
	S001-B1	00.1	101	10	-1	-1	-1	—	92	101	105	100	93
	Barron R2X	000.8	91	5	-1	-1	—	—	96	93	94	82	90
	DARIO R2X	000.8	88	5	-1	-1	—	—	84	88	95	84	90
	22-60 RY	000.9	97	19	0	1	-1	-1	101	104	96	103	100
	NSC RESTON RR2Y	00.1	100	25	0	0	0	0	100	100	100	100	100
	PV 11S001 RR2	00.1	91	5	1	1	—	—	94	96	92	91	81
Early	S003-L3	00.3	104	10	2	0	4	—	101	114	112	96	94
Season	NSC Austin RR2Y	00.3	100	10	2	2	2	—	97	102	111	101	88
Zone	23-60RY	00.2	105	24	2	0	4	2	110	116	108	105	89
	S006-W5	00.5	106	10	2	0	4	—	96	98	119	102	100
	Torro R2	00.1	99	5	2	2	—	—	97	103	111	96	84
	PS 0044 XRN	00.4	100	5	2	2	—	—	105	94	101	101	98
	DKB0008-39	000.8	96	5	2	2	—	—	104	99	96	88	90
	TH 87003 R2X	00.3	109	5	3	3	—	—	106	122	113	105	95
	McLeod R2	00.3	106	25	3	1	4	3	99	106	109	100	94
	PS 0055 R2	00.4	98	10	3	3	3	—	96	105	111	83	96
	Mahony R2	00.3	107	19	3	4	3	3	99	105	111	104	99
	DYLANO R2X	00.4	91	5	3	3	—	—	74	99	108	90	83
	LS 002R24N	00.2	106	24	4	2	6	3	101	113	111	104	93
	DKB003-29	00.3	98	5	4	4	—	—	100	100	105	94	89
	MARDUK R2X	00.2	101	5	4	4	—	—	99	108	108	93	93
	S007-Y4	00.5	109	19	4	3	6	3	99	95	108	106	97
	MANI R2X	00.2	103	5	4	4	—	—	92	106	116	103	94
	Foote R2	00.5	103	5	5	5	—	—	103	107	111	91	101
	P006T46R	00.6	109	10	5	4	6	—	102	111	121	107	100
	NSC Newton RR2X	00.3	89	5	5	5	—	—	88	93	97	83	78
	TH 33003R2Y	00.3	103	25	5	3	7	5	93	108	108	102	83
	PS 0035 NR2	00.3	103	24	5	3	7	5	94	126	115	101	89
Mid	LS MISTRAL	00.5	109	5	5	5	—	—	109	105	121	107	99
Season	Akras R2	00.3	107	19	5	6	4	5	94	116	108	104	114
Zone	Lono R2	00.5	109	19	5	4	7	5	108	112	108	105	104
	Kosmo R2	00.3	92	5	5	5	—	—	91	96	99	91	81
	TH 37004 R2Y	00.4	111	20	6	4	7	—	97	108	109	107	91
	PV 10S005 RR2	00.5	110	5	6	6	—	—	111	116	118	104	95
	DS0067Z1	00.6	99	5	7	7	—	—	92	103	111	94	95
	TH 88005R2XN	00.5	97	5	7	7	—	—	94	103	101	97	85
	LS SOLAIRE	00.2	105	10	7	5	9	—	110	111	121	94	99
	TAMULA R2	00.5	106	10	7	6	8	—	103	126	102	99	95
	CHECK CHARACTERISTICS	53	25		122	124	123	118	**NSC Reston RR2Y (bu/ac)**	62	59	66	64	43
	NSC Reston RR2Y	bu/ac	site years			days to maturity			CV%	8	7	6	6	4
									LSD%	13	12	9	9	6
									Sign Diff.	Yes	Yes	Yes	Yes	Yes
									Seeding Date	18-May	15-May	17-May	10-May	15-May
									Harvest Date	30-Sep	28-Sep	10-Oct	11-Oct	29-Sep

EASTERN MANITOBA CONVENTIONAL SOYBEANS

Comments:

The Eastern Manitoba Conventional Soybean variety trial data was donated by Manitoba Pulse & Soybean Growers

Variety Descriptions

Manitoba Variety Zone	Company Maturity Grouping	Variety	Relative Days to Maturity[1] + / - of Check Average	2017	2016	2015	Yield % Check	Site Years Tested	Hilum Colour	IDC[2] Rating (1- 5)	IDC[2] Grouping
	00.3	AAC Edward	-3	-5	-4	-1	104	29	IY	1.8	ST
Early	000.9	AAC Halli	-2	-3	-1	-1	99	22	Y	2.3	S
Season		**Experimental lines that are being tested / proposed for registration in Canada**									
Zone	00.0	OT 16-01	-4	-4	—	—	106	7	IY	2.1	ST
	000.5	PR110530Z041	-4	-4	—	—	97	6	IY	1.6	T
	00.3	OAC Prudence	0	0	0	0	100	117	Y	1.6	T
	00.2	Maxus	0	0	—	—	98	6	IY	2.2	ST
Mid		**Experimental lines that are being tested / proposed for registration in Canada**									
Season	000.7	PR110524Z023	-1	-1	—	—	102	6	IY	1.7	T
Zone	000	Terra-11	-1	-1	—	—	114	6	CL	2.2	ST
	00.2	OT 16-02	0	0	—	—	107	7	Y	2.3	S
	00.4	Terra-12	2	2	—	—	96	6	CL	1.9	ST
	0.0	Opus	6	6	—	—	108	6	IY	2.2	ST
		Experimental lines that are being tested / proposed for registration in Canada									
Long	00.4	OT 16-04	3	3	—	—	118	6	IY	2.5	S
Season	00.3	OT 16-05	3	3	—	—	120	6	IY	2.5	S
Zone	00.6	OT 16-06	4	4	—	—	119	6	Y	2.4	S
	00.5	Terra-13	4	4	—	—	102	6	CL	2.1	ST
	00.9	OAC 13-05C	10	6	10	—	127	13	IY	3.0	S
	0.1	OT15-02	10	5	10	—	116	10	IY	2.4	S
CHECK CHARACTERISTICS											
OAC Prudence			114	118	117	108	49	117			
			days to maturity				bu/acre	site years			

1 Maturity Ratings for 2017 are average across Carman, Morris, Portage, St. Adolphe

2 Iron Deficiency Chlorosis (IDC) Groupings; T=Tolerant, ST=Semi-Torerant, S=Suceptible

EASTERN CONVENTIONAL SOYBEANS *(continued)*

Yield Comparisons

Manitoba Variety Zone	Variety	2017 Yield % of OAC Prudence								
		Early Sites			Core Sites				Late Sites	
		Arborg	Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	Morden	Rosebank
	AAC Edward	103	98	91	130	108	100	116	—	—
Early	AAC Halli	108	99	102	101	92	94	119	—	—
Season	**Experimental lines that are being tested / proposed for registration in Canada**									
Zone	OT 16-01	102	110	93	130	105	93	111	—	—
	PR110530Z041	—	—	—	112	87	97	99	100	97
	OAC Prudence	100	100	100	100	100	100	100	100	100
	Maxus	—	—	—	107	76	83	115	95	118
Mid	**Experimental lines that are being tested / proposed for registration in Canada**									
Season	PR110524Z023	—	—	—	115	99	105	89	104	100
Zone	Terra-11	—	—	—	119	98	100	116	121	131
	OT 16-02	94	106	115	119	102	97	123	—	—
	Terra-12	—	—	—	107	93	86	101	96	112
	Opus		—	—	132	87	97	109	101	124
	Experimental lines that are being tested / proposed for registration in Canada									
Long	OT 16-04	—	—	—	118	111	114	124	110	136
Season	OT 16-05	—	—	—	135	104	114	129	126	123
Zone	OT 16-06	—	—	—	137	106	107	129	107	141
	Terra-13	—	—	—	125	96	91	107	93	107
	OAC 13-05C	—	—	—	133	109	110	140	123	154
	OT15-02	—	—	—	116	99	122	126	126	152
Check Characteristics OAC Prudence (bu/acre)		35	50	37	41	40	41	25	45	44
	CV %	13	7	4	8	12	7	6	11	6
	LSD %	25	14	7	16	19	11	12	19	12
	Sign Diff	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes
	Seeding Date	23-May	26-May	16-May	15-May	19-May	26-May	15-May	18-May	15-May
	Harvest date	13-Oct	12-Oct	30-Sep	29-Sep	05-Oct	05-Oct	28-Sep	11-Oct	30-Sep

WESTERN MANITOBA CONVENTIONAL SOYBEAN

Comments:

The Western Manitoba Conventional soybean variety trial data donated by the Manitoba Pulse & Soybean Growers

Variety Descriptions

Manitoba Maturity Zone	Company Maturity Grouping	Variety	Yield %Check	Site Years Tested	Hilum Color	Relative Days to Maturity[1] Average	2017	2016	2017 Yield %OAC Prudence Carberry	Melita
Early	000.9	AAC Halli	103	3	Y	-1	0	-2	97	98
Season	00.4	AAC Edward	106	3	IY	-2	-2	-1	100	97
Zone	000	FJORD	85	3	IY	-2	-4	0	80	72
	00.3	OAC Prudence	100	3	Y	0	0	0	100	100
Mid	000	ANSER	109	3	IY	3	0	5	106	101
Season	00	KEBEK	117	3	Y	4	1	6	104	92
Zone		**Experimental lines that are being tested / proposed for registration in Canada**								
	000	OT 16-01	97	3	IY	0	0	—	103	90
	000	OT 16-02	106	3	IY	2	-1	4	104	110
		CHECK CHARACTERISTICS							**OAC Prudence (bu/acre)**	57	41
		OAC Prudence (bu/ac)	42	3		112	116	107	CV%	10	8
			bu/ac	site years		days to maturity			LSD%	17	13
									Sign Diff	Yes	Yes
									Seeding Date	15-May	15-May
									Harvest Date	28-Sep	28-Sep

1 Maturity Based on Data from Carberry and Melita

EASTERN MANITOBA ROUNDUP READY SOYBEAN

Variety Descriptions

Manitoba Variety Zone	Company Maturity Grouping	Variety	Type[1]	Relative Days to Maturity[2] + / - of Check Average	2017	2016	2015	Yield % Check	Site Years Tested	Hilum Colour	IDC[3] Rating (1- 5)	IDC[3] Grouping	Resistance to: SCN[4]	Resistance to: PRR[5]
	000.6	NSC LEROY RR2Y	R2Y	-13	—	-13	—	78	5	Y	2.2	ST	—	—
Very	000.9	22-60 RY	R2Y	-10	—	-10	-9	90	18	BL	2.1	ST	—	1c
Early	000.9	S0009-M2	R2Y	-8	-8	-9	-8	89	17	IY	2.2	ST	—	Rps6
Zone	000.9	PS 00095 R2	R2Y	-8	-6	-9	—	87	10	BL	1.7	T	—	—
	000.8	Nocoma R2Ⓡ	R2Y	-7	-7	—	—	93	6	B	2.2	ST	—	—
	000.8	NSC Watson RR2Y	R2Y	-7	-5	-8	-8	88	17	IY	2.1	ST	—	—
	00.1	NSC RESTON RR2Y	R2Y	-6	—	-7	-5	92	28	BL	2.6	S	—	1k
	00.1	S001-B1	R2Y	-6	—	-6	—	93	5	Y	1.9	ST	—	—
	00.1	Notus R2	R2Y	-6	—	-7	-5	95	18	BL	1.7	T	—	1c
	00.3	McLeod R2	R2Y	-5	—	-5	-5	95	28	BL	1.8	ST	—	—
	000.9	S0009-D6	R2Y	-5	-5	—	—	94	6	IY	2.4	S	—	1k
	00.2	Bishop R2	R2Y	-5	—	-4	-6	91	30	IY	2.3	S	—	—
	00.3	NSC Austin RR2Y	R2Y	-5	—	-4	-5	93	9	Y	2.2	ST	—	—
	000.9	LS TRI9R2Y	R2Y	-4	-4	—	—	94	6	IY	2.5	S	—	—
	00.2	P002A63RⓇ	RR1	-4	-4	—	—	99	6	TN	2.0	ST	—	1c
	00.1	PV 11S001 RR2	R2Y	-4	-4	—	—	94	6	Y	1.8	ST	—	—
Early	000.7	LS TRI7XT	R2X	-4	-4	—	—	88	6	GR	2.3	S	—	—
Season	00.5	S007-Y4	R2Y	-4	-2	-5	-5	105	30	IY	2.0	ST	—	1c
Zone	00.2	23-60RY	R2Y	-4	-3	-4	-4	102	30	BL	1.7	T	Yes	—
	00.3	S003-L3	R2Y	-4	-2	-4	-5	95	17	BR	2.2	ST	Yes	1c,1k
	00.2	LS 002R24N	R2Y	-4	—	-4	-3	103	24	BL	2.0	ST	Yes	—
	00.3	PS 0035 NR2	R2Y	-3	—	-3	-4	100	24	BL	1.9	ST	Yes	—
	000	Torro R2	R2Y	-3	-2	-5	—	94	17	BL	2.2	ST	—	1c
	00.6	P006T46RⓇ	RR1	-3	-3	-4	—	99	11	BR	2.0	ST	—	1c
	00.5	Lono R2Ⓡ	R2Y	-3	—	-3	-3	105	24	Y	2.0	ST	—	1k
	00.4	PS 0055 R2	R2Y	-3	—	-2	-5	97	15	IY	1.8	ST	—	1k
	00.3	Mahony R2	R2Y	-3	0	-5	-5	101	24	BL	2.9	S	—	—
	000.8	Barron R2X	R2X	-3	-3	—		91	6	BR	2.5	S	—	—
	00.5	S006-W5	R2Y	-3	-2	-3	-3	111	14	IY	2.5	S	—	1c,1k
	00.8	TH 87000 R2YX	R2X	—	—	—	—	nt*	nt	IY	2.1	ST	—	—
	000.9	NSC StarCity RRX2	R2X	—	—	—	—	nt	nt	BR	2.2	ST	—	—
	000.8	DKB0008-39	R2X	—	—	—	—	nt	nt	GR	2.2	ST	—	—
	000	P000A87RⓇ	RR1	—	—	—	—	nt	nt	TN	1.7	T	—	1k
	00.3	Akras R2	R2Y	-2	1	-4	-4	104	35	BL	1.7	T	—	1k
	00.5	Foote R2	R2Y	-2	0	-4	—	99	11	IY	1.8	ST	—	1c
	00.3	Kosmo R2	R2Y	-2	—	-2	—	84	5	Y	1.9	ST	—	—
	000	DARIO R2X	R2X	-2	-2	—	—	88	6	BR	2.8	S	—	—
	00.3	NSC Gladstone RR2Y	R2Y	-2	1	-3	-3	100	30	BL	2.1	ST	—	1c
	00.5	24-10RY	R2Y	-2	0	-3	-2	102	44	BL	1.9	ST	—	1c
	00.3	LS 003R24N	R2Y	-2	—	-1	-2	102	21	BL	1.9	ST	Yes	1c
	00.2	MANI R2X	R2X	-1	-1	—	—	104	6	BL	1.8	ST	Yes	1c
	00.3	DKB003-29	R2X	-1	-1	—	—	103	6	BL	1.7	T	—	—
Mid	00.2	LS SOLAIRE	R2Y	-1	1	-3	—	93	11	BL	2.4	S	—	1c,1k
Season	00.7	P007A90RⓇ	RR1	-1	-1	—	—	101	5	BL	1.9	ST	Yes	1c
Zone	00.5	Gray R2	R2Y	0	0	0	-1	100	33	BL	1.9	ST	—	1c
	00.4	LS 004XT	R2X	0	0	—	—	98	5	BL	1.9	ST	—	1c
	00.6	24-12RY	R2Y	0	1	-1	—	100	10	BL	2.0	ST	—	—
	00.4	PS 0044 XRN	R2X	0	0	—	—	101	6	BL	2.0	ST	Yes	1a,1k
	00.3	TH 33003R2Y	R2Y	0	0	0	0	100	44	BR	2.0	ST	—	1c
	00.7	NSC Richer RR2Y	R2Y	0	—	1	0	104	24	BL	1.6	T	—	1c
	00.8	P008T22R2Ⓡ	R2Y	0	2	0	-1	103	29	BL	1.6	T	—	1c
	00.5	TAMULA R2	R2Y	1	1	0	—	100	11	Y	2.3	S	—	—
	00.4	TH 37004 R2Y	R2Y	1	1	—	—	99	11	BL	2.0	ST	Yes	1c
	00.3	TH 87003 R2X	R2X	1	1	—	—	108	6	BL	1.7	T	—	—

Manitoba Variety Zone	Company Maturity Grouping	Variety	Type[1]	Relative Days to Maturity[2] + / - of Check Average	2017	2016	2015	Yield % Check	Site Years Tested	Hilum Colour	IDC[3] Rating (1- 5)	IDC[3] Grouping	Resistance to: SCN[4]	Resistance to: PRR[5]
	00.6	DUGALDO R2X	R2X	1	1	—	—	98	5	IY	2.3	S	—	—
	00.4	DYLANO R2X	R2X	1	1	—	—	90	6	GR	2.3	S	—	—
	00.7	NSC Riverside RR2X	R2X	1	1	—	—	98	5	BL	2.1	ST	—	—
	00.6	HS 006RYS24	R2Y	1	2	1	0	100	39	BL	1.7	T	—	—
	00.2	MARDUK R2X	R2X	1	1	—	—	101	6	Y	2.0	ST	—	1c
	00.3	NSC Newton RR2X	R2X	1	1	—	—	102	6	BR	2.1	ST	—	—
	00.8	Currie R2	R2Y	2	—	2	1	103	24	BL	1.8	ST	—	1k
Mid	00.5	LS Eclipse	R2Y	2	—	2	1	108	8	BL	2.2	ST	Yes	1c
Season	00.5	NSC Starbuck RRX2	R2X	2	2	—	—	102	6	BL	2.0	ST	—	—
Zone	00.6	DS0067Z1	R2Y	2	3	1	—	102	11	BL	1.7	T	—	—
	00.7	TH 88007R2X	R2X	2	2	—	—	106	6	BL	2.2	ST	—	1c
	00.6	DKB006-29	R2X	2	2	—	—	103	5	BL	1.6	T	—	—
	00.5	BARKER R2X	R2X	2	2	—	—	104	5	BL	1.8	ST	Yes	1k
	00.5	TH 88005R2XN	R2X	2	2	—	—	100	6	BL	1.8	ST	Yes	1c
	00.7	PV 12S007 R2X	R2X	2	2	—	—	104	5	BL	2.0	ST	—	—
	00.5	DKB005-52	R2X	2	2	—	—	108	5	BL	2.0	ST	—	—
	00.5	PRO 2525R2	R2Y	2	5	1	1	107	22	BL	1.7	T	—	—
		Experimental lines that are being tested / proposed for registration in Canada												
	00.7	EXP00717 XRN	R2X	2	2	—	—	103	5	BL	1.9	ST	Yes	1k
	00.8	S008-N2	R2Y	3	3	2	—	105	9	IY	1.8	ST	—	—
	00.6	LS 006XT	R2X	3	3	—	—	100	5	BL	1.7	T	—	—
	00.8	DOMINGO R2X	R2X	3	3	—	—	97	5	IY	2.0	ST	—	—
	00.6	0066 XR	R2X	3	3	—		101	5	IY	2.4	S	—	—
Long	00.8	TH 88008 R2X	R2X	3	3	—	—	103	6	BL	1.8	ST	—	1k
Season	00.7	PS 0074 R2	R2Y	3	5	3	1	107	24	BR	1.7	ST	—	—
Zone	00.5	LS MISTRAL	R2Y	3	5	2	—	112	10	BL	1.7	T	—	—
	00.9	NSC JORDAN RR2Y	R2Y	3	—	3	—	106	4	BL	2.2	ST	—	—
	0.1	HYDRA R2	R2Y	3	—	4	1	104	12	BL	2.1	ST	—	1k
	00.5	PV 10S005 RR2	R2Y	4	4	—	—	106	5	BL	1.9	ST	—	—
	00.7	RX00797	R2X	4	4	—	—	104	5	BL	1.6	T	Yes	1c
	00.8	DKB008-81	R2X	4	4	—	—	101	5	GR	1.9	ST	—	—
	0.2	LEMPO R2X	R2X	7	7	—	—	101	5	GR	2.1	ST	—	—
CHECK CHARACTERISTICS														
TH 33003R2Y				118	117	121	115	51	44					
				days to maturity				bu/acre	site years					

* nt indicates not tested in 2017

1 R2X Indicates xtend Technolgy

2 Maturity Ratings for 2017 are average across Carman, Morris, Portage, St. Adolphe

3 Iron Deficiency Chlorosis (IDC) Groupings; T=Tolerant, ST=Semi-Torerant, S=Suceptible

4 SCN -Soybean Cyst Nematode Resitance

5 PRR Phytophthora Root Rot

EASTERN ROUND UP READY SOYBEANS *(continued)*

Yield Comparison

Manitoba Variety Zone	Variety	2017 Yield: % TH 33003R2Y						
		Early Sites		Core Sites				Late Sites
		Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	Rosebank
Very	S0009-M2	98	86	96	80	100	84	—
Early	PS 00095 R2	95	86	100	82	104	85	—
Season	NocomaR2	89	92	97	96	89	94	—
Zone	NSC Watson RR2Y	106	90	96	86	99	82	—
	S0009-D6	120	81	97	88	87	80	—
	LS TRI9R2Y	110	75	102	81	97	86	—
	P002A63R	129	84	90	111	95	79	—
	PV 11S001 RR2	100	87	102	91	91	85	—
Early	LS TRI7XT	100	82	91	80	90	81	—
Season	S007-Y4	115	106	98	94	108	110	—
Zone	23-60RY	109	99	102	110	115	106	—
	S003-L3	96	99	93	87	109	93	—
	Torro R2	124	99	101	110	101	94	—
	P006T46R	105	86	104	98	111	95	—
	Mahony R2	115	94	101	104	101	99	—
	Barron R2X	114	80	90	84	88	84	—
	S006-W5	140	100	119	97	109	83	—
	Akras R2	113	106	103	106	109	114	—
	Foote R2	121	82	101	79	115	98	—
	DARIO R2X	100	83	87	71	98	87	—
	NSC Gladstone RR2Y	116	97	91	99	100	108	—
	24-10RY	115	96	108	115	107	102	99
	MANI R2X	110	99	103	103	105	106	—
	DKB003-29	103	107	97	113	103	100	—
	LS SOLAIRE	97	92	96	104	101	99	—
	P007A90R	—	—	100	101	118	102	89
	Gray R2	—	—	106	88	109	86	94
	LS 004XT	—	—	102	92	108	91	95
	24-12RY	—	—	104	108	103	83	105
	PS 0044 XRN	116	83	105	98	100	94	—
	TH 33003R2Y	100	100	100	100	100	100	100
Mid	P008T22R2	—	—	101	104	96	95	96
Season	TAMULA R2	88	103	105	101	113	115	—
Zone	TH 37004 R2Y	125	83	100	102	104	88	—
	TH 87003 R2X	119	105	107	113	101	97	—
	DUGALDO R2X	—	—	97	99	105	99	94
	DYLANO R2X	88	83	96	89	95	77	—
	NSC Riverside RR2X	—	—	99	87	95	104	105
	HS 006RYS24	114	92	103	105	105	100	—
	MARDUK R2X	116	97	102	99	91	98	—
	NSC Newton RR2X	120	99	95	94	102	102	—
	NSC Starbuck RRX2	126	88	95	105	100	97	—
	DS0067Z1	101	86	92	96	113	90	—
	TH 88007R2X	116	101	106	104	105	102	—
	DKB006-29	—	—	110	111	97	100	95
	BARKER R2X	—	—	106	106	109	98	101
	TH 88005R2XN	101	86	91	112	111	103	—
	PV 12S007 R2X	—	—	109	105	106	96	100
	DKB005-52	—	—	111	115	113	92	106
	PRO 2525R2	—	—	106	97	109	100	100
	Experimental lines that are being tested / proposed for registration in Canada							
	EXP00717 XRN	—	—	108	103	108	96	99

Manitoba Variety Zone	Variety	2017 Yield: % TH 33003R2Y						
		Early Sites		Core Sites				Late Sites
		Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	Rosebank
	S008-N2	—	—	100	93	107	102	107
	LS 006XT	—	—	103	95	95	97	102
	DOMINGO R2X	—	—	91	100	104	92	97
Long	0066 XR	—	—	98	98	102	95	109
Season	TH 88008 R2X	114	98	103	98	99	106	—
Zone	PS 0074 R2	—	—	100	95	121	102	110
	LS MISTRAL	122	100	113	109	111	101	—
	PV 10S005 RR2	—	—	109	83	114	106	114
	RX00797	—	—	104	102	116	104	98
	DKB008-81	—	—	105	81	97	89	114
	LEMPO R2X	—	—	101	83	103	88	116
Check Characteristics	**TH 33003R2Y (bu/ac)**	50	39	56	47	44	33	60
	CV%	13	5	5	8	8	5	5
	LSD%	24	8	9	12	13	8	9
	Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Seeding Date	26-May	16-May	15-May	19-May	26-May	15-May	15-May
	Harvest Date	11-Oct	30-Sep	29-Sep	05-Oct	05-Oct	21-Sep	30-Sep

SUNFLOWERS - NON-OIL TYPE

Comments:

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

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.

Variety Descriptions

Company	Hybrid	Genetic Traits[1]	Site Years	Yield % Check	Maturity (days to R9)	Height (inches)	Seed Sizing(%) >22/64 inch	>20/64 inch	Medium
NuSeed America	6946 DMR	DM	15	100	0	0	40	30	30
NuSeed America	Jaguar DMR	CL / DM	3	97	1	4	61	20	19
NuSeed America	Panther DMR	DM	6	92	0	-3	54	25	21
Experimental lines being tested/proposed for registration in Canada									
NuSeed America	NSKM53777	CL	4	97	7	-4	75	22	3
NSAC	57007	ExSun	4	88	4	7	55	27	18
NSAC	57085	ExSun	4	110	-1	6	52	30	18
NSAC	57009	ExSun	4	80	2	-1	61	23	16
	CHECK CHARACTERISTICS								
	6496 DMR		15 site years	3406 lb/ac	118 days	70 inches			

1 Genetic traits include CL = Clearfield tolerance; ExSun = Express tolerance; DM = Downy Mildew Resistance.

Site Comparisons

Hybrid	Carberry Yield (lb/ac)	Carberry Maturity*	Carberry Test Wt (lb/bu A)	Rossendale Yield (lb/ac)	Rossendale Maturity*	Rossendale Test Wt (lb/bu A)	Marquette Yield (lb/ac)	Marquette Maturity*	Marquette Test Wt (lb/bu A)	Melita Yield (lb/ac)	Melita Maturity*	Melita Test Wt (lb/bu A)
6946 DMR	3345	117	28.1	2789	120	25.4	3275	130	25.4	3480	140	26.3
Panther DMR	2629	116	23.8	2848	120	25.2	3792	132	24.6	2255	141	25.5
Experimental lines being tested/proposed for registration in Canada												
NSKM53777	3140	119	24.1	2849	130	23.2	3405	133	24.0	3141	142	21.9
57007	1558	115	21.7	3139	125	24.3	3456	133	24.6	3201	140	24.2
57085	3217	117	21.7	3474	119	23.5	3913	129	24.1	3511	138	24.4
57009	1524	114	20.2	2503	123	24.7	3344	131	24.4	2981	140	24.3
Site Average (lb/ac)	2569	116		2934	123	24.4	3530	131	24.5	3094	140	24.3
CV%	10.3			9.4			7.2			8.2		
Sign Diff	Yes			Yes			Yes			Yes		
LSD (0.05)	479			501			464			464		
Planting Date	11-May			12-May			10-May			18-May		
Desiccation Date	—			18-Sep			18-Sep			02-Oct		
Harvest Date	October			02-Oct			06-Oct			11-Oct		

*Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.
At Carberry, heads were clipped and dried artificially for stationary combining.

SUNFLOWERS - OIL TYPE

Comments:

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

Oil Sunflower markets - include birdfood, oil crush and de-hull. Variety selection become 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.

Variety Descriptions

Company	Variety	Herbicide Tolerance	Site Years	YIELD % Check	Maturity (days to R9)	Height (inches)	% Oil	Oil Type	Sizing (>16/64)	Test Weight
Dow Seed	8H288CLDM	CL / DM	6	94	3	-5	48.4	HO	6	31.4
NuSeed America	Cobalt II	CL / DM	9	102	2	-4	46.2	HO	17	33.7
NuSeed America	Talon	ExSun	6	104	-1	-4	45.3	NS	41	29.6
NuSeed America	N4HM354	CL / DM	6	111	0	-4	48.3	HO	14	34.7
DuPont Pioneer	P63ME70	ExSun / DM	11	100	0	0	47.8	NS	37	31.2
DuPont Pioneer	P63ME80	ExSun / DM	11	101	2	0	49.9	NS	40	32.6
Experimental lines being tested/proposed for registration in Canada										
Dow Seed	MY8H131CL	CL	6	97	-3	-10	47.9	HO	62	32.4
Dow Seed	MY8H270CL	CL	3	98	-1	-10	47.8	HO	17	33.6
Quarry Seed	Honeycomb NS	—	6	85	-10	-8	41.9	NS	—	31.0
DuPont Pioneer	P63HE60	ExSun / DM	6	99	-2	-1	47.2	HO	32	33.4
	CHECK CHARACTERISTICS									
	P63ME70		11 site years	3482 lb/ac	122 days	72 inches				

1 Genetic traits include CL = Clearfield tolerance; ExSun = Express tolerance; DM = Downy Mildew Resistance.
2 Oil Type include NS=NuSun; HO=High Oleic.
At Carberry, heads were clipped and dried artificially for stationary combining.

Site Comparisons

Hybrid	Carberry Yield (lb/ac)	Carberry Maturity* (days to R9)	Carberry Test Wt (lb/bu A)	Rossendale Yield (lb/ac)	Rossendale Maturity* (days to R9)	Rossendale Test Wt (lb/bu A)	Marquette Yield (lb/ac)	Marquette Maturity* (days to R9)	Marquette Test Wt (lb/bu A)
8H288CLDM	2919	120	35.4	2649	123	32.7	2833	132	33.5
Cobalt II	3496	118	37.4	3221	130	35.8	3125	132	36.5
Talon	3031	118	33.7	3326	126	31.0	3452	131	31.5
N4HM354	3692	117	37.7	3355	125	36.8	3549	132	37.2
P63ME70	3364	119	34.3	3152	123	31.5	3372	132	31.2
P63ME80	3214	119	35.4	2982	129	33.4	3117	133	33.9
Experimental lines being tested/proposed for registration in Canada									
MY8H131CL (E84131)	3097	116	34.4	3097	120	35.0	2986	124	35.6
MY8H270CL	3019	118	35.9	2934	124	34.0	3094	128	34.5
P63HE60	3353	118	37.0	2970	120	33.0	3062	130	34.9
Site Average (lb/ac)	3199	118	35.4	3030	124	33.7	3146	130	34.3
CV%	4.3			6.2			6.1		
Sign Diff	Yes			Yes			Yes		
LSD (0.05)	238			324			329		
Planting Date	11-May			12-May			10-May		
Desiccation Date	—			18-Sep			18-Sep		
Harvest Date	October			02-Oct			06-Oct		

*Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.