MANITOBA Pulse Soybean GROWERS

This publication features the results from MPSG-sponsored trials.

Contents of this publication can only be reproduced with the permission of MPSG.

KEY FOR SOYBEAN VARIETY TABLES

Manitoba Variety Zone – Soybean varieties are organized into four maturity zones – very early-, early-, mid- and long-season. These categories reflect the *Manitoba Soybean Maturity Zones* map, based on long-term heat unit and frost-free period data. Varieties fit into respective zones based on average relative days to maturity. Each zone indicates the longest season varieties that should be selected for a given region.

Company Maturity Group – The maturity ranking provided by seed suppliers, indicating growing season length. Triple zero (000) and double zero (00) soybean varieties are best suited to Manitoba. Varieties currently tested in Manitoba range from 000 (earliest) to 0.1 (longest).

Type

RR1 = Roundup Ready 1 soybeans with glyphosate herbicide tolerance

R2Y = Genuity® Roundup Ready 2 Yield® soybeans with glyphosate herbicide tolerance

R2X = Roundup Ready 2 Xtend® soybeans with dicamba and glyphosate herbicide tolerance

DTM +/- Check – The number of days from planting to full maturity (R8 or 95% brown pod). It is expressed as + or – days relative to the check variety. Actual days to maturity for the check variety is found in the shaded area at the bottom of the table. Average days to maturity is calculated from multiple site years. Maturity can vary by year, which is why it is important to use long-term data for variety selection.

Hilum Colour – The hilum is the area of a soybean seed that was previously attached to the pod. Hilum colour is a marketing factor that varies among soybean varieties. Hilum colour can be clear (CL), yellow (Y), imperfect yellow (IY), grey (GR), light brown (LB), brown (BR), tan (TN), imperfect black (IB) or black (BL).

Table 1. Field risk of IDC based on carbonate and soluble salt soil test levels.

Soluble Salt	Carbonate (%)		
(mmhos/cm)	0 to 2.5	2.6 to 5	>5.0
0 to 0.25	Low	Low	Moderate
0.26 to 0.50	Low	Moderate	High
0.50 to 1.0	Moderate	High	Very high
>1.0	High	Very high	Extreme

Source: Agvise Laboratories

IDC Rating and Group – The iron deficiency chlorosis (IDC) rating is the severity of IDC on a scale of one to five at the V2 to V3 stages. Ratings are conducted over three to five weeks, or until the symptoms dissipate. The greater the value, the more severe and persistent the IDC symptoms. Lower IDC ratings perform better on soils prone to IDC. Ratings are reported as the three-year average from a site near Winnipeg that is prone to IDC. Each variety is also assigned a group to indicate the overall level of tolerance.

IDC Ratings

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

IDC Groups

T = tolerant ST = semi-tolerant S = susceptible

Table 2. Resistance to *Phytopthora sojae* (rps) genes currently available in Manitoba for control of Phytophthora root rot.

Race of *P. sojae*	Rps Gene				
	1a	1c	1k	3a	6
New Pathotype	S	S	S	S	R
25	S	S	S	R	R
4	S	S	R	R	R
28	S	R	S	R	R
3	S	R	R	R	R

S = susceptible R = resistant

Source: Debra McLaren, AAFC

SCN – Variety resistance to soybean cyst nematode (SCN). The presence of SCN was confirmed for the first time in Manitoba in 2019. For full details of SCN findings, visit manitobapulse.ca.

PRR – Phytophthora root rot (PRR) race-specific resistance genes for each variety. Resistance genes that correspond with prevalent races in Manitoba are listed in Table 2. A new pathotype was most prevalent in Manitoba in 2018, according to Agriculture and Agri-Food Canada research. Soybean varieties with the rps 6 gene are resistant to this new pathotype.

IDC Rating 1

IDC Rating 1.7

IDC Rating 2.1

IDC Rating 2.5

IDC Rating 3.5

IDC Rating 4.0

Manitoba Maturity Zone	Company Maturity Group	Variety	Type	Average DTM +/- Check†	Yield % Check	Site Years Tested	Hilum Colour	IDC Rating (1–5)	IDC Group	Resistance SCN	Resistance PRR
Very Early-Season Zone	000.8	LS TRI8XT	R2X	-10	86	2	BL	1.9	ST	yes	1c
	000.5	NocomaR2	R2Y	-9	94	12	BL	2.0	ST	–	1c
	000.9	S0009-M2	R2Y	-9	89	12	IY	2.0	ST	–	6
	00.4	TH89004 R2X	R2X	-8	94	2	BR	1.8	ST	–	1c
	000.7	PS 00078 XRN	R2X	-7	95	8	BL	1.9	ST	yes	1c
	00.2	Devo R2X	R2X	-6	94	8	BR	1.8	ST	–	–
	000.9	RX000918	R2X	-6	103	2	BL	1.7	T	yes	1c
Early-Season Zone	00.1	P001A48X	R2X	-5	99	2	TN	1.7	T	–	1c
	00.1	PV 11s001 RR2	R2Y	-5	90	12	Y	1.9	ST	–	1c
	000.7	Karpo R2	R2Y	-5	104	2	GR	2.2	ST	–	–
	00.2	RX00218	R2X	-5	89	8	BR	1.9	ST	–	–
	000.2	Notus R2	R2Y	-5	103	8	BL	1.6	T	–	1c
	00.3	P003A97X	R2X	-5	99	2	GR	1.9	ST	yes	1k
	00.1	Torro R2	R2Y	-5	100	12	BL	2.2	ST	–	–
	00.2	NSC Redvers RR2X	R2X	-4	97	2	BL	1.9	ST	yes	1c
	000.9	PV 15s0009 R2X	R2X	-4	99	8	BL	2.0	ST	yes	1c
	00.4	NSC Culross RR2X	R2X	-3	98	2	BL	1.7	T	–	1c
	00.1	LS 001XT	R2X	-3	105	8	BL	1.7	T	yes	1k
	00.5	Lono R2	R2Y	-3	107	8	Y	2.0	ST	–	1c
Mid-Season Zone	00.3	Dinero R2X	R2X	-2	97	8	IY	1.7	T	–	–
	00.4	TH 32004R2Y	R2Y	-2	102	2	BL	1.7	T	–	1c
	00.1	Prince R2X	R2X	-2	94	8	BL	1.7	T	–	1k
	00.6	S006-M4X	R2X	-2	98	8	IY	1.9	ST	–	1c
	00.5	S007-Y4	R2Y	-2	103	12	IY	2.0	ST	–	1c
	00.5	P005A83X	R2X	-1	104	2	BL	1.8	ST	yes	1c
	00.5	S006-W5	R2X	-1	96	12	IY	2.5	S	–	1a,3a
	00.3	Mahony R2	R2Y	-1	99	12	BL	2.9	S	–	–
	000.9	Akras R2	R2Y	-1	107	12	BL	1.7	T	–	1c
	00.3	B0030L1	R2Y	-1	93	2	BR	1.9	ST	–	–
	00.5	P005A27X	R2X	-1	106	8	BR	1.8	ST	–	1c
	00.1	Sunna R2X	R2X	0	104	8	GR	1.7	T	yes	1c
	00.7	P007A90R	RR1	0	100	13	BL	1.7	T	yes	1c
	00.4	Bourke R2X	R2X	0	106	8	BL	1.8	ST	–	1k
	00.3	DKB003-29	R2X	0	99	12	BL	1.7	T	yes	–
	00.6	NSC Sperling RR2Y	R2Y	0	107	8	IY	1.7	T	–	1a
	00.6	PS 0068 XR	R2X	0	104	5	BL	1.8	ST	–	1c
	00.5	Foote R2	R2X	0	95	12	IY	1.8	ST	–	1c
	00.3	TH 33003R2Y	R2Y	1	100	13	BR	1.9	ST	–	1c
	00.3	PS 0044 XRN	R2X	1	96	12	BL	1.8	ST	yes	1a,1k
	00.5	Gray R2	R2Y	1	98	10	BL	1.9	ST	–	1c
	00.6	P006A37X	R2X	1	107	8	BR	1.8	ST	–	1c
	00.6	Dugaldo R2X	R2X	1	100	10	IY	2.1	ST	–	1c,1a,6
	00.5	TH 33005R2Y	R2Y	1	100	8	IB	1.9	ST	–	1c
	00.3	TH 87003 R2X	R2X	1	100	12	BL	1.7	T	yes	1c
	00.4	B0040L1	R2Y	2	94	8	BR	1.7	T	–	–
	00.7	P007A08X	R2X	2	114	2	GR	1.8	ST	–	1c
	00.5	Barker R2X	R2X	2	103	10	BL	1.8	ST	yes	1k
	00.4	PV 16s004 R2X	R2X	2	100	8	BL	1.9	ST	yes	1k
	00.5	DKB005-52	R2X	2	100	13	BL	1.8	ST	yes	1c
	00.6	DKB006-99	R2X	2	102	6	BL	1.8	ST	yes	3a
Long-Season Zone	00.8	PV 14s008 RR2	R2Y	3	104	8	IY	1.7	T	–	–
	00.5	LS Eclipse	R2Y	3	106	5	BL	2.2	ST	yes	1c
	00.7	TH 88007R2X	R2X	3	102	9	BL	1.8	ST	–	1c
	00.6	B0066L1	R2Y	3	96	2	Y	1.9	ST	yes	1k
	00.7	RX00797	R2X	4	100	11	BL	1.7	T	yes	1c
	00.5	TH 88005R2XN	R2X	4	100	9	BL	1.8	ST	yes	1c
	00.7	PV 12s007 R2X	R2X	4	103	12	BL	1.8	ST	–	–
	00.9	NSC Jordan RR2Y	R2Y	4	108	5	BL	2.1	ST	–	1c
	00.7	PS 0074 R2	R2Y	4	108	10	BR	1.7	T	–	–
	00.7	LS 007XT	R2X	4	113	5	BL	1.8	ST	–	1c
	00.6	DKB006-29	R2X	5	102	11	BL	1.7	T	–	1k
	00.8	NSC Winkler RR2X	R2X	5	111	5	BL	1.8	ST	yes	1c
	00.9	P00A49X	R2X	5	102	5	BR	1.7	T	yes	1c
	00.5	PV 10s005 RR2	R2Y	5	108	12	BL	1.9	ST	–	–
	00.5	LS Mistral	R2Y	5	107	9	BL	1.7	T	–	1c
	00.6	PRO 2525R2	R2Y	5	103	10	BL	1.7	T	–	–
	00.9	NSC Aubigny RR2X	R2X	6	103	1	BL	1.6	T	yes	1k

continued ➤

MANITOBA Pulse Soybean GROWERS

Manitoba Maturity Zone	Company Maturity Group	Variety	Type	Average DTM +/- Check†	Yield % Check	Site Years Tested	Hilum Colour	IDC Rating (1–5)	IDC Group	Resistance SCN	Resistance PRR
Long-Season Zone	0.1	Hydra R2	R2Y	6	105	5	BL	2.1	ST	–	1k
	00.8	PRO 03X74	R2X	7	112	5	BR	1.7	T	–	1c
	00.8	Astro R2	R2Y	7	113	5	BL	1.7	T	–	1k
	00.9	P00A75X	R2X	7	116	1	IB	1.7	T	–	1k
	00.9	PRO 2535R2	R2Y	8	110	5	BL	1.7	T	–	1k
	00.5	Vidar R2X	R2X	9	102	7	BL	1.7	T	yes	1c
	00.9	TH89009 R2XN	R2X	9	121	1	BL	1.6	T	yes	1k
	00.9	PRO 2625 R2	R2Y	14	112	5	BL	1.7	T	–	–
	Experimental lines that are being tested/proposed for registration in Canada										
	00.6	PV 19-S2	R2X	4	97	1	IB	2.0	ST	yes	1c
CHECK CHARACTERISTICS											
		P007A90R		115 DTM	44 bu/ac	13 site years					

† Maturity ratings were averaged across the Carman, Morris, Portage la Prairie and St. Adolphe core sites over multiple years.

HERBICIDE TOLERANT SOYBEANS ◆ YIELDS BY LOCATION ◆ EASTERN MANITOBA

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	2019 Yield % Check: Early Sites Arborg ‡	2019 Yield % Check: Core Sites Carman
Very Early-Season Zone	000.8	LS TRI8XT	-10	92	81
	000.5	NocomaR2	-9	99	91
	000.9	S0009-M2	-9	101	82
	00.4	TH89004 R2X	-8	101	88
	000.7	PS 00078 XRN	-7	92	94
	00.2	Devo R2X	-6	90	77
	000.9	RX000918	-6	111	95
Early-Season Zone	00.1	P001A48X	-5	105	92
	00.1	PV 11s001 RR2	-5	95	73
	000.7	Karpo R2	-5	103	106
	00.2	RX00218	-5	88	82
	000.2	Notus R2	-5	110	104
	00.3	P003A97X	-5	108	90
	00.1	Torro R2	-5	100	87
	00.2	NSC Redvers RR2X	-4	95	98
	000.9	PV 15s0009 R2X	-4	102	97
	00.4	NSC Culross RR2X	-3	104	92
	00.1	LS 001XT	-3	105	98
	00.5	Lono R2	-3	117	100
Mid-Season Zone	00.3	Dinero R2X	-2	96	87
	00.4	TH 32004R2Y	-2	104	100
	00.1	Prince R2X	-2	94	97
	00.6	S006-M4X	-2	103	101
	00.5	S007-Y4	-2	118	100
	00.5	P005A83X	-1	112	96
	00.5	S006-W5	-1	89	96
	00.3	Mahony R2	-1	92	95
	000.9	Akras R2	-1	130	105
	00.3	B0030L1	-1	94	92
	00.5	P005A27X	-1	103	105
	00.1	Sunna R2X	0	112	94
	00.7	P007A90R	0	100	100
	00.4	Bourke R2X	0	105	100
	00.3	DKB003-29	0	91	97
	00.6	NSC Sperling RR2Y	0	117	104
	00.6	PS 0068 XR	0	–	89
	00.5	Foote R2	0	88	103
	00.3	TH 33003R2Y	1	102	99
	00.3	PS 0044 XRN	1	101	98
	00.5	Gray R2	1	–	102
	00.6	P006A37X	1	109	110
	00.6	Dugaldo R2X	1	–	102
	00.5	TH 33005R2Y	1	92	103

continued ➤

MANITOBA Pulse & Soybean GROWERS

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	2019 Yield % Check: Early Sites Arborg‡	2019 Yield % Check: Core Sites Carman
Mid-Season Zone	00.3	TH 87003 R2X	1	99	94
	00.4	B0040L1	2	92	100
	00.7	P007A08X	2	117	110
	00.5	Barker R2X	2	–	96
	00.4	PV 16s004 R2X	2	100	102
	00.5	DKB005-52	2	95	95
	00.6	DKB006-99	2	80	104
Long-Season Zone	00.8	PV 14s008 RR2	3	–	116
	00.5	LS Eclipse	3	–	105
	00.7	TH 88007R2X	3	–	109
	00.6	B0066L1	3	78	115
	00.7	RX00797	4	99	97
	00.5	TH 88005R2XN	4	–	95
	00.7	PV 12s007 R2X	4	–	106
	00.9	NSC Jordan RR2Y	4	–	108
	00.7	PS 0074 R2	4	–	113
	00.7	LS 007XT	4	–	107
	00.6	DKB006-29	5	83	108
	00.8	NSC Winkler RR2X	5	–	110
	00.9	P00A49X	5	–	112
	00.5	PV 10s005 RR2	5	–	114
	00.5	LS Mistral	5	–	116
	00.6	PRO 2525R2	5	–	99
	00.9	NSC Aubigny RR2X	6	–	103
	0.1	Hydra R2	6	–	108
	00.8	PRO 03X74	7	–	113
	00.8	Astro R2	7	–	116
	00.9	P00A75X	7	–	116
	00.9	PRO 2535R2	8	–	113
	00.5	Vidar R2X	9	–	109
	00.9	TH89009 R2XN	9	–	121
	00.9	PRO 2625 R2	14	–	120
	Experimental lines that are being tested/proposed for registration in Canada				
	00.6	PV 19-S2	4	–	97
CHECK CHARACTERISTICS		P007A90R	115	41	38
			DTM	bu/ac	
			CV %	8.2	6.4
			LSD %	13	10
			Sign. Diff.	yes	yes
			Seeding Date	May 21	May 23
			Harvest Date	Oct 9	Oct 8

† Maturity ratings were averaged across the Carman, Morris, Portage la Prairie and St. Adolphe core sites over multiple years. ‡ Dashes indicate that varieties were not tested at the Arborg site.

HERBICIDE TOLERANT SOYBEANS ◆ VARIETY BY DESCRIPTIONS & YIELDS BY LOCATION ◆ WESTERN MANITOBA

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	Yield % Check	Site Years Tested	IDC Rating (1–5)	IDC Group	Resistance SCN	Resistance PRR	2019 Yield % Check Hamiota	2019 Yield % Check Melita
Very Early-Season Zone	000.5	Amirani R2	-7	87	2	1.9	ST			85	89
	000.7	B00071RX	-6	79	2	1.7	T	–	1k	74	87
	000.6	NSC Leroy RR2Y	-6	83	17	2.2	ST	–	–	79	77
	000.4	Varuna R2	-5	81	2	1.9	ST	–	–	84	77
	000.7	S0007-B7X	-4	89	2	1.7	T	–	1c	84	95
	000.7	CP00719RX	-4	80	2	2.0	ST	–	–	78	81
	000.8	NSC Watson RR2Y	-3	96	22	2.1	ST	–	6	75	94
	000.5	NocomaR2	-3	95	12	2.0	ST	–	1c	88	84
	000.9	S0009-M2	-2	99	22	2.0	ST	–	6	97	96
	Experimental lines that are being tested/proposed for registration in Canada										
	000.5	NSC EXP0005X	-2	86	2	2.0	ST	–	1a	84	88
Early-Season Zone	000.7	Fresco R2X	-1	86	2	2.2	ST	–	1a	88	83
	000.5	TH890005 R2XN	0	85	7	1.8	ST	yes	1c,1k	87	95
	000.7	PS 00078 XRN	0	93	7	1.9	ST	yes	1c	93	88

continued ➤

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	Yield % Check	Site Years Tested	IDC Rating (1–5)	IDC Group	Resistance SCN	Resistance PRR	2019 Yield % Check Hamiota	2019 Yield % Check Melita
Early-Season Zone	00.1	NSC Reston RR2Y	0	100	32	2.4	S	–	1k	100	100
	00.1	PV 11s001 RR2	1	90	12	1.9	ST	–	1c	85	90
	000.5	DKB0005-44	1	92	7	1.9	ST	yes	1c	95	93
	00.1	LS 001E020	2	81	2	1.7	T	–	–	80	82
	00.3	S003-Z4X	2	104	2	1.8	ST	–	1c	101	108
	00.1	Torro R2	2	97	12	2.2	ST	–	–	92	92
	000.7	Karpo R2	2	105	2	2.2	ST	–	–	103	109
	000.2	Notus R2	2	99	16	1.6	T	–	1c	93	106
	000.8	LS TRI8XT	2	93	7	1.9	ST	yes	1c	86	86
	00.4	TH89004 R2X	2	100	2	1.8	ST	–	1c	97	104
	000.9	RX000918	2	95	7	1.7	T	yes	1c	91	99
	00.3	RX Cedo	3	97	7	1.9	ST	–	–	85	90
	00.6	Renuka R2X	3	102	2	1.7	T	–	1c	99	107
	000.9	Fisher R2X	3	89	2	1.8	ST	yes	1k	84	95
	00.3	DKB003-29	3	98	11	1.7	T	yes	–	93	100
	00.1	P001A48X	3	98	2	1.7	T	–	1c	92	105
	00.5	S006-W5	3	104	16	2.5	S	–	1a,3a	93	103
	00.2	Devo R2X	3	89	2	1.8	ST	–	–	92	86
	00.5	P005A83X	3	103	2	1.8	ST	yes	1c	97	110
	00.1	LS 001XT	3	100	7	1.7	T	yes	1k	87	95
	000.9	PV 15s0009 R2X	3	98	6	2.0	ST	yes	1c	88	97
	00.3	McLeod R2	3	104	31	1.8	ST	–	–	91	106
	00.3	P003A97X	4	100	2	1.9	ST	yes	1k	93	109
	00.5	S007-Y4	4	108	26	2.0	ST	–	1c	100	117
	00.3	Dinero R2X	4	89	2	1.7	T	–	–	81	100
	00.4	TH 32004R2Y	4	108	22	1.7	T	–	1c	104	109
	00.3	Mahony R2	4	106	25	2.9	S	–	–	100	111
	00.3	TH 87003 R2X	4	103	13	1.7	T	yes	1c	84	100
	00.1	Sunna R2X	4	100	6	1.7	T	yes	1c	90	102
	00.5	P005A27X	4	104	7	1.8	ST	–	1c	91	108
	00.1	Prince R2X	4	93	6	1.7	T	–	1k	81	112
	Experimental lines that are being tested/proposed for registration in Canada										
	000.9	PV 19-S1	-1	93	2	1.9	ST	–	6	96	87
	00.3	NSC EXP002E	3	78	2	2.0	ST	–	–	77	79
	000.9	SVX0009X95	4	96	2	1.9	ST	–	–	95	98
Mid-Season Zone	00.2	LS Solaire	5	102	16	2.3	S	yes	1c,1k	78	101
	00.3	NSC Newton RR2X	5	89	11	2	ST	–	–	82	91
	00.7	P007A90R `	5	95	2	1.7	T	yes	1c	85	109
	00.3	PS 0044 XRN	5	99	12	1.8	ST	yes	1a,1k	97	102
	000.9	Akras R2	5	107	26	1.7	T	–	1c	102	112
	00.3	B0030L1	5	97	2	1.9	ST	–	–	90	107
	00.2	NSC Redvers RR2X	5	91	6	1.9	ST	yes	1c	86	110
	000.9	DKB0009-89	6	97	7	1.7	T	yes	1c,1k	93	97
	00.6	S006-M4X	6	99	2	1.9	ST	–	1c	98	101
	00.6	P006A37X	6	110	6	1.8	ST	–	1c	94	119
	00.5	Foote R2	6	101	11	1.8	ST	–	1c	91	109
	00.6	RX Acron	6	95	2	1.8	ST	yes	–	89	102
	00.5	Kudo R2X	6	102	2	1.6	T	–	–	98	107
	00.4	Bourke R2X	6	101	2	1.8	ST	–	1k	97	106
	00.4	PV 16s004 R2X	8	100	6	1.9	ST	yes	1k	89	120
	00.4	CP00419RX	8	100	2	1.9	ST	yes	1k	89	115
	00.5	PV 10s005 RR2	9	104	11	1.9	ST	–	–	64	111
	00.4	B0040L1	9	91	2	1.7	T	–	–	81	104
	00.5	CP00519RX	9	93	2	1.8	ST	yes	1k	82	109
	Experimental lines that are being tested/proposed for registration in Canada										
	00.6	PV 19-S2	5	92	2	2.0	ST	yes	1c	79	109
	00.5	EXP005B	6	107	2	2.0	ST	yes	1k	94	125
CHECK CHARACTERISTICS											
		NSC Reston RR2Y	119	51	32					51	38
			DTM	bu/ac	site years					bu/ac	
									CV %	6.4	6.1
									LSD %	9	10
									Sign. Diff.	yes	yes
									Seeding Date	May 16	May 13
									Harvest Date	Oct 17	Sep 25

† Maturity ratings were averaged across the Dauphin, Hamiota and Melita sites over multiple years.

CONVENTIONAL SOYBEANS ◆ VARIETY DESCRIPTIONS

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check	Yield % Check	Site Years Tested	Hilum Colour	IDC Rating (1–5)	IDC Group
Early-Season Zone	00.3	AAC Dale	-3	112	15	Y	2.3	S
	000.9	AAC Halli	-3	101	30	Y	2.1	ST
	000.6	Siberia	-2	112	2	IY	2.0	ST
	Experimental lines that are being tested/proposed for registration in Canada							
	00.2	SVX17T000S1	-9	98	11	IY	2.1	ST
	00.2	OT 16-01	-4	108	15	Y	1.7	T
	00.2	OT18-09	-2	114	2	Y	1.9	ST
Mid-Season Zone	00.3	Maxus	0	99	13	IY	2.1	ST
	00.3	OAC Prudence	0	100	127	Y	1.6	T
	00.5	OAC Morden	4	107	37	Y	2.0	ST
	00.6	AAC Mandor	5	110	37	Y	2.2	ST
	00	Kebek	5	99	8	Y	1.8	ST
	00.8	DH401	6	98	8	IY	2.3	S
	00.9	DH863	6	96	20	IY	2.3	S
	00.8	Meteor	6	101	8	IY	2.3	S
	00.6	Opus	6	104	13	IY	2.2	ST
	Experimental lines that are being tested/proposed for registration in Canada							
	00.5	SVX17T00S15	-1	112	8	IY	2.3	S
	00.2	SVX19T00S1	-1	90	2	IY	2.1	ST
	00.7	SVX17T0S12	1	113	8	IY	1.9	ST
	00	SC10-11.97	2	110	8	Y	2.0	ST
	00.2	PR110196Z012	3	138	1	IY	2.3	S
	00.6	OT 16-06	4	122	13	Y	2.4	S
	00.5	DL 18.3001	4	103	2	BL	2.2	ST
	000.8	PR110187Z017	6	117	1	IY	2.5	S
	00.7	SEMS 14-142	6	132	1	Y	1.9	ST
	00.8	OT 18-01	6	123	7	Y	2.0	ST
	00.9	SVX17T0S15	6	109	2	IY	2.0	ST
	00.7	SEMS 14-640	6	123	1	IY	2.3	S
	000	SVX20T000S2	6	92	2	IY	2.3	S
Long-Season Zone	00.5	Bennie	7	119	1	IY	2.1	ST
	00.9	Jari	7	108	23	IY	2.0	ST
	0.3	Astor	12	119	7	Y	2.0	ST
	0.3	Panorama	14	115	7	Y	1.9	ST
	Experimental lines that are being tested/proposed for registration in Canada							
	00	PR110212Z046	7	126	1	IY	2.1	S
	00	SC10-13.70	8	113	1	Y	2.0	ST
	00.9	OT 18-14	8	136	7	Y	2.0	ST
	0.1	SVX17T00S23	8	144	1	IY	2.0	ST
	00.8	OT 18-12	8	124	7	Y	2.2	ST
	00	SC11-70.B33	9	95	2	IY	2.3	S
	00	SVX19T00S3	9	86	2	IY	2.1	ST
	0.4	DL18.3005	10	156	1	BF	2.3	S
	0.3	DL18.3004	11	134	1	CL	2.3	S
	00.8	OT19-01	12	153	1	Y	2.0	ST
	0.1	SVX20T0S11	17	121	1	IY	1.7	T
CHECK CHARACTERISTICS								
		OAC Prudence	115 DTM	48 bu/ac	127 site years			

† Maturity ratings were averaged across the Carman, Morris and St. Adolphe core sites over multiple years.

CONVENTIONAL SOYBEANS ◆ YIELDS BY LOCATION ◆ EASTERN MANITOBA

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	2019 Yield % Check: Early Sites Arborg‡	2019 Yield % Check: Core Sites Carman
Early-Season Zone	00.3	AAC Dale	-3	109	115
	000.9	AAC Halli	-3	103	97
	000.6	Siberia	-2	113	110
	Experimental lines that are being tested/proposed for registration in Canada				
	00.2	SVX17T000S1	-9	111	104
	00.2	OT 16-01	-4	98	116
	00.2	OT18-09	-2	109	119
Mid-Season Zone	00.3	Maxus	0	–	117
	00.3	OAC Prudence	0	100	100
	00.5	OAC Morden	4	–	128
	00.6	AAC Mandor	5	131	120
	00	Kebek	5	83	115

continued ➤

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	2019 Yield % Check: Early Sites Arborg‡	2019 Yield % Check: Core Sites Carman
Mid-Season Zone	00.8	DH401	6	76	119
	00.9	DH863	6	–	114
	00.8	Meteor	6	95	109
	00.6	Opus	6	–	107
	Experimental lines that are being tested/proposed for registration in Canada				
	00.5	SVX17T00S15	-1	100	109
	00.2	SVX19T00S1	-1	80	102
	00.7	SVX17T0S12	1	98	116
	00	SC10-11.97	2	92	119
	00.2	PR110196Z012	3	–	138
	00.6	OT 16-06	4	–	125
	00.5	DL 18.3001	4	106	100
	000.8	PR110187Z017	6	–	117
	00.7	SEMS 14-142	6	–	132
	00.8	OT 18-01	6	–	127
	00.9	SVX17T0S15	6	92	130
	00.7	SEMS 14-640	6	–	123
	000	SVX20T000S2	6	87	98
Long-Season Zone	00.5	Bennie	7	–	119
	00.9	Jari	7	–	120
	0.3	Astor	12	–	139
	0.3	Panorama	14	–	127
	Experimental lines that are being tested/proposed for registration in Canada				
	00	PR110212Z046	7	–	126
	00	SC10-13.70	8	–	113
	00.9	OT 18-14	8	–	144
	0.1	SVX17T00S23	8	–	144
	00.8	OT 18-12	8	–	140
	00	SC11-70.B33	9	83	110
	00	SVX19T00S3	9	54	125
	0.4	DL18.3005	10	–	156
	0.3	DL18.3004	11	–	134
	00.8	OT19-01	12	–	153
	0.1	SVX20T0S11	17	–	121
CHECK CHARACTERISTICS					
		OAC Prudence	115	29	36
			DTM	bu/ac	
			CV %	11.4	7.5
			LSD %	18	15
			Sign. Diff.	yes	yes
			Seeding Date	May 21	May 23
			Harvest Date	Oct 8	Oct 8

† Maturity ratings were averaged across the Carman, Morris and St. Adolphe core sites over multiple years. ‡ Dashes indicate that varieties were not tested at the Arborg site.

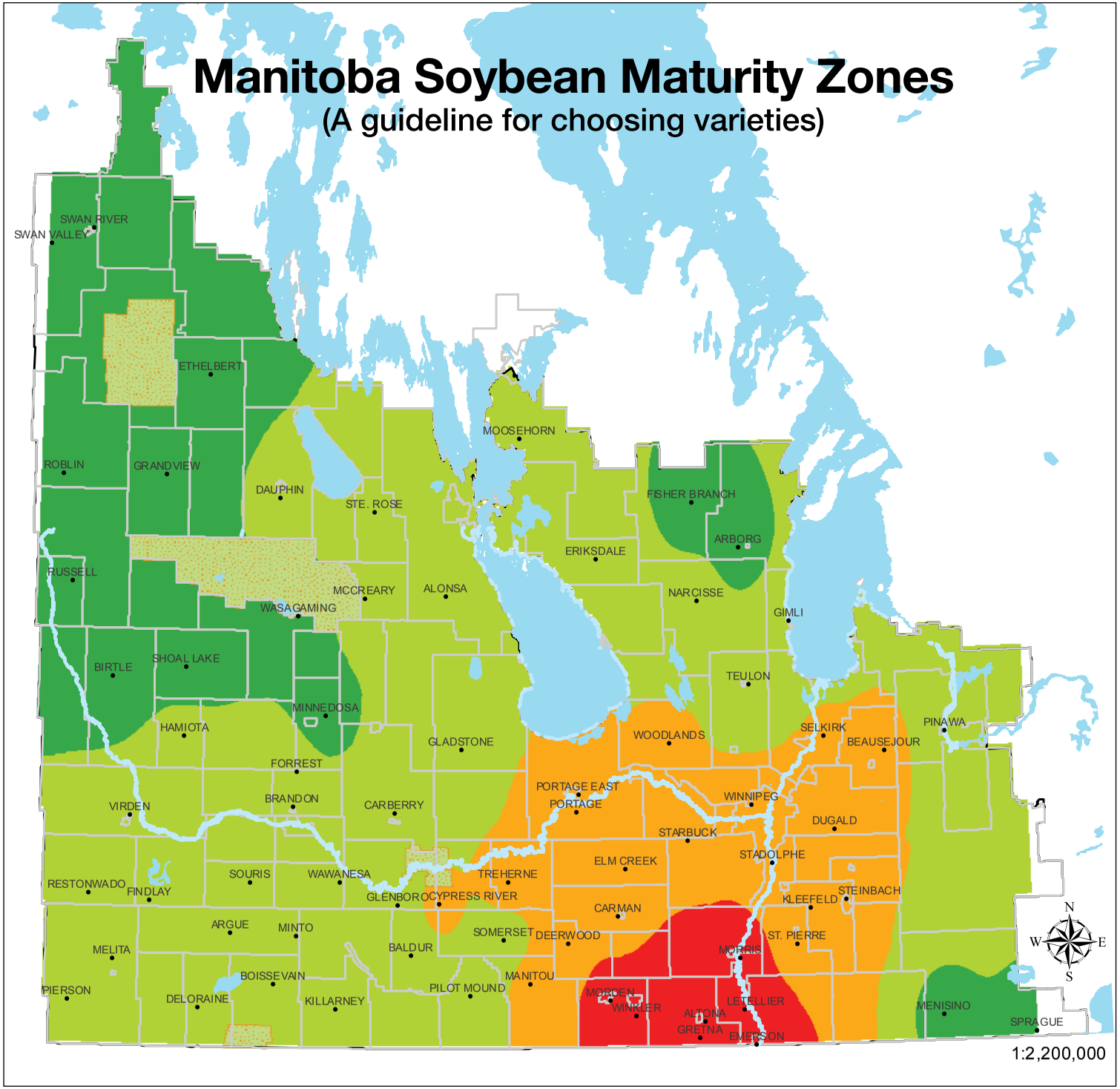
CONVENTIONAL SOYBEANS ◆ YIELDS BY LOCATION ◆ WESTERN MANITOBA

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	Yield % Check	Site Years Tested	Hilum Colour	2019 Yield % Check: Melita	2019 Yield % Check: Swan River
Early-Season Zone	00.4	AAC Edward	-6	89	2	IY	98	79
	000.9	AAC Halli	-2	93	2	Y	94	91
	00.3	OAC Prudence	0	100	7	Y	100	100
	00.3	AAC Dale	0	106	2	Y	100	112
	000.6	Siberia	0	98	2	IY	102	94
Mid-Season Zone	00.3	Maxus	2	92	4	Y	98	84
	Experimental lines that are being tested/proposed for registration in Canada							
	000.8	PR110187Z017	3	105	2	IY	111	98
	00	PR110212Z046	6‡	104	2	IY	109	98
CHECK CHARACTERISTICS								
		OAC Prudence	118	36	7		39	31
			DTM	bu/ac	site years		bu/ac	
						CV %	5.1	8.2
						LSD %	9	14
						Sign. Diff.	yes	yes
						Seeding Date	May 13	May 24
						Harvest Date	Sep 25	Oct 11

† Maturity ratings were averaged across the Melita and Swan River sites over multiple years. ‡ Did not reach full maturity in Swan River.

Manitoba Soybean Maturity Zones

(A guideline for choosing varieties)



Map Elements

- Water Bodies
- Rural Municipalities
- Prov/Nat. Parks

Maturity Zones

- Very Early
- Early
- Mid
- Long

Maturity Zone	CHU	FFP (days)	Maturity Group
V. Early	<2250	<110	<00.2
Early	2250–2400	110–118	00.2–00.3
Mid	2401–2550	119–125	00.4–00.6
Long	>2550	>125	>00.6

This map is based on 1981–2010 Climate Normal Data for cumulative Corn Heat Units (CHU, May 15 – Sept 20) and average frost-free period (FFP, days Tmin > 0°C).

The map outlines the longest maturity suggested for each production area, but earlier varieties can also perform well. Use in conjunction with the *Soybean Variety Guide*, which outlines varieties according to maturity zones.

For more information contact:
Dennis.Lange@gov.mb.ca