MANITOBA Pulse Soybean GROWERS

This publication features the results from MPSG-sponsored trials.

KEY FOR SOYBEAN VARIETY TABLES

Manitoba Maturity 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 (back page), 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

E3 = Enlist E3® soybeans with 2,4-D choline, glyphosate and glufosinate herbicide tolerance.

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 (DTM) for the check variety is found in the shaded area at the bottom of the table. Average DTM is calculated from multiple site-years. It is important to use long-term data for variety selection, as maturity can vary by year.

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).

IDC Rating and Group – The iron deficiency chlorosis (IDC) rating is the severity of IDC expressed in a given variety on a 1–5 scale. The IDC group indicates the overall level of tolerance. Each year, ratings are conducted during the V2 to V3 stages at a site near Winnipeg that is prone to IDC. If a field is at moderate to high risk of IDC (Table 1), select a variety with a low (tolerant) rating.

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

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 Groups

T = tolerant ST = semi-tolerant S = susceptible

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.

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

CV % – The coefficient of variation (CV) is the statistical measure of random variation in a research trial. A CV of less than 15% generally indicates a more uniform trial and conclusive data.

LSD % – The least significant difference (LSD) is the quantity by which two varieties must differ to conclude with 95% confidence that a true difference exists due to genetics.

Sign. Diff. – The indication of whether significant differences were found between varieties. Yes = at least one variety is significantly different from another within one site. No = varieties are not significantly different within one site.


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		Resistance	
								Rating (1–5)	Group	SCN	PRR
Very Early-Season Zone	000.8	NSC Dauphin RR2X	R2X	-15	80	6	IY	2.1	ST	–	1c
	000.5	BY Rundle XT	R2X	-15	74	6	BR	1.9	ST	yes	1c, 3a
	000.7	Fresco R2X	R2X	-13	75	12	BL	2.0	ST	–	–
	00.1	S001-D8X	R2X	-9	88	12	IY	1.9	ST	–	1c
	00.3	SI 00319XT	R2X	-8	87	6	IY	2.0	ST	–	1c
	00.3	P003A97X	R2X	-8	96	11	GR	1.8	ST	yes	1k
	000.9	SI 000919XT	R2X	-7	88	12	BL	1.7	T	–	–
	00.1	P001A48X	R2X	-7	92	17	TN	1.8	ST	–	1c
	00.3	003-R5X	R2X	-6	99	6	IY	1.9	ST	–	1c
	00.2	Komodo R2	R2Y	-6	102	11	BL	2.2	ST	yes	1c
	00.5	P005A83X	R2X	-6	96	17	BL	1.7	T	yes	1c
	00.2	TH89004 R2X	R2X	-6	87	17	BR	1.9	ST	–	1c
	00.1	B0012RX	R2X	-6	96	6	BR	1.7	T	–	1k, 6
	Experimental lines that are being tested/proposed for registration in Canada										
	000	SV175101Z-02-07-07	E3	-13	74	6	BL	1.9	ST	–	–
Early-Season Zone	00.1	SI 001XTN	R2X	-5	99	23	BL	1.7	T	yes	1k
	00.2	NSC Redvers RR2X	R2X	-5	92	17	BL	1.9	ST	yes	1c
	00.3	Akras R2	R2Y	-4	102	27	BL	1.8	ST	–	1c
	000.9	Young R2X	R2X	-4	97	6	BL	1.7	T	yes	1c
	00.3	S003-Z4X	R2X	-4	97	12	BF	1.9	ST	–	1c
	00.4	B0041RX	R2X	-4	101	6	GR	1.7	T	–	1k
	00.2	PV 22s002 R2X	R2X	-4	100	6	BL	1.7	T	–	–
	00.5	S005-C9X	R2X	-3	94	12	BL	2.3	S	–	1c
	00.4	Mikado R2X	R2X	-3	96	6	BL	1.9	ST	yes	1c
	000.8	DKB0008-87	R2X	-3	101	6	BL	1.8	ST	yes	1c, 1k
	00.6	RX Acron	R2X	-3	100	14	BL	1.8	ST	yes	–
	00.5	Hart R2X	R2Y	-3	97	6	BR	1.9	ST	–	1c
	00.6	CP00621X	R2X	-3	101	4	BR	1.7	T	yes	1c, 3a
	00.4	Bourke R2X	R2X	-2	102	23	BL	1.8	ST	–	1k
	00.4	NSC Holland RR2X	R2X	-2	109	6	BR	1.8	ST	–	1c
	00.3	Merritt R2X	R2X	-2	99	12	BL	1.8	ST	yes	1c, 1k
	00.3	Sunna R2X	R2X	-2	103	23	GR	1.7	T	yes	1c
	00.2	DKB002-32	R2X	-2	98	12	BR	1.8	ST	yes	1k
	00.6	PS 0068 XR	R2X	-2	98	16	BL	1.8	ST	–	1c
	00.6	P006A37X	R2X	-2	108	23	BR	1.8	ST	–	1c
	Experimental lines that are being tested/proposed for registration in Canada										
	000.9	PV 15S0009R2X	R2X	-5	97	17	BL	1.8	ST	–	–
	00	SV185067-06-03	E3	-4	89	6	BR	2.0	ST	–	–
	00	SV185067-06-04	E3	-1	92	6	BR	1.9	ST	–	–
Mid-Season Zone	00.6	NSC Sperling RR2Y	R2Y	-1	105	21	IY	1.8	ST	–	1a, 3a
	00.1	Barker R2X	R2X	-1	99	21	BL	1.8	ST	yes	1k
	00.6	NSC Cartier RR2X	R2X	-1	96	10	BL	1.8	ST	–	3a
	00.4	PV 16s004 R2X	R2X	-1	100	23	BL	1.8	ST	yes	1k
	00.3	TH 87003 R2X	R2X	-1	96	27	BL	1.8	ST	yes	1c
	00.5	B0051RX	R2X	-1	99	6	BR	1.8	ST	–	1c
	00.5	DKB005-52	R2X	0	100	28	BL	1.8	ST	yes	1c
	00.6	SI 00620XTN	R2X	1	103	6	BL	1.7	T	yes	1c
	00.5	Kudo R2X	R2X	1	100	8	BL	1.7	T	–	–
	00.5	TH82005 R2X	R2X	1	104	6	BR	1.8	ST	–	1k
	00.7	PS 0074 R2	R2Y	1	104	21	BR	1.7	T	–	–
	00.8	DKB008-48	R2X	1	112	6	BL	1.8	ST	yes	1c, 1k
	00.6	Mao R2X	R2X	2	106	4	BL	1.7	T	yes	1c
	00.7	Elmo E3	E3	2	100	8	BR	1.8	ST	yes	–
	00.7	S007-A2XS	R2X	2	105	12	GR	1.8	ST	–	–
	00.9	P00A49X	R2X	2	103	16	BR	1.7	T	yes	1c
	00.7	SI 007XTN	R2X	2	105	20	BL	1.8	ST	yes	1c
Long-Season Zone	00.8	NSC Winkler RR2X	R2X	3	103	16	BL	1.8	ST	yes	1c
	00.9	TH89009 R2XN	R2X	5	105	12	BL	1.7	T	yes	1k
	00.7	TH81007 R2XN	R2X	5	106	4	BR	1.7	T	yes	1c
CHECK CHARACTERISTICS		DKB005-52		119 DTM	43 bu/ac	28 site-years					

† Maturity ratings were averaged across the core sites over multiple years.

HERBICIDE TOLERANT SOYBEANS ◆ YIELDS BY LOCATION ◆ EASTERN MANITOBA

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	2021 Yield % Check					
			Early Sites‡		Core Sites			
			Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe
Very Early-Season Zone	NSC Dauphin RR2X	-15	85	91	73	80	79	78
	BY Rundle XT	-15	69	89	74	81	70	67
	Fresco R2X	-13	75	81	77	73	95	66
	S001-D8X	-9	80	123	91	80	97	94
	SI 00319XT	-8	84	107	92	79	88	87
	P003A97X	-8	101	107	93	95	102	86
	SI 000919XT	-7	113	112	97	90	81	93
	P001A48X	-7	98	116	84	81	110	83
	003-R5X	-6	106	94	98	92	108	92
	Komodo R2	-6	101	127	98	91	97	98
	P005A83X	-6	86	111	102	94	109	95
	TH89004 R2X	-6	97	106	92	82	88	96
	B0012RX	-6	101	98	88	103	89	90
	Experimental lines that are being tested/proposed for registration in Canada							
	SV175101Z-02-07-07	-13	80	123	80	56	78	45
Early-Season Zone	SI 001XTN	-5	92	101	105	83	93	98
	NSC Redvers RR2X	-5	110	97	98	89	90	90
	Akras R2	-4	122	129	105	93	114	100
	Young R2X	-4	92	105	107	88	93	106
	S003-Z4X	-4	103	107	102	97	102	91
	B0041RX	-4	113	112	96	96	100	92
	PV 22s002 R2X	-4	102	114	103	90	99	107
	S005-C9X	-3	103	118	88	96	93	85
	Mikado R2X	-3	98	109	91	87	103	104
	DKB0008-87	-3	103	117	100	102	91	100
	RX Acron	-3	111	116	99	81	102	102
	Hart R2X	-3	97	126	92	95	102	89
	CP00621X	-3	–	–	100	103	107	87
	Bourke R2X	-2	109	119	106	92	102	102
	NSC Holland RR2X	-2	125	127	112	89	106	99
	Merritt R2X	-2	108	100	109	96	107	98
	Sunna R2X	-2	112	99	109	97	110	96
	DKB002-32	-2	107	116	101	94	107	102
	PS 0068 XR	-2	–	–	97	88	100	96
	P006A37X	-2	119	118	116	95	99	104
	Experimental lines that are being tested/proposed for registration in Canada							
	PV 15s0009R2X	-5	106	113	94	83	83	94
	SV185067-06-03	-4	91	112	86	84	91	87
	SV185067-06-04	-1	97	112	88	84	94	92
Mid-Season Zone	NSC Sperling RR2Y	-1	–	–	102	104	107	102
	Barker R2X	-1	–	–	109	91	109	99
	NSC Cartier RR2X	-1	–	–	96	94	98	97
	PV 16s004R2X	-1	107	105	110	94	93	102
	TH 87003 R2X	-1	108	103	111	91	101	98
	B0051RX	-1	103	106	93	103	95	94
	DKB005-52	0	100	100	100	100	100	100
	SI 00620XTN	1	105	115	106	94	100	111
	SI 007XTN	1	108	109	112	106	121	109
	Kudo R2X	1	–	–	116	95	116	116
	TH82005 R2X	1	99	115	104	97	114	115
	PS 0074 R2	1	–	–	115	100	125	98
	DKB008-48	2	110	134	121	102	105	121
	Mao R2X	2	–	–	119	101	94	104
	Elmo E3	2	–	–	109	101	115	102
	S007-A2XS	2	124	144	114	96	98	111
	P00A49X	2	–	–	110	101	117	119
Long-Season Zone	NSC Winkler RR2X	3	–	–	109	103	104	118
	TH89009 R2XN	5	–	–	113	101	127	117
	TH81007 R2XN	5	–	–	109	108	98	109
CHECK CHARACTERISTICS								
	DKB005-52	119	55	14	56	54	36	21
		DTM	bu/ac					
		CV %	6.8	8.7	6.2	5.4	8.7	7.1
		LSD %	11	16	10	8	14	11
		Sign. Diff.	yes	yes	yes	yes	yes	yes
		Seeding Date	May 17	May 25	May 19	May 18	May 28	May 14
		Harvest Date	Sep 24	Sep 25	Sep 29	Sep 30	Oct 5	Sep 22

† Maturity ratings were averaged across the core sites over multiple years. ‡ Dashes indicate that varieties were not tested at the early sites.

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	2021 Yield % Check Dauphin	Hamiota	Holland	Melita	Souris	Swan River‡
Very Early-Season Zone	000.3	DKB0003-24	-13	86	6	1.9	ST	yes	1c, 1k	97	69	86	83	90	84
	000.6	Buffalo R2	-11	85	8	1.9	ST	–	–	94	82	83	81	92	81
	000.5	BY Rundle XT	-11	92	6	1.9	ST	yes	1c, 3a	105	62	105	93	96	92
	000.8	NSC Dauphin RR2X	-10	88	6	2.1	ST	–	1c	95	70	90	87	90	92
	000.5	Amirani R2	-9	88	13	1.8	ST	–	1k	93	75	88	75	90	81
	00.1	NSC EXP001PX	-8	85	5	1.7	T	–	1c	95	79	82	82	81	–
	000.7	Fresco R2X	-8	92	13	2.0	ST	–	–	107	73	90	79	97	89
	000.7	NSC EXP0007X	-8	83	6	1.9	ST	–	1a	95	72	85	78	81	81
	000.9	S0009-F2X	-7	95	27	1.8	ST	–	1c	102	89	98	94	94	104
	00.1	NSC EXP001LX	-6	96	5	1.8	ST	–	1c, 3a	104	94	100	87	93	–
	000.5	DKB0005-44	-6	93	18	1.9	ST	yes	1c	107	87	90	89	101	90
	000.5	CP000521X	-6	90	6	1.8	ST	–	1c	96	82	78	87	92	94
Early-Season Zone	00.1	S001-D8X	-4	103	11	1.9	ST	–	1c	106	88	95	88	95	110
	00.2	Komodo R2	-4	99	8	2.2	ST	yes	1c	101	90	98	89	97	115
	00.1	B0012RX	-4	103	6	1.7	T	–	1k, 6	102	96	94	96	105	119
	00.3	003-R5X	-4	105	6	1.9	ST	–	1c	110	95	104	106	103	109
	00.1	P001A48X	-3	100	13	1.8	ST	–	1c	104	86	100	88	103	106
	00.2	TH89004 R2X	-2	98	13	1.9	ST	–	1c	100	89	92	82	96	105
	000.9	Young R2X	-2	101	6	1.7	T	yes	1c	111	100	83	87	104	104
	000.9	SI 000919XT	-2	97	11	1.7	T	–	–	100	90	90	84	97	96
	000.9	PV 15s0009 R2X	-2	98	17	1.8	ST	yes	1c	107	91	84	87	100	99
	00.3	P003A97X	-2	100	13	1.8	ST	yes	1k	114	101	103	102	104	105
	00.3	S003-Z4X	-2	104	13	1.9	ST	–	1c	105	94	108	85	102	112
	000.9	DKB0009-89	-2	98	18	1.8	ST	yes	1c, 1k	107	91	87	90	101	92
	00.1	SI 001XTN	-2	99	18	1.7	T	yes	1k	108	95	92	96	105	108
	00.2	NSC Redvers RR2X	-1	97	15	1.9	ST	yes	1c	100	87	98	97	99	–
	000.8	DKB0008-87	-1	101	6	1.8	ST	yes	1c, 1k	108	94	94	97	105	101
	00.5	P005A83X	-1	107	13	1.7	T	yes	1c	122	99	106	93	108	104
	00.3	Mahony R2	-1	101	35	2.5	S	–	–	106	92	104	92	103	108
	00.5	Hart R2X	0	101	6	1.9	ST	–	1c	107	95	83	97	103	109
	00.4	Mikado R2X	0	98	5	1.9	ST	yes	1c	102	91	99	95	99	–
	00.3	Akras R2	0	100	37	1.7	T	–	1c	100	100	100	100	100	100
	00.5	S005-C9X	0	107	9	2.3	S	–	1c	111	95	104	102	102	–
	00.3	TH 87003 R2X	0	96	23	1.8	ST	yes	1c	114	96	88	84	105	–
Mid-Season Zone	00.3	Sunna R2X	1	101	16	1.7	T	yes	1c	108	89	101	88	98	106
	00.4	B0041RX	1	105	5	1.7	T	–	1k	107	107	100	99	106	–
	00.5	P005A27X	1	101	18	1.8	ST	–	1c	113	93	104	85	107	106
	00.6	P006A37X	1	107	17	1.8	ST	–	1c	112	99	98	100	105	116
	00.4	Bourke R2X	1	103	11	1.8	ST	–	1k	108	101	98	90	104	–
	00.2	PV 22s002 R2X	1	103	6	1.7	T	–	–	112	96	88	95	109	102
	00.6	PS 0068 XR	2	105	9	1.8	ST	–	1c	109	96	103	91	100	–
	00.4	PV 16s004 R2X	2	100	15	1.8	ST	yes	1k	107	105	96	96	106	–
	00.7	TH82005 R2X	3	110	5	1.8	ST	–	–	114	96	104	99	122	–
	00.5	Kudo R2X	3	105	11	1.7	T	–	–	110	106	111	97	107	–
CHECK CHARACTERISTICS		Akras R2	123 DTM	55 bu/ac	37 site-years					75	57	38	30	77	63
												bu/ac			
									CV %	4.4	4.3	8.3	7.5	4.6	7.1
									LSD %	8	6	13	11	7	12
									Sign. Diff.	yes	yes	yes	yes	yes	yes
									Seeding Date	May 17	May 18	May 12	May 17	May 15	May 17
									Harvest Date	Sep 28	Oct 4	Sep 21	Sep 15	Sep 27	Sep 30

† Maturity ratings were averaged across the western sites over multiple years.

‡ Dashes indicate that varieties were not tested at the Swan River site.

HERBICIDE TOLERANT SOYBEANS ◆ YIELDS BY LOCATION ◆ EASTERN FIRST YEAR ENTRIES

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	IDC Rating	IDC Group	2021 Yield % Check Carman	Morris	St. Adolphe
Very Early-Season Zone	SI 000921E3	-10	1.9	ST	75	69	79
	NSC EXP001LX	-7	1.8	ST	83	73	97
	Pikas R2X	-7	1.6	T	82	79	80
	Gecko R2X	-6	1.7	T	88	72	85
	Experimental lines that are being tested/proposed for registration in Canada						
	EXP000820XRN	-6	1.7	T	98	90	91
	SC21-2225R2X	-6	2.0	ST	91	81	96
Early-Season Zone	PV 24s0008R2X	-5	1.6	T	90	89	95
	SI 00221XTN	-5	2.0	ST	91	89	101
	SI 00321XT	-2	1.8	ST	103	79	104
	Merino R2X	-1	1.7	T	108	92	125
	NSC EXP001PX	-1	1.7	T	90	92	100
	Experimental lines that are being tested/proposed for registration in Canada						
	PV EXP 21-S3	-4	1.8	ST	92	83	92
	SVX00421XTN	-2	1.8	ST	105	90	115
Mid-Season Zone	DKB005-52	0	1.8	ST	100	100	100
	PV 26s007R2X	0	1.9	ST	91	86	109
	TH82006 R2X	0	1.9	ST	101	93	105
	Mako R2X	0	1.8	ST	109	96	100
	Badger R2X	1	1.7	T	108	99	123
	PV 25s005R2X	1	1.7	T	103	98	114
	Experimental lines that are being tested/proposed for registration in Canada						
	PR150102Z-18	0	1.7	T	103	93	111
Long-Season Zone	DKB006-21	3	1.7	T	113	110	116
	Triquet R2X	5	1.7	T	112	96	119
	Experimental lines that are being tested/proposed for registration in Canada						
	PR161100Z-04	2	1.7	T	97	95	96
CHECK CHARACTERISTICS							
	DKB005-52	120 DTM			57	52	20
						bu/ac	
				CV %	7.6	3.1	6
				LSD %	12	5	10
				Sign. Diff.	yes	yes	yes
				Seeding Date	May 19	May 18	May 14
				Harvest Date	Sep 29	Sep 30	Sep 22

† Maturity ratings were averaged across the Carman, Morris and St. Adolphe sites.

HERBICIDE TOLERANT SOYBEANS ◆ YIELDS BY LOCATION ◆ WESTERN FIRST YEAR ENTRIES

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	IDC Rating	IDC Group	2021 Yield % Check Hamiota	Melita	Souris
Very Early-Season Zone	Mynarski R2X	-9	2.0	ST	72	80	87
	DKB0005-03	-9	1.7	T	81	89	100
	Pikas R2X	-7	1.6	T	87	94	96
	Wolf R2X	-7	1.9	ST	83	104	94
	SI 00319XT	-6	2.0	ST	88	90	90
	PV 24s0008R2X	-5	1.6	ST	91	94	102
	Experimental lines that are being tested/proposed for registration in Canada						
	PR160520Z-04	-14	1.9	ST	67	88	83
	PR160298Z-06	-13	1.9	ST	53	90	86
	PV EXP 21-S1	-12	1.7	ST	78	95	102
	SVX000921E3	-10	1.9	ST	79	86	92
	PR160542Z-03	-9	1.8	ST	78	95	86
	SV175069Z-01-06-11	-9	1.8	ST	84	79	91
	EXP000820XRN	-6	1.7	T	89	102	103

continued ➤

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	IDC Rating	IDC Group	2021 Yield % Check Hamiota	2021 Yield % Check Melita	2021 Yield % Check Souris
Early-Season Zone	SI 00221XTN	-4	2.0	ST	104	106	102
	Major R2X	-3	2.1	ST	81	106	96
	Dextro R2X	-1	1.8	ST	97	92	98
	PV 26s007R2X	-1	1.9	ST	100	113	99
	SI 00321XT	-1	1.8	ST	100	103	107
	Akras R2	0	1.8	ST	100	100	100
	PV 25s005R2X	1	1.7	ST	97	114	112
	Experimental lines that are being tested/proposed for registration in Canada						
	PV EXP 21-S3	-4	1.8	ST	99	93	103
CHECK CHARACTERISTICS							
	Akras R2	120 DTM			53	26	81
						bu/ac	
				CV %	5.3	7.7	3.9
				LSD %	7	12	6
				Sign. Diff	yes	yes	yes
				Seeding Date	May 18	May 17	May 15
				Harvest Date	Oct 4	Sep 14	Sep 27

† Maturity ratings were averaged across the Hamiota, Melita and Souris sites.

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	000.8	Norfolk	-7	91	24	IY	2.3	S
	000.7	Fjord	-4	92	16	IY	2.0	ST
	000.9	AAC Halli*	-3	100	43	Y	2.0	ST
	00.2	Siberia	-2	104	15	IY	1.8	ST
	Experimental lines that are being tested/proposed for registration in Canada							
	00	OT20-01	-4	92	2	Y	1.7	T
	000	SVX22T000S32	-3	105	4	IY	1.8	ST
Mid-Season Zone	00.3	OAC Prudence	0	100	140	Y	1.6	T
	00.3	Reynolds	3	107	21	IY	2.3	S
	00.4	Liska	4	115	10	Y	2.3	S
	00.7	Primo	5	99	10	IY	1.9	ST
	00.6	Kebek	6	102	21	Y	1.8	ST
	00.8	Baffin	6	107	10	IY	2.0	ST
	Experimental lines that are being tested/proposed for registration in Canada							
	000	SVX21T000S1	0	105	10	IY	2.1	ST
	00.3	CM-6	2	97	4	Y	1.8	ST
	00	OT20-02	2	109	2	Y	1.9	ST
	00.2	PR130933Z-05	2	102	2	IY	1.8	ST
	00	SVX21T00S2	2	107	10	IY	1.7	T
	00	OT20-03	2	106	2	Y	1.8	ST
	00.6	PR130077Z-28	3	103	4	IY	2.0	ST
	000	SVX22T000S33	3	110	4	IY	2.0	ST
	00	OT20-06	4	113	2	Y	1.8	ST
	00.6	CLS13-005.008	6	110	2	IY	2.1	ST
	00.5	CRGS 18.1	6	113	2	IY	1.9	ST
Long-Season Zone	00.7	Abaca	7	127	5	IY	1.8	ST
	00.8	Meteor	7	101	21	IY	2.4	S
	00.7	Mozart	8	109	2	Y	1.9	ST
	00.8	Aurelina	8	119	5	IY	1.8	ST
	00.7	Jago	9	111	10	Y	2.1	ST

continued ➤

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	Yield % Check	Site-Years Tested	Hilum Colour	IDC Rating (1–5)	IDC Group
Long-Season Zone	00.7	Maya*	10	101	5	Y	1.7	T
	00	Stanley	11	116	8	IY	2.1	ST
	00.9	Hana	12	117	2	Y	1.9	ST
	0.3	Astor	13	114	14	Y	1.9	ST
	Experimental lines that are being tested/proposed for registration in Canada							
	00.5	CRGS 17.1	7	111	2	Y	2.3	S
	000	SVX22T000S34	7	119	4	IY	1.9	ST
	00.7	CLS13-005.001	8	112	2	IY	2.1	ST
	00.9	OT18-01	8	120	11	Y	1.9	ST
	00.5	CRGS 16.1	8	108	2	Y	1.9	ST
	00.7	CLS13-005.014	9	125	2	IY	2.2	ST
	00.9	PR130312Z-10-04	10	105	2	IY	2.0	ST
	00	SVX22T00S35	10	115	4	IY	2.0	ST
	00.9	DL18.3004	12	119	8	Y	2.0	ST
	00.7	DL21-3007	12	119	2	Y	2.0	ST
	00.8	DL21-3010	13	121	2	Y	2.0	ST
	00.9	CLS13-005.021	13	122	2	IY	1.9	ST
CHECK CHARACTERISTICS		OAC Prudence	114 DTM	47 bu/ac	140 site-years			

This long-term data is based on results from eastern Manitoba locations. † Maturity ratings were averaged across the core sites over multiple years.

* Indicates a variety that is protected by, or has been applied for and pending, Plant Breeder's Rights legislation that complies with UPOV 1991.

CONVENTIONAL SOYBEANS ◆ YIELDS BY LOCATION ◆ EASTERN MANITOBA

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	2021 Yield % Check: Early Sites‡ Beausejour	Early Sites‡ Stonewall	Core Sites Morris	Core Sites Portage
Early-Season Zone	Norfolk	-7	68	67	84	75
	Fjord	-4	82	89	91	70
	AAC Halli*	-3	98	87	104	83
	Siberia	-2	84	92	88	91
	Experimental lines that are being tested/proposed for registration in Canada					
	OT20-01	-4	–	–	92	92
	SVX22T000S32	-3	101	111	104	109
Mid-Season Zone	OAC Prudence	0	100	100	100	100
	Reynolds	3	106	113	104	100
	Liska	4	109	115	105	117
	Primo	5	100	106	91	91
	Kebek	6	103	121	119	100
	Baffin	6	107	96	123	106
	Experimental lines that are being tested/proposed for registration in Canada					
	SVX21T000S1	0	100	95	90	94
	CM-6	2	94	97	94	104
	OT20-02	2	–	–	111	106
	PR130933Z-05	2	–	–	106	96
	SVX21T00S2	2	110	108	100	96
	OT20-03	2	–	–	107	104
	PR130077Z-28	3	99	94	115	103
	SVX22T000S33	3	109	112	113	106
	OT20-06	4	–	–	117	108
	CLS13-005.008	6	–	–	115	104
	CRGS 18.1	6	–	–	112	113

continued ➤

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	2021 Yield % Check			
			Early Sites‡		Core Sites	
			Beausejour	Stonewall	Morris	Portage
Long-Season Zone	Abaca	7	–	–	127	123
	Meteor	7	107	108	94	107
	Mozart	8	–	–	108	110
	Aurelina	8	–	–	133	116
	Jago	9	109	122	115	108
	Maya*	10	–	–	107	99
	Stanley	11	–	–	128	123
	Hana	12	–	–	130	104
	Astor	13	–	–	121	104
	Experimental lines that are being tested/proposed for registration in Canada					
	CRGS 17.1	7	–	–	113	110
	SVX22T000S34	7	118	128	124	112
	CLS13-005.001	8	–	–	113	110
	OT18-01	8	–	–	115	108
	CRGS 16.1	8	–	–	120	96
	CLS13-005.014	9	–	–	131	118
	PR130312Z-10-04	10	–	–	110	100
	SVX22T00S35	10	110	94	134	115
	DL21-3009	11	–	–	122	107
	DL18.3004	12	–	–	136	120
	DL21-3007	12	–	–	121	118
	DL21-3010	13	–	–	123	119
	CLS13-005.021	13	–	–	133	111
CHECK CHARACTERISTICS						
	OAC Prudence	114	48	20	38	35
		DTM	bu/ac			
		CV %	5.2	8.5	9.0	9.7
		LSD %	9	15	17	17
		Sign. Diff.	yes	yes	yes	yes
		Seeding Date	May 17	May 25	May 18	May 28
		Harvest Date	Sep 27	Oct 1	Sep 30	Oct 5

† Maturity ratings were averaged across the core sites over multiple years. ‡ Dashes indicate that varieties were not tested at the early sites.

* Indicates a variety that is protected by, or has been applied for and pending, Plant Breeder's Rights legislation that complies with UPOV 1991.

CONVENTIONAL SOYBEANS ◆ YIELDS BY LOCATION ◆ WESTERN MANITOBA

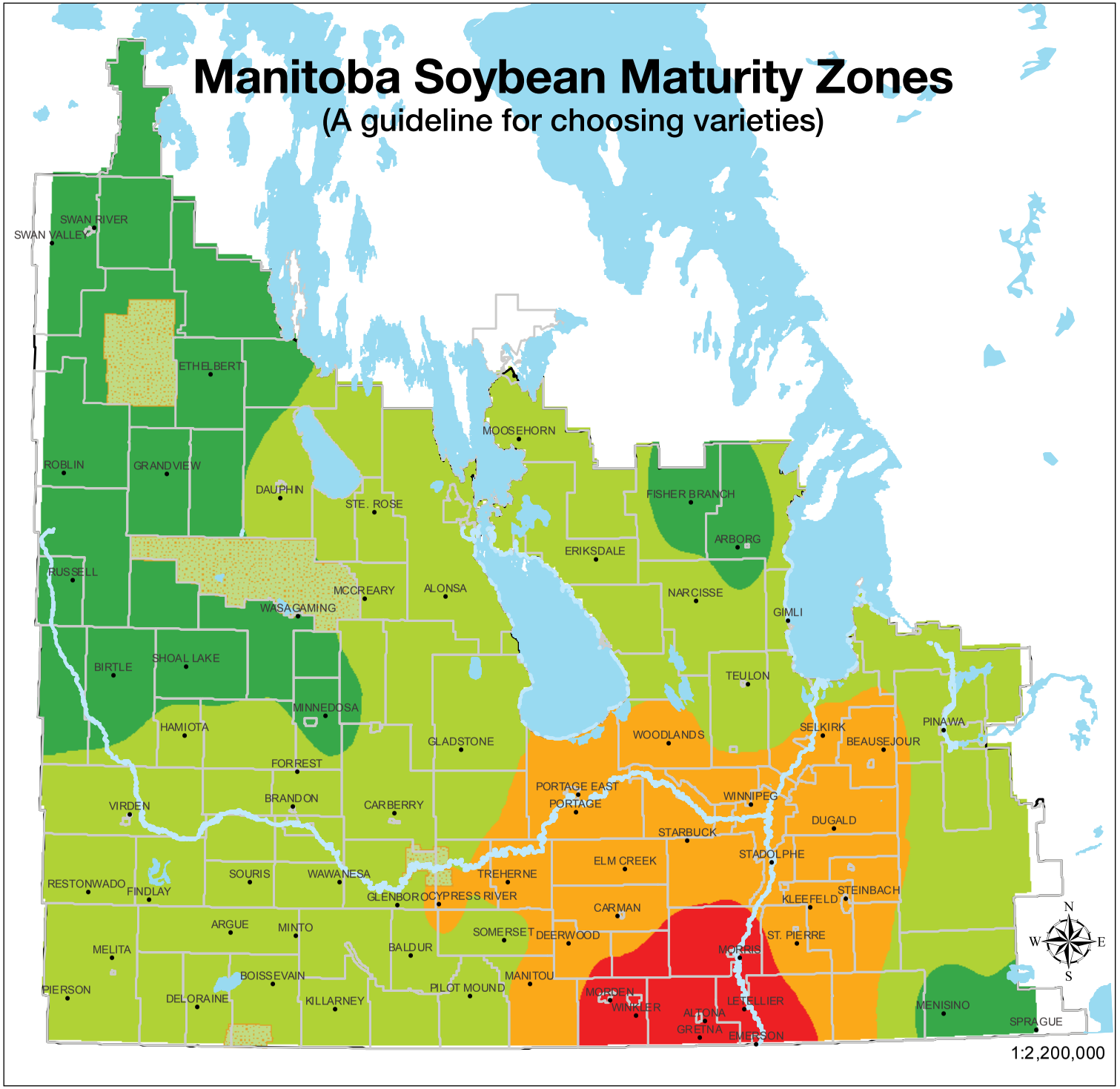
Manitoba Maturity Zone	Variety	Average DTM +/- Check†	Yield % Check	Site-Years Tested	Hilum Colour	2021 Yield % Check	
						Melita	Swan River
Very Early-Season Zone	Norfolk	-11	92	2	IY	93	91
	Ambella	-10	92	4	BR	87	85
Early-Season Zone	Siberia	-3	107	6	IY	109	110
	AAC Halli*	-3	101	8	Y	111	106
	Fjord	-4	95	8	IY	98	89
Mid-Season Zone	Reynolds	-2	109	2	IY	108	111
	OAC Prudence	0	100	11	Y	100	100
	Liska	0	115	4	IY	125	110
	Experimental lines that are being tested/proposed for registration in Canada						
	PR130077Z-28	1	95	2	IY	105	85
	CM-6	2	103	2	Y	99	106
CHECK CHARACTERISTICS							
	OAC Prudence	121	33	11		24	41
		DTM	bu/ac	site-years		bu/ac	
					CV %	5.8	9.3
					LSD %	10	16
					Sign. Diff.	yes	yes
					Seeding Date	May 17	May 17
					Harvest Date	Sep 15	Sep 30

† Maturity ratings were averaged across the Melita and Swan River sites over multiple years.

* Indicates a variety that is protected by, or has been applied for and pending, Plant Breeder's Rights legislation that complies with UPOV 1991.

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 *Pulse and Soybean Variety Guide*, which outlines varieties according to maturity zones.