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 (next 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.

WPX = Blended Variety Xtend® soybeans with glyphosate and dicamba herbicide tolerance.

R2XF = Roundup Ready 2 XtendFlex® soybeans with glyphosate, dicamba and glufosinate 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

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.

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.

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

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


IDC Rating 1


IDC Rating 1.7


IDC Rating 2.1

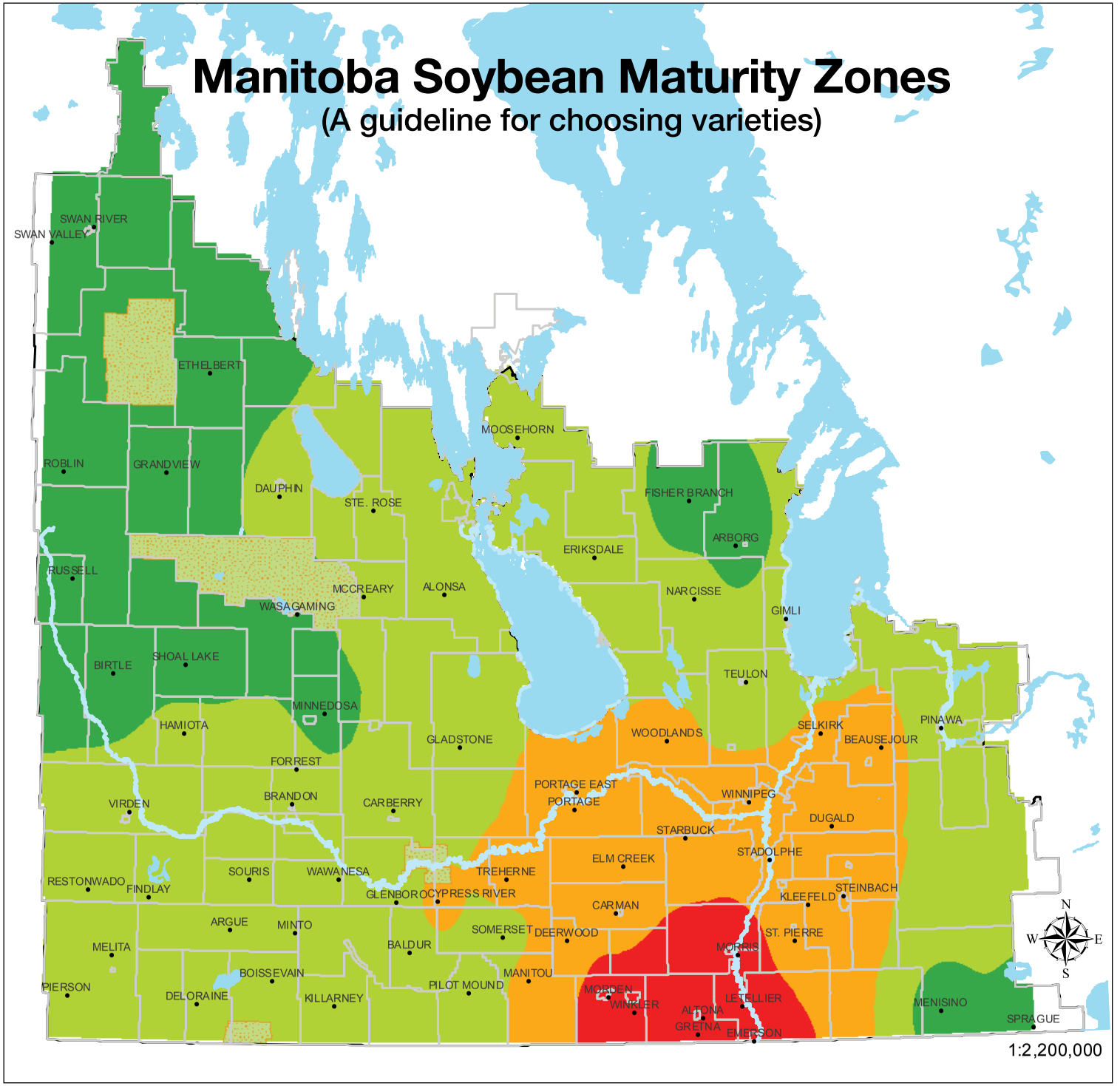

IDC Rating 2.5


IDC Rating 3.5


IDC Rating 4.0

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.

Manitoba Maturity Zone	Company Maturity Group	Variety	Type	Average DTM +/- Check†	Long-Term Yield % Check	Site-Years Tested	Hilum Colour	IDC		Resistance	
								Rating (1–5)	Group	SCN	PRR
Very Early-Season Zone	00.2	Major R2X	R2X	-8	79	5	BR	2.0	ST	–	1c
	0.01	S001-D8X	R2X	-7	82	21	IY	2.0	ST	–	1c
	0.03	S003-R5X	R2X	-6	89	7	IY	2.1	ST	–	1c
	00.4	Bomber R2X	R2X	-5	83	5	BL	2.1	ST	–	1k
	00.3	P003A97X	R2X	-5	90	20	GR	1.8	ST	yes	1k
	000.9	PV S0009X84	R2X	-5	90	5	BL	1.8	ST	yes	–
Early-Season Zone	00.3	PV S004XF13	R2X	-4	88	5	BL	2.3	S	yes	1c
	00.1	BY Hector XT	R2X	-3	84	5	BL	1.9	ST	–	1c
	00.2	P002A42E	E3	-3	84	5	Y	1.7	T	–	1c
	00.4	B0041RX	R2X	-3	93	15	GR	1.7	T	–	1k
	00.5	PV 25s005R2X	R2X	-3	90	2	IY	1.9	ST	–	1c
	00.2	TH84002X	R2X	-2	90	5	BL	1.9	ST	yes	1c
	00.5	Hart R2X	R2X	-2	90	12	BR	1.9	ST	–	1c
	00.2	NSC Arden RR2X	R2X	-2	88	9	BL	1.8	ST	–	1c
	00.3	Akras R2	R2Y	-2	95	32	BL	1.7	T	–	1c
	00.3	BY Deno XT	R2X	-2	90	5	BL	2.0	ST	yes	1c
	00.4	NSC Holland RR2X	R2X	-2	92	15	BR	1.9	ST	–	1c
	000.9	Young R2X	R2X	-2	89	15	BL	1.7	T	yes	1c
	0.05	S005-C9X	R2X	-2	89	21	BL	2.4	S	–	1c
	00.1	PV 28s001R2X	R2X	-2	85	9	BL	1.8	ST	yes	1c
	Experimental lines that are being tested/proposed for registration in Canada										
	00.1	CP00121WPX	WPX	-3	84	9	BL	1.9	ST	–	–
	00.1	CP00123WPX	WPX	-2	92	5	BR	2.0	ST	yes	1c
Mid-Season Zone	000.7	Briggs R2X	R2X	-1	81	5	BL	2.0	ST	yes	1c
	00.2	DKB002-32	R2X	-1	92	18	BR	1.9	ST	yes	1k
	00.5	P005A59E	E3	0	91	9	BR	1.8	ST	–	1c
	00.6	**P006A37X**	**R2X**	**0**	**100**	**32**	**BR**	**1.8**	**ST**	**–**	**1c**
	00.3	Mahony R2	R2Y	0	91	16	BL	2.4	S	–	–
	00.4	Bourke R2X	R2X	0	94	29	BL	1.8	ST	–	1k
	00.3	Sunna R2X	R2X	0	92	32	GR	1.7	T	yes	1c
	00.5	BY Rainier XT	R2X	1	92	6	BL	1.7	T	–	1c
	00.5	Mako R2X	R2X	1	100	6	GR	1.9	ST	–	1c
	00.3	Merino R2X	R2X	1	87	6	BL	1.7	T	yes	1k
	00.2	PV 22s002 R2X	R2X	1	90	15	BL	2.0	ST	yes	1k
	00.4	PV 16s004 R2X	R2X	1	92	29	BL	1.8	ST	yes	1k
	00.3	SI 00323XT	R2X	1	101	5	BL	1.9	ST	–	1c
	00.6	BY Robson XT	R2X	2	105	2	BL	2.1	ST	–	1c
	00.6	SI 00623XT	R2X	2	98	5	BL	2.1	ST	–	1c
	00.6	Mao R2X	R2X	2	99	7	BL	1.7	T	yes	1c
	00.4	TH83004X	R2X	2	99	5	BL	1.8	ST	–	1k
	00.7	NSC EXP007LX	R2X	2	99	2	BR	1.8	T	–	1c, 3a
	Experimental lines that are being tested/proposed for registration in Canada										
	–	SV193025-10-01	R2X	-1	81	5	BL	2.1	ST	–	–
	00.5	CP005WPRX	WPX	2	94	9	BL	1.9	ST	–	1k, 1c, 3a
Long-Season Zone	00.6	Badger R2X	R2X	3	95	6	BL	1.7	T	–	1k
	0.07	S007-A2XS	R2X	3	98	15	GR	1.8	ST	–	–
	00.7	B0073EE	E3	3	93	5	IB	1.7	T	yes	1c
	00.7	PV 26s007R2X	R2X	4	93	3	BL	1.9	ST	yes	1c
	00.9	P00A49X	R2X	4	98	19	BR	1.7	T	yes	1c
	00.6	DKB006-80	R2X	4	101	3	BL	1.9	ST	yes	1c
	00.5	Barker R2X	R2X	4	95	18	BL	1.7	T	yes	1k
	00.7	P007A68E	E3	4	102	5	BF	1.8	ST	–	1c
	00.5	TH82005 R2X	R2X	4	98	15	BR	1.9	ST	–	1k
	00.8	DKB008-48	R2X	4	100	9	BL	1.8	ST	yes	1c, 1k
	00.5	Kudo R2X	R2X	5	97	13	BL	1.8	ST	–	–
	00.8	ND21008GT20 *	RR1	5	83	2	BL	1.7	T	–	–
	00.7	TH81007 R2XN	R2X	5	100	7	BR	1.7	T	yes	1c
	00.8	TH82008XF	R2XF	5	88	3	BL	2.1	ST	yes	1c
	00.9	Triquet R2X	R2X	6	96	2	BI	1.7	T	yes	1k
	00.1	Rico R2X	R2X	6	95	2	GR	2.3	S	–	1c
	00.7	SI 00723XFN	R2X	8	97	5	BL	1.7	T	yes	1c
	00.9	NSC ENGage E3	E3	11	82	2	BL	1.7	T	–	1c
	Experimental lines that are being tested/proposed for registration in Canada										
	00.5	CP00523WPX	WPX	3	99	2	BL	2.1	ST	–	1k, 1c
	00.7	CP00722WPX	WPX	4	93	3	BL	1.9	ST	–	1k, 1c, 3a
	00.8	EXP008-23XF	R2XF	6	93	2	Y	1.9	ST	–	1c, 3a
	–	SV194090-03	R2X	6	78	5	BL	2.5	S	–	–
CHECK CHARACTERISTICS		**P006A37X**		115 DTM	51 bu/ac	32 site-years					

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

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	2023 Yield % Check				
			Early Sites‡			Core Sites	
			Arborg	Beausejour	Stonewall	Carman	St. Adolphe
Very Early-Season Zone	Major R2X	-8	79	80	78	83	74
	S001-D8X	-7	83	86	87	94	83
	S003-R5X	-6	82	92	83	90	89
	Bomber R2X	-5	88	88	80	78	82
	P003A97X	-5	91	78	87	93	93
	PV S0009X84	-5	95	91	87	90	87
Early-Season Zone	PV S004XF13	-4	91	97	81	83	90
	BY Hector XT	-3	84	84	81	79	90
	P002A42E	-3	103	89	80	66	79
	B0041RX	-3	93	78	90	105	89
	PV 25s005R2X	-3	–	–	–	82	100
	TH84002X	-2	89	86	89	89	99
	Hart R2X	-2	92	90	92	82	91
	NSC Arden RR2X	-2	91	91	85	90	91
	Akras R2	-2	93	107	100	94	102
	BY Deno XT	-2	86	93	90	94	86
	NSC Holland RR2X	-2	89	93	92	81	88
	Young R2X	-2	95	80	85	85	98
	S005-C9X	-2	91	84	82	93	91
	PV 28s001R2X	-2	86	91	84	82	86
	Experimental lines that are being tested/proposed for registration in Canada						
	CP00121WPX	-3	91	83	93	83	92
	CP00123WPX	-2	97	90	89	92	88
Mid-Season Zone	Briggs R2X	-1	89	68	81	90	75
	DKB002-32	-1	104	89	84	87	100
	P005A59E	0	97	97	89	75	90
	P006A37X	**0**	**100**	**100**	**100**	**100**	**100**
	Mahony R2	0	83	83	92	89	88
	Bourke R2X	0	94	93	88	87	96
	Sunna R2X	0	89	80	84	84	96
	BY Rainier XT	1	91	95	88	101	85
	Mako R2X	1	111	109	93	96	92
	Merino R2X	1	86	79	84	94	89
	PV 22s002R2X	1	86	89	85	93	90
	PV 16s004 R2X	1	–	–	–	92	96
	SI 00323XT	1	99	109	97	100	101
	BY Robson XT	2	–	–	–	98	114
	SI 00623XT	2	98	101	90	100	101
	Mao R2X	2	–	–	–	93	97
	TH83004X	2	98	104	102	95	99
	NSC EXP007LX	2	–	–	–	108	89
	Experimental lines that are being tested/proposed for registration in Canada						
	SV193025-10-01	-1	86	73	75	82	86
	CP005WPRX	2	101	103	91	92	97
Long-Season Zone	Badger R2X	3	98	94	93	87	101
	S007-A2XS	3	–	–	–	102	93
	B0073EE	3	91	97	96	89	91
	PV 26s007R2X	4	–	–	–	90	100
	P00A49X	4	–	–	–	99	107
	DKB006-80	4	–	–	–	105	98
	Barker R2X	4	–	–	–	94	98
	P007A68E	4	104	110	95	102	100
	TH82005 R2X	4	106	98	99	100	108
	DKB008-48	4	–	–	–	98	96
	Kudo R2X	5	96	107	94	100	96
	ND21008GT20*	5	–	–	–	84	81
	TH81007 R2XN	5	–	–	–	97	100
	TH82008XF	5	–	–	–	90	79
	Triquet R2X	6	–	–	–	90	104
	Rico R2X	6	–	–	–	100	89
	SI 00723XFN	8	101	97	97	91	101
	NSC ENGage E3	11	–	–	–	91	72
	Experimental lines that are being tested/proposed for registration in Canada						
	CP00523WPX	3	–	–	–	101	97
	CP00722WPX	4	–	–	–	89	92
	EXP008-23XF	6	–	–	–	93	93
	SV194090-03	6	75	88	76	78	72
CHECK CHARACTERISTICS							
	P006A37X	115 DTM	67	60	59	66	57
			bu/ac				
		CV %	8.1	7.5	8.2	8.7	5.5
		LSD %	12	11	12	13	8
		Sign. Diff.	yes	yes	yes	yes	yes
		Seeding Date	May 15	May 23	May 22	May 24	May 23
		Harvest Date	Sep 27	Oct 16	Sep 27	Oct 10	Sep 27

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

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	Long-Term Yield % Check	Site-Years Tested	IDC Rating (1–5)	IDC Group	Resistance SCN	Resistance PRR	2023 Yield % Check Dauphin	Hamiota	Souris	Swan River
Very Early-Season Zone	000.5	BY Rundle XT *	-5	88	16	2.1	ST	yes	1c, 3a	100	78	95	94
	000.9	S0009-F2X	-4	91	16	1.9	ST	–	1c	93	88	94	95
	0.007	S0007-S1X	-4	85	10	2.3	S	–	1c, 3a	92	87	91	85
Early-Season Zone	000.3	Wolf R2X *	-1	90	10	1.9	ST	yes	3a	96	90	97	101
	0.01	S001-D8X	-1	91	16	2.0	ST	–	1c	96	91	97	90
	00.2	Major R2X	-1	92	10	2.0	ST	–	1c	92	94	97	112
	0.01	B0012RX	-1	99	16	1.7	T	–	1k, 6	101	97	107	102
	00.1	Polo R2X	-1	94	10	1.8	ST	–	–	102	97	96	96
	000.7	Gecko R2X	-1	103	4	1.8	ST	–	1c	103	101	103	104
	000.8	NSC EXP0008CX	-1	104	4	1.8	ST	–	1c	108	106	101	99
	0.03	**S003-R5X**	**0**	**100**	**16**	**2.1**	**ST**	**–**	**1c**	**100**	**100**	**100**	**100**
	000.7	PV S0007X74	0	103	4	1.8	ST	–	1c, 3a	105	91	117	98
	000.7	Briggs R2X	0	94	10	2.0	ST	yes	1c	88	96	99	104
	00.3	PV S004XF13	0	95	4	2.3	S	yes	1c	93	96	96	97
	000.5	DKB0005-03	1	93	10	1.8	ST	–	1c	108	106	112	92
	00.2	P002A42E	1	95	4	1.7	T	–	1c	98	90	104	88
	00.4	Bomber R2X	1	99	4	2.1	ST	–	1k	98	91	108	96
	000.9	Young R2X	1	98	16	1.7	T	yes	1c	106	103	115	117
	000.6	PV S0006X24	1	99	4	1.8	ST	yes	–	98	102	98	97
	00.2	NSC Arden RR2X	1	94	10	1.8	ST	–	1c	102	97	105	94
	000.9	S0009-J5X	1	99	4	1.8	ST	–	1c, 3a	103	85	108	96
	00.1	PV 28s001R2X	2	95	10	1.8	ST	yes	1c	102	102	107	112
	000.9	PV S0009X84	2	106	4	1.8	ST	yes	–	105	94	103	121
	00.5	PV 25s005R2X	2	100	3	1.9	ST	–	1c	96	96	110	–
	000.9	TH830009X	2	95	10	2.1	ST	–	1c	97	91	111	112
	000.8	DKB0008-87	2	96	16	1.9	ST	yes	1c, 1k	100	94	100	117
	00.3	P003A97X	2	99	16	1.8	ST	yes	1k	104	98	110	111
	00.3	Sunna R2X	3	94	15	1.7	T	yes	1c	101	99	98	–
	00.5	Hart R2X	3	97	14	1.9	ST	–	1c	103	106	106	–
	00.3	BY Deno XT	3	108	4	2.0	ST	yes	1c	108	111	113	99
	00.3	Mahony R2	3	100	9	2.4	S	–	–	100	104	112	–
	00.1	DKB001-07	3	105	4	1.7	T	yes	1k	101	93	104	124
	Experimental lines that are being tested/proposed for registration in Canada												
	00.1	CP00123WPX	2	103	3	2	ST	yes	1c	100	95	113	–
Mid-Season Zone	00.1	NSC EXP001CX	4	101	4	1.8	ST		1c	97	96	109	102
	00.4	NSC Holland RR2X	4	94	8	1.9	ST	–	1c	96	92	112	–
	00.4	B0041RX	4	101	14	1.7	T	–	1k	101	104	116	115
	00.5	P005A59E	4	99	10	1.8	ST	–	1c	103	106	103	108
	00.1	BY Hector XT	4	103	4	1.9	ST	–	1c	96	99	107	113
	00.3	SI 00323XT	4	111	4	1.9	ST	–	1c	109	114	110	113
	00.3	Akras R2	4	96	16	1.7	T	–	1c	99	106	106	114
	00.3	NSC EXP003CX	5	120	4	1.8	ST	yes	1c	108	113	121	140
	00.2	PV 22s002 R2X	5	98	16	2.0	ST	yes	1k	102	98	121	113
	00.4	TH83004X	5	109	3	1.8	ST	–	1k	107	103	116	–
	00.3	Merino R2X	5	98	8	1.7	T	yes	1k	100	98	106	–
	00.4	Bourke R2X	5	95	13	1.8	ST	–	1k	101	94	105	–
	00.5	Badger R2X	5	108	3	1.7	T	–	1k	105	107	113	–
	00.2	TH84002X	5	111	4	1.9	ST	yes	1c	103	102	117	127
	00.2	DKB002-32	5	102	10	1.8	ST	yes	1k	100	99	121	118
	00.7	NSC EXP007LX	6	109	3	1.7	T		1c, 3a	108	107	111	–
	00.4	PV 16s004 R2X	6	98	13	1.8	ST	yes	1k	98	103	116	–
	00.7	P007A68E	7	111	3	1.8	ST	–	1c	103	110	121	–
	00.7	B0073EE	7	106	3	1.7	T	yes	1c	105	104	107	–
	00.5	Mako R2X	8	101	8	1.9	ST	–	1c	99	109	112	–
	00.5	TH82005 R2X	8	101	13	1.9	ST	–	1k	104	95	119	–
	00.5	TH84005XF	9	106	3	1.7	T	yes	1c	106	95	117	–
	Experimental lines that are being tested/proposed for registration in Canada												
	00.1	CP00121WPX	3	104	3	1.9	ST	–	–	102	96	113	–
CHECK CHARACTERISTICS		**S003-R5X**	117 DTM	67 bu/ac	16 site-years					76	61	65	58
												bu/ac	
									CV %	4.2	4.8	6.0	10.1
									LSD %	7	8	10	17
									Sign. Diff.	yes	yes	yes	yes
									Seeding Date	May 30	May 24	May 25	May 25
									Harvest Date	Oct 10	Sep 27	Sep 29	Sep 19

† Maturity ratings were averaged across the Dauphin, Hamiota and Melita sites over multiple site 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 ◆ VARIETY DESCRIPTIONS

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	Long-Term Yield % Check	Site-Years Tested	Hilum Colour	IDC Rating (1–5)	IDC Group
Very Early-Season Zone	00.9	AAC Halli *	-8	89	19	Y	1.8	ST
	00.2	Siberia	-6	92	19	IY	2.0	ST
	Experimental lines that are being tested/proposed for registration in Canada							
	00.5	CRGS 21.3	-6	90	5	Y	1.7	T
Early-Season Zone	00.3	Amistar	-4	94	9	Y	1.8	ST
	00.5	Rosser	-3	95	16	IY	1.9	ST
	00.5	Prostar *	-2	94	9	Y	1.9	ST
	00.5	Howden	-2	101	10	IY	2.1	ST
	00.3	Reynolds	0	93	19	IY	2.1	ST
	00.3	**Liska ***	**0**	**100**	**19**	**IY**	**2.3**	**S**
	00.6	Kebek	0	94	19	Y	1.7	T
	00.4	Abaca *	0	113	14	IY	1.8	ST
	Experimental lines that are being tested/proposed for registration in Canada							
	00.5	OT23-01	-4	103	5	Y	1.7	T
	00.5	PR190209-11	-2	100	5	IY	2.4	S
	00.5	OT22-04	-2	103	5	Y	2.0	ST
	00.5	CRGS 18.1	-2	104	7	Y	2.0	ST
	00.5	OT23-02	-1	98	5	Y	1.7	T
	00.5	OT23-03	0	106	5	GR	1.7	T
Mid-Season Zone	00.8	Jador	1	103	6	Y	1.7	T
	00.7	Mozart	2	102	8	Y	2.0	ST
	00.7	Koa *	2	100	3	IY	1.7	T
	00.7	Dufferin	2	99	7	IY	2	ST
	00.6	Aurelina *	3	105	14	IY	1.9	ST
	00.6	Maya *	4	89	8	Y	1.7	T
	Experimental lines that are being tested/proposed for registration in Canada							
	00.8	OT20-06	2	105	5	Y	2.3	S
Long-Season Zone	00.7	Jago	5	103	16	Y	2.3	S
	00.9	Hana	6	97	5	Y	2.0	ST
	0.0	Stanley	6	101	11	IY	2.1	ST
	Experimental lines that are being tested/proposed for registration in Canada							
	00.7	SVX23T00S48	5	111	5	IY	1.9	ST
	00.1	SVX24T00S64	6	105	5	IY	2.3	S
	00.9	PR171862Z-02	6	93	2	IY	2.3	S
	00.7	DL21-3007	6	103	11	Y	2.1	ST
	00.5	CRGS 16.1	7	99	7	BR	2.3	S
	00.7	SVX24T00S65	9	109	5	Y	2.3	S
CHECK CHARACTERISTICS		**Liska**	118 DTM	50 bu/ac	19 site-years			

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

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CONVENTIONAL SOYBEANS ◆ YIELDS BY LOCATION ◆ EASTERN MANITOBA

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	2023 Yield % Check: Early Sites‡ Arborg	Early Sites‡ Beausejour	Early Sites‡ Stonewall	Core Sites Carman	Core Sites St. Adolphe
Very Early-Season Zone	AAC Halli *	-8	99	102	94	72	89
	Siberia	-6	108	100	60	85	92
	Experimental lines that are being tested/proposed for registration in Canada						
	CRGS 21.3	-6	97	91	90	76	94
Early-Season Zone	Amistar	-4	102	91	89	86	93
	Rosser	-3	101	108	94	92	91
	Prostar *	-2	93	93	88	88	94
	Howden	-2	110	99	95	95	87
	Reynolds	0	110	92	93	89	97
	Liska *	**0**	**100**	**100**	**100**	**100**	**100**
	Kebek	0	82	104	95	85	94
	Abaca *	0	116	125	115	109	108
	Experimental lines that are being tested/proposed for registration in Canada						
	OT23-01	-4	112	101	106	90	105
	PR190209-11	-2	106	103	85	100	103
	OT22-04	-2	106	109	101	99	99
	CRGS 18.1	-2	116	113	95	96	103
	OT23-02	-1	97	102	96	94	100
	OT23-03	0	110	102	118	96	108

continued ➤

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	2023 Yield % Check				
			Early Sites‡			Core Sites	
			Arborg	Beausejour	Stonewall	Carman	St. Adolphe
Mid-Season Zone	Jador	1	108	111	111	95	104
	Mozart	2	111	105	103	106	102
	Koa *	2	–	–	–	98	108
	Dufferin	2	–	–	–	104	98
	Aurelina *	3	105	111	110	107	107
	Maya *	4	–	–	–	87	96
	Experimental lines that are being tested/proposed for registration in Canada						
	OT20-06	2	-	-	-	108	118
Long-Season Zone	Jago	5	96	115	110	109	108
	Hana	6	–	–	–	102	96
	Stanley	6	–	–	–	111	100
	Experimental lines that are being tested/proposed for registration in Canada						
	SVX23T00S48	5	116	120	114	108	98
	SVX24T00S64	6	114	109	99	95	105
	PR171862Z-02	6	–	–	–	94	92
	DL21-3007	6	104	103	109	116	90
	CRGS 16.1	7	101	94	101	101	100
	SVX24T00S65	9	116	108	110	105	107
CHECK CHARACTERISTICS							
	Liska	118	60	56	45	57	54
		DTM	bu/ac				
		CV %	8.2	8.2	5.9	5.9	5.2
		LSD %	14	14	10	9	8
		Sign. Diff.	yes	yes	yes	yes	yes
		Seeding Date	May 15	May 23	May 22	May 24	May 23
		Harvest Date	Sep 27	Oct 16	Sep 27	Oct 10	Sep 27

† 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 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	Company Maturity Group	Variety	Average DTM +/- Check†	Long-Term Yield % Check	Site-Years Tested	Hilum Colour	IDC		2023 Yield % Check	
							Rating (1–5)	Group	Melita	Swan River
Very Early-Season Zone	00.2	Ambella	-11	85	8	BR	2.1	ST	80	69
Early-Season Zone	00.9	AAC Halli *	-4	96	12	Y	1.8	ST	78	98
	00.2	Siberia	-4	95	10	IY	2.0	ST	73	103
Mid-Season Zone	00.4	Abaca *	0	107	2	IY	1.8	ST	97	112
	00.3	**Liska ***	**0**	**100**	**8**	**IY**	**2.3**	**S**	**100**	**100**
	00.5	Rosser	0	100	2	IY	1.9	ST	92	104
	00.2	Pamela	1	91	4	IY	1.7	T	76	97
	Experimental lines that are being tested/proposed for registration in Canada									
	00.1	SZDT4244	-3	93	2	IY	1.7	T	80	101
	00.5	PR190209-11	0	97	2	IY	2.3	S	87	103
CHECK CHARACTERISTICS										
		Liska	118	46	8				34	58
			DTM	bu/ac	site-years				bu/ac	
						CV %			6.3	8.3
						LSD %			9	14
						Sign. Diff.			yes	yes
						Seeding Date			May 15	May 25
						Harvest Date			Sep 3	Sep 19

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

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