

# 2022 SOYBEAN VARIETY GUIDE

This publication features the results from MPSG-sponsored trials.

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## 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® Tolerant.

**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 Rating 1



IDC Rating 1.7



IDC Rating 2.1



IDC Rating 2.5



IDC Rating 3.5



IDC Rating 4.0

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

Soluble Salt (mmhos/cm)	Carbonate (%)		
	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](http://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 *Phytophthora sojae* (rps) genes currently available in Manitoba for control of Phytophthora root rot.

Race of <i>P. sojae</i>	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

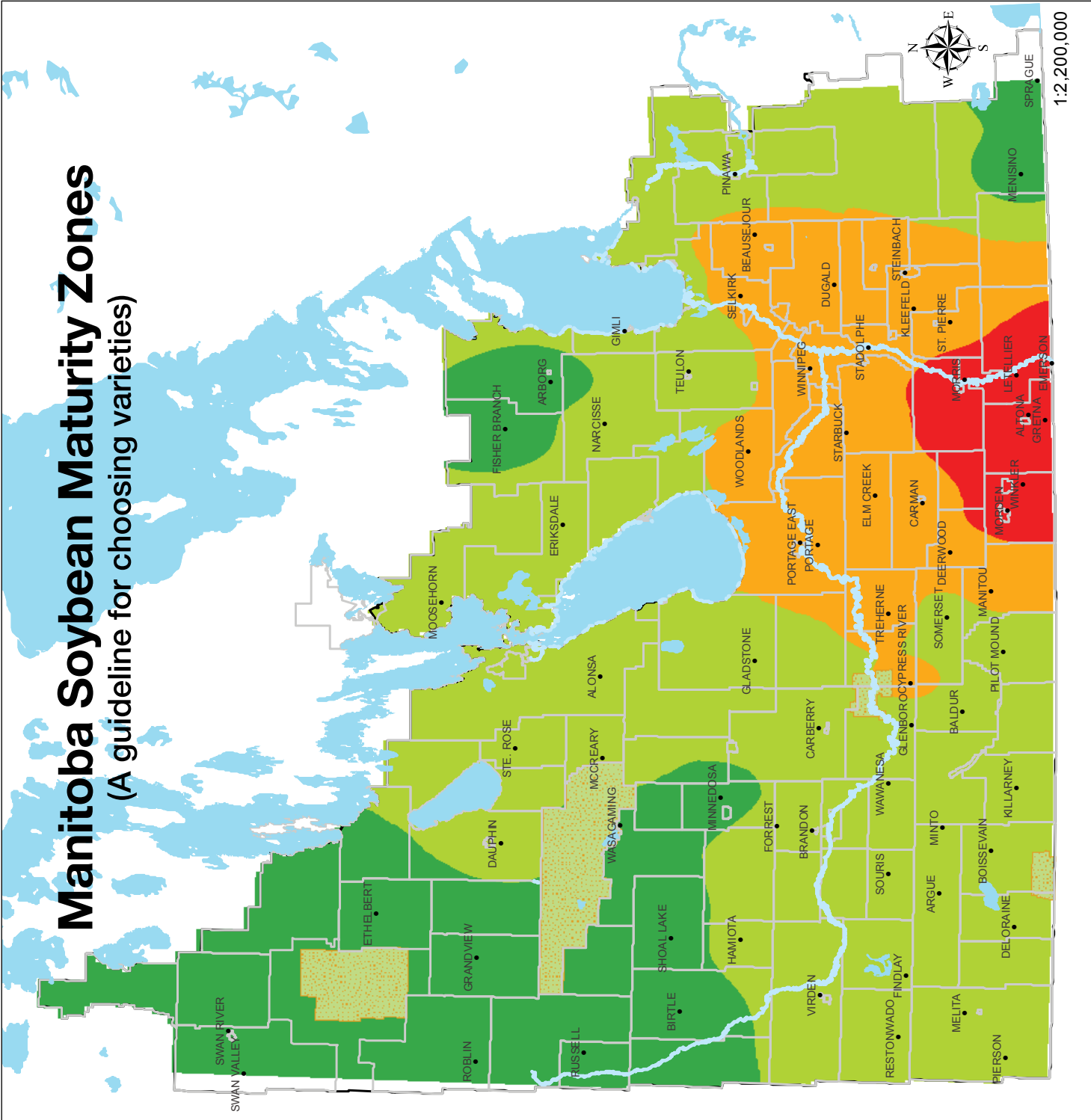
**CV %** – The coefficient of variation (CV) is the statistical measure of random variation in a research trial. A CV of less than 15% generally indicates a more uniform trial and conclusive data.

**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.

# 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 T<sub>min</sub> > 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.

1:2,200,000

# HERBICIDE TOLERANT SOYBEANS ♦ VARIETY DESCRIPTIONS ♦ EASTERN MANITOBA

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	000.5	BY Rundle XT	R2X	-13	78	10	BL	2.1	ST	yes	1c, 3a	
	000.8	NSC Dauphin RR2X	R2X	-12	78	10	IY	2.3	S	-	1c	
	00.1	P001A48X	R2X	-7	95	21	TN	1.8	ST	-	1c	
	00.3	P003A97X	R2X	-7	98	15	GR	1.8	ST	yes	1k	
	00.1	BY Morro XT	R2X	-7	91	4	GR	2.6	S	yes	3b	
Early-Season Zone	00.1	S001-D8X	R2X	-6	87	16	IY	2.0	ST	-	1c	
	00.1	B0012RX	R2X	-5	95	10	BR	1.7	T	-	1k, 6	
	00.3	S003-R5X	R2X	-5	98	7	IY	2.1	ST	-	1c	
	00.1	Pikas R2X	R2X	-5	88	4	BL	1.8	ST	yes	1c	
	00.4	B0041RX	R2X	-4	102	10	GR	1.7	T	-	1k	
	000.9	Young R2X	R2X	-4	98	10	BL	1.7	T	yes	1c	
	00.3	Akras R2	R2Y	-3	101	31	BL	1.7	T	-	1c	
	000.7	BY Logan XT	R2X	-3	93	4	BL	2.1	ST	yes	1c	
	00.3	S003-Z4X	R2X	-3	96	16	BF	1.9	ST	-	1c	
	00.1	SI 001XTN	R2X	-3	98	27	BL	1.7	T	yes	1k	
	000.9	NSC Arden RR2X	R2X	-3	94	4	BL	2.0	ST	-	1c	
	00.5	S005-C9X	R2X	-2	96	16	BL	2.4	S	-	1c	
	00.4	Mikado R2X	R2X	-2	96	7	BL	2.0	ST	yes	1c	
	00.4	NSC Holland RR2X	R2X	-2	103	10	BR	2.0	ST	-	1c	
	00.1	PV 28s001R2X	R2X	-2	93	4	BL	1.8	ST	yes	1c	
	00.5	Hart R2X	R2X	-2	99	7	BR	2.0	ST	-	1c	
	00.1	NSC EXP001LX	R2X	-2	96	4	IY	2.0	ST	-	1c, 3a	
	00.2	PV 22s002 R2X	R2X	-2	99	10	BL	2.0	ST	yes	1k	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>											
Mid-Season Zone	00.1	CP00121WPX	WPX	-3	88	4	BL	2.1	ST	-	-	
	00.2	DKB002-32	R2X	-1	99	13	BR	1.8	ST	yes	1k	
	00.5	BY Rainier XT	R2X	-1	100	1	BL	1.7	T	-	1c	
	00.4	Bourke R2X	R2X	-1	102	24	BL	1.8	ST	-	1k	
	00.6	RX Acron	R2X	-1	101	15	BL	1.8	ST	yes	-	
	00.6	NSC Sperling RR2Y	R2Y	-1	105	22	IY	1.8	ST	-	1a, 3a	
	00.3	Merino R2X	R2X	-1	96	1	BL	1.7	T	yes	1k	
	00.5	P005A59E	E3	-1	101	4	BR	1.8	ST	-	1c	
	00.3	Sunna R2X	R2X	-1	101	27	GR	1.7	T	yes	1c	
	00.2	SI 00221XTN	R2X	-1	93	4	BL	1.9	ST	yes	1c	
	00.6	S006-K3X	R2X	0	100	4	BF	1.9	ST	yes	1c	
	00.6	P006A37X	R2X	0	108	27	BR	1.8	ST	-	1c	
	00.5	DKB005-52	R2X	0	100	32	BL	1.8	ST	yes	1c	
	00.5	Mako R2X	R2X	0	112	1	GR	1.8	ST	-	1c	
	00.3	TH 87003 R2X	R2X	0	96	31	BL	1.8	ST	yes	1c	
	00.4	PV 16s004 R2X	R2X	0	100	27	BL	1.8	ST	yes	1k	
	00.6	DKB006-80	R2X	1	111	1	BL	1.9	ST	yes	1c	
	00.3	SI 00321XT	R2X	1	99	4	BR	2.3	S	-	1c	
	00.4	SI 00421XT	R2X	1	96	4	GR	2.4	S	-	1a, 6	
	00.6	SI 00620XTN	R2X	1	103	7	BL	1.8	ST	yes	1c	
	00.6	Badger R2X	R2X	2	111	1	BL	1.7	T	-	1k	
	00.7	Elmo E3	E3	2	100	9	BR	1.9	ST	yes	-	
	00.6	Mao R2X	R2X	2	107	5	BL	1.7	T	yes	1c	
	00.8	DKB008-48	R2X	2	111	7	BL	1.8	ST	yes	1c, 1k	
	00.7	PV 26s007R2X	R2X	2	100	1	BL	1.9	ST	yes	1c	
	00.8	Jaguar R2X	R2X	2	106	1	BL	2.1	ST	-	1c	
	00.9	P00A49X	R2X	2	104	17	BR	1.7	T	yes	1c	
	00.7	B0071RX	R2X	2	108	1	BR	-	-	yes	1k, 6	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>											
	Long-Season Zone	00.7	CP00722WPX	WPX	1	109	1	BL	2.0	ST	-	1k, 1c, 3a
		00.5	CP005WPRX	WPX	1	99	4	BL	1.9	ST	-	1k, 1c, 3a
		00.7	TH82005 R2X	R2X	3	104	10	BR	1.9	ST	-	1k
00.7		SI 007XTN	R2X	3	103	24	BL	1.8	ST	yes	1c	
00.7		S007-A2XS	R2X	3	106	13	GR	1.8	ST	-	-	
00.8		NSC Winkler RR2X	R2X	3	104	17	BL	1.8	ST	yes	1c	
00.7		TH81007 R2XN	R2X	4	106	5	BR	1.7	T	yes	1c	
00.8		TH82008XF	R2X	7	103	1	BL	2.1	ST	yes	1c	
<b>Experimental lines that are being tested/proposed for registration in Canada</b>												
	00.7	SV193236-04	R2X	6	90	4	BR	2.4	S	yes	1c, 6	

**CHECK CHARACTERISTICS**

DKB005-52	121	46	32
	DTM	bu/ac	site-years

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

# HERBICIDE TOLERANT SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA

2022 Yield % Check

Manitoba Maturity Zone	Variety	Average DTM +/- Check <sup>†</sup>	Early Sites <sup>‡</sup>				
			Arborg	Beausejour	Stonewall	Carman	
Very Early-Season Zone	BY Rundle XT	-13	80	81	77	91	
	NSC Dauphin RR2X	-12	64	77	71	91	
	P001A48X	-7	109	104	98	100	
	P003A97X	-7	105	107	97	100	
	BY Morro XT	-7	95	84	93	92	
	S001-D8X	-6	83	93	74	91	
	B0012RX	-5	93	97	90	98	
	S003-R5X	-5	92	105	101	101	
	Pikas R2X	-5	88	92	79	92	
	B0041RX	-4	102	104	96	109	
Early-Season Zone	Young R2X	-4	98	105	95	98	
	Akras R2	-3	111	99	84	97	
	BY Logan XT	-3	90	92	88	101	
	S003-Z4X	-3	93	92	89	99	
	SI 001XTN	-3	92	89	91	101	
	NSC Arden RR2X	-3	91	93	91	99	
	S005-C9X	-2	106	92	102	100	
	Mikado R2X	-2	-	-	-	96	
	NSC Holland RR2X	-2	94	105	91	98	
	PV 28s001R2X	-2	88	98	88	97	
	Hart R2X	-2	-	-	-	104	
	NSC EXP001LX	-2	101	94	89	100	
	PV 22s002 R2X	-2	88	102	94	104	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>						
	CP00121WPX	-3	79	88	91	93	
	Mid-Season Zone	DKB002-32	-1	-	-	-	107
		BY Rainier XT	-1	-	-	-	100
		Bourke R2X	-1	-	-	-	104
RX Acron		-1	-	-	-	107	
NSC Sperling RR2Y		-1	-	-	-	99	
Merino R2X		-1	-	-	-	96	
P005A59E		-1	97	99	104	105	
Sunna R2X		-1	95	98	89	95	
SI 00221XTN		-1	88	96	85	102	
S006-K3X		0	105	105	90	98	
P006A37X		0	114	112	102	111	
DKB005-52		0	100	100	100	100	
Mako R2X		0	-	-	-	112	
TH 87003 R2X		0	96	100	86	102	
PV 16s004 R2X		0	95	98	92	105	
DKB006-80		1	-	-	-	111	
SI 00321XT		1	97	101	87	109	
SI 00421XT		1	92	101	89	101	
SI 00620XTN		1	-	-	-	103	
Badger R2X		2	-	-	-	111	
Elmo E3		2	-	-	-	100	
Mao R2X		2	-	-	-	109	
DKB008-48		2	-	-	-	106	
PV 26s007R2X		2	-	-	-	100	
Jaguar R2X		2	-	-	-	106	
P00A49X		2	-	-	-	107	
B0071RX		2	-	-	-	108	
<b>Experimental lines that are being tested/proposed for registration in Canada</b>							
CP00722WPX		1	-	-	-	109	
CP005WPRX		1	103	91	98	104	
Long-Season Zone	TH82005 R2X	3	105	109	94	109	
	SI 007XTN	3	96	105	90	105	
	S007-A2XS	3	-	-	-	112	
	NSC Winkler RR2X	3	-	-	-	105	
	TH81007 R2XN	4	-	-	-	106	
	TH82008XF	7	-	-	-	103	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>						
SV193236-04	6	88	94	84	94		
<b>CHECK CHARACTERISTICS</b>							
DKB005-52	121 DTM	59	66	60	73		
	CV %	8.7	6.1	6.6	5.6		
	LSD %	13	10	10	9		
	Sign. Diff.	yes	yes	yes	yes		
	Seeding Date	May 26	May 27	Jun 4	May 22		
	Harvest Date	Oct 11	Oct 7	Oct 8	Oct 5		

† 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.

**HERBICIDE TOLERANT SOYBEANS ♦ VARIETY DESCRIPTIONS & YIELDS BY LOCATION ♦ WESTERN MANITOBA**

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check <sup>†</sup>	Long-Term Yield % Check	Site-Years Tested	IDC		Resistance		2022 Yield % Check					
						Rating (1-5)	Group	SCN	PRR	Dauphin	Hamiota	Holland	Melita	Souris	Swan River
Very Early-Season Zone	000.7	EVO E3	-9	87	6	2.4	S	-	-	91	91	84	86	88	79
	000.5	BY Rundle XT	-8	92	12	2.1	ST	yes	1c, 3a	102	93	92	91	85	89
	000.9	S0009-F2X	-8	97	12	2.0	ST	-	1c	96	99	100	95	98	95
	000.3	DKB0003-24	-7	92	12	1.9	ST	yes	1c, 1k	104	112	100	83	79	94
	000.5	PV 27s0005R2X	-7	81	6	2.1	ST	yes	1k	99	78	82	87	75	65
	000.7	S0007-S1X	-7	91	6	2.7	S	-	1c, 3a	95	97	89	93	94	76
	000.8	NSC Dauphin RR2X	-7	83	12	2.3	S	-	1c	89	72	82	80	74	78
	000.5	Amirani R2	-6	87	19	1.8	ST	-	1k	98	96	81	87	74	86
	000.3	Wolf R2X	-6	95	6	2.0	ST	yes	3a	108	93	88	96	89	96
Early-Season Zone	00.1	NSC EXP001LX	-5	94	11	2.0	ST	-	1c, 3a	100	98	96	84	90	81
	00.1	Polo R2X	-5	100	6	2.1	ST	-	-	100	103	102	100	106	85
	000.7	Briggs R2X	-4	102	6	1.9	ST	-	-	107	108	93	95	105	104
	00.1	S001-D8X	-4	100	17	2.0	ST	-	1c	100	104	88	93	90	104
	00.1	BY Morro XT	-4	99	5	2.6	S	yes	3b	108	102	90	93	99	-
	00.2	Major R2X	-4	96	6	2.1	ST	-	-	99	98	88	88	102	103
	00.1	P001A48X	-4	102	19	1.8	ST	-	1c	116	106	95	99	106	116
	00.1	B0012RX	-4	106	12	1.7	T	-	1k, 6	103	114	111	96	109	111
	00.1	Pikas R2X	-3	87	6	1.8	ST	yes	1c	94	92	75	88	84	95
	00.3	S003-R5X	-3	105	6	2.1	ST	-	1c	116	112	110	102	108	103
	000.8	PV 24s0008R2X	-3	94	6	1.7	T	yes	-	97	95	93	90	97	91
	00.4	TH89004 R2X	-3	95	19	1.9	ST	-	1c	94	89	90	87	81	94
	000.5	DKB0005-03	-2	95	6	-	-	-	1c	110	96	91	86	101	78
	00.2	SI 00221XTN	-2	101	6	1.9	ST	yes	1c	105	106	111	90	96	93
	000.9	Young R2X	-2	101	12	1.7	T	yes	1c	105	94	102	92	108	106
	00.3	P003A97X	-2	102	19	1.8	ST	yes	1k	113	111	91	99	103	96
	00.3	S003-Z4X	-2	103	19	1.8	ST	-	1c	99	106	96	98	108	99
	000.9	TH830009X	-2	99	6	2.1	ST	-	1c	105	103	93	95	104	88
	000.9	SI 000919XT	-1	96	17	1.7	T	-	-	104	103	94	85	93	77
	00.1	PV 28s001R2X	-1	97	6	1.8	ST	yes	1c	106	98	93	95	90	98
	00.5	P005A83X	-1	106	19	1.7	T	yes	1c	110	107	109	93	98	102
	000.8	DKB0008-87	-1	101	12	1.9	ST	yes	1c, 1k	106	105	95	85	104	103
	00.1	SI 001XTN	-1	99	24	1.8	ST	yes	1k	105	98	95	91	104	108
	000.9	NSC Arden RR2X	0	100	6	2.0	ST	-	1c	109	110	97	96	107	71
	00.3	Sunna R2X	0	100	22	1.7	T	yes	1c	98	106	98	88	102	103
	00.5	S005-C9X	0	105	14	2.3	S	-	1c	104	108	103	95	102	-
	00.4	B0041RX	0	105	10	1.7	T	-	1k	118	107	98	97	107	-
	00.5	Hart R2X	0	102	11	2.0	ST	-	1c	108	116	97	96	98	-
	00.3	Akras R2	0	100	43	1.7	T	-	1c	100	100	100	100	100	100
	000.7	BY Logan XT	0	94	6	2.1	ST	yes	1c	100	99	99	89	94	81
00.5	P005A27X	0	103	24	1.8	ST	-	1c	103	118	108	98	101	120	
00.5	P005A59E	0	104	6	1.8	ST	-	1c	108	111	105	95	102	100	
00.4	NSC Holland RR2X	0	100	5	2.0	ST	-	1c	112	100	97	92	95	-	
<b>Experimental lines that are being tested/proposed for registration in Canada</b>															
-	CP000621WPIX	-4	89	6	2.4	S	-	1c	95	93	85	88	93	80	
Mid-Season Zone	00.4	Mikado R2X	1	97	10	2.0	ST	yes	1c	99	98	99	87	96	-
	00.3	SI 00321XT	1	98	6	2.3	S	-	1c	108	102	99	85	91	94
	00.2	PV 22s002 R2X	1	102	12	2.0	ST	-	-	106	102	100	91	103	102
	00.3	TH 87003 R2X	1	97	28	1.8	ST	yes	1c	108	101	101	91	102	-
	00.3	Merino R2X	2	106	5	1.7	T	yes	1k	105	118	105	92	106	-
	00.6	S006-K3X	2	104	5	1.7	T	yes	1c	106	99	112	86	108	-
	00.4	Bourke R2X	3	102	16	1.8	ST	-	1k	100	99	105	86	104	-
	00.4	PV 16s004 R2X	3	101	20	1.8	ST	yes	1k	101	115	104	85	99	-
	00.2	DKB002-32	3	105	11	1.8	ST	yes	1k	107	114	98	95	118	101
	00.5	TH82005 R2X	4	107	10	1.9	ST	-	1k	114	110	101	92	106	-
	00.4	SI 00421XT	4	99	6	2.4	S	-	1a, 6	109	103	95	86	99	100
	00.5	Mako R2X	4	108	5	1.8	ST	-	1c	106	119	106	85	120	-
	<b>CHECK CHARACTERISTICS</b>														
	Akras R2	120 DTM	56 bu/ac	43 site-years						76	72	86	50	72	55
										bu/ac					
								CV %	6.2	7.8	7.1	5.3	5.7	7.7	
								LSD %	10	13	11	8	9	12	
								Sign. Diff.	yes	yes	yes	yes	yes	yes	
								Seeding Date	June 3	May 27	May 26	May 26	May 26	May 27	
								Harvest Date	Oct 19	Oct 9	Oct 11	Sep 21	Oct 14	Oct 5	

<sup>†</sup> Maturity ratings were averaged across the Dauphin, Hamiota and Melita sites over multiple site years.



## HERBICIDE TOLERANT SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN FIRST YEAR ENTRIES

Manitoba Maturity Zone	Variety	Average DTM +/- Check <sup>†</sup>	IDC		2022 Yield % Check	
			Rating	Group	Carman	
Very Early-Season Zone	PV S0009X84	-12	1.8	ST	89	
Early-Season Zone	PV S004XF13	-5	2.0	ST	99	
	DKB005-52	0	1.8	ST	100	
Mid-Season Zone	NSC EXP006PX	0	1.9	ST	92	
	TH83004X	2	1.9	ST	91	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>					
	EXP001-22	1	1.9	ST	90	
	SX223006X	1	2.1	ST	95	
	SX228006X	2	1.9	ST	96	
	Rico R2X	3	2.3	S	96	
Long-Season Zone	SVX00522XTN	3	2.2	ST	92	
	ND21008GT20	4	2.1	ST	90	
	NSC EXP007PX	5	2.0	ST	99	
	Triquet R2X	6	1.8	ST	97	
	Eko E3	8	2.3	S	88	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>					
	PR150363Z-20	4	2.4	S	94	
	SV183165-08-05	5	2.4	S	88	
	SVX0222E3N	6	2.4	S	100	
	PR150002Z-16	6	2.1	ST	95	
SV183201-10-02	8	2.1	ST	99		
<b>CHECK CHARACTERISTICS</b>						
	DKB005-52	122 DTM				79 bu/ac
					CV %	4.9
					LSD %	8
					Sign. Diff.	yes
					Seeding Date	May 22
					Harvest Date	Oct 5

† Maturity ratings were averaged from the Carman sites in 2022.

## HERBICIDE TOLERANT SOYBEANS ♦ YIELDS BY LOCATION ♦ WESTERN FIRST YEAR ENTRIES


Manitoba Maturity Zone	Variety	Average DTM +/- Check <sup>†</sup>	IDC		2022 Yield % Check		
			Rating	Group	Hamiota	Melita	Souris
Very Early-Season Zone	PV S0007X74	-7	2.1	ST	98	110	101
	PV S0009X84	-3	1.8	ST	92	105	104
Early-Season Zone	PV S004XF13	-2	2.0	ST	100	110	104
	PV S0006X24	-2	1.9	ST	93	97	99
	Akras R2	0	2	ST	100	100	100
	PR150363Z-20	0	2.4	S	105	95	93
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>						
	PR160217Z-06	-3	2.0	ST	82	88	88
	PR170663Z-15	-2	2.1	ST	95	92	97
PR160901Z-16	0	2.1	ST	107	92	94	
Mid-Season Zone	TH83004X	2	1.9	ST	104	106	108
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>						
	EXP001-22	2	1.9	ST	82	97	103
	PR160671Z-20	3	2.5	S	92	93	103
<b>CHECK CHARACTERISTICS</b>							
	Akras R2	119 DTM			65	47	70
							bu/ac
					CV %	6.2	4.5
					LSD %	10	8
					Sign. Diff.	yes	yes
					Seeding Date	May 27	May 26
					Harvest Date	Oct 7	Sep 21
							Oct 7

† Maturity ratings were averaged across the Hamiota, Melita and Souris sites in 2022.

## CONVENTIONAL SOYBEANS ♦ VARIETY DESCRIPTIONS

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check <sup>†</sup>	Long-Term Yield % Check	Site-Years Tested	Hilum Colour	IDC	
							Rating (1–5)	Group
Very Early-Season Zone	000.9	AAC Halli*	-8	88	14	Y	1.8	ST
	00.2	Siberia	-7	92	14	IY	2.0	ST
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>							
	000	OT22-07	-14	76	4	Y	1.8	ST
	000	SVX22T000S32	-10	91	5	IY	2.3	S
Early-Season Zone	00	OT18-09	-7	91	1	Y	2.0	ST
	00.3	OAC Prudence	-4	88	14	Y	1.8	ST
	00.5	Rosser	-3	94	11	IY	2.0	ST
	00.4	Liska	0	100	14	IY	1.9	ST
	00.3	Reynolds	0	91	14	IY	2.1	ST
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>							
	00	OT20-03	-4	93	3	Y	2.1	ST
	00	OT22-08	-2	86	1	Y	2.1	ST
	00	20SS01	-2	95	4	Y	2.1	ST
	000	SVX22T000S33	-1	96	5	IY	2.3	S
	00	CLS14-018.007	-1	96	4	IY	2.4	S
	00	OT20-02	0	97	3	Y	2.0	ST
	00	SVX23T00S46	0	87	4	IY	1.8	ST
	00	20SS02	0	97	4	Y	2.3	S
	Mid-Season Zone	00.7	Abaca	1	112	9	IY	2.1
00.6		Kebek	2	96	14	Y	1.7	T
00.8		Baffin	2	95	11	IY	2.0	ST
00.7		Mozart	2	96	3	Y	1.6	T
00.8		Aurelina	3	103	9	IY	1.9	ST
00.7		Jago	4	101	11	Y	2.3	S
<b>Experimental lines that are being tested/proposed for registration in Canada</b>								
00		OT20-06	1	99	3	Y	2.3	S
00.2		DL22-3012	1	96	4	BR	2.0	ST
00		PR110328Z024	1	86	4	Y	2.1	ST
00		CLS14-018.018	1	93	4	IY	2.1	ST
000		SVX22T000S34	1	105	5	IY	2.0	ST
00.9		OT18-01	2	100	6	Y	1.9	ST
00.6		CLS13-005.008	2	94	3	IY	1.7	T
00		CLS14-001.008	3	90	4	IY	2.1	ST
00		19SS01	3	92	1	IY	2.0	ST
00.4		PR130989Z-26	4	97	1	Y	1.9	ST
00		19SS02	4	104	4	Y	1.9	ST
00.5		CLS14-005.027	4	93	1	IY	2.0	ST
00		SVX22T00S35	4	98	5	IY	2.1	ST
00	CLS14-017.015	4	99	1	IY	2.3	S	
00.7	CLS13-005.014	4	103	3	IY	1.8	ST	
Long-Season Zone	00.7	Maya*	5	88	6	Y	2.1	ST
	00.9	Hana	6	95	3	Y	1.7	T
	00	Stanley	7	99	9	IY	2.0	ST
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>							
	00.5	PR130835Z-50	7	88	1	Y	1.8	ST
	00.7	DL21-3009	7	97	6	Y	2.0	ST
	00.7	DL21-3007	7	102	6	Y	2.0	ST
00.9	DL18.3004	7	101	12	Y	2.1	ST	
<b>CHECK CHARACTERISTICS</b>								
	Liska	124 DTM	49 bu/ac	14 site-years				

<sup>†</sup> 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.

# CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA

		2022 Yield % Check				
Manitoba Maturity Zone	Variety	Average DTM +/- Check <sup>†</sup>	Early Sites <sup>‡</sup>			Core Site
			Arborg	Beausejour	Stonewall	Carman
Very Early-Season Zone	AAC Halli*	-8	87	96	108	80
	Siberia	-7	81	110	96	93
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>					
	OT22-07	-14	62	98	68	75
	SVX22T000S32	-10	-	-	-	82
	OT18-09	-7	-	-	-	91
	OAC Prudence	-4	90	96	89	88
Early-Season Zone	Rosser	-3	82	101	109	92
	Liska	0	100	100	100	100
	Reynolds	0	82	92	93	95
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>					
	OT20-03	-4	-	-	-	90
	OT22-08	-2	-	-	-	86
	20SS01	-2	88	106	98	89
	SVX22T000S33	-1	-	-	-	89
	CLS14-018.007	-1	95	94	105	94
	OT20-02	0	-	-	-	96
	SVX23T00S46	0	79	101	76	88
	20SS02	0	94	102	104	91
	Mid-Season Zone	Abaca	1	110	119	138
Kebek		2	91	98	113	92
Baffin		2	90	102	95	96
Mozart		2	-	-	-	94
Aurelina		3	105	117	93	89
Jago		4	110	101	119	97
<b>Experimental lines that are being tested/proposed for registration in Canada</b>						
OT20-06		1	-	-	-	95
DL22-3012		1	92	105	106	87
PR110328Z024		1	70	89	88	95
CLS14-018.018		1	88	104	93	89
SVX22T000S34		1	-	-	-	99
OT18-01		2	-	-	-	96
CLS13-005.008		2	-	-	-	88
CLS14-001.008		3	78	99	98	89
19SS01		3	-	-	-	92
PR130989Z-26		4	-	-	-	97
19SS02	4	99	119	105	96	
CLS14-005.027	4	95	94	105	93	
SVX22T00S35	4	-	-	-	86	
CLS14-017.015	4	-	-	-	99	
CLS13-005.014	4	-	-	-	92	
Long-Season Zone	Maya*	5	-	-	-	86
	Hana	6	-	-	-	83
	Stanley	7	-	-	-	97
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>					
	PR130835Z-50	7	-	-	-	88
	DL21-3009	7	91	103	94	90
	DL21-3007	7	101	106	101	92
DL18.3004	7	94	106	101	91	
<b>CHECK CHARACTERISTICS</b>						
Liska	124 DTM	67	67	47	77	
			bu/ac			
	CV %	6.6	6.8	10.8	7.7	
	LSD %	10	11	18	11	
	Sign. Diff.	yes	yes	yes	yes	
	Seeding Date	May 26	May 27	Jun 4	May 22	
	Harvest Date	Oct 11	Oct 20	Oct 8	Oct 5	

<sup>†</sup> Maturity ratings were averaged across the Carman, Morris and St. Adolphe core sites over multiple years. <sup>‡</sup> 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.

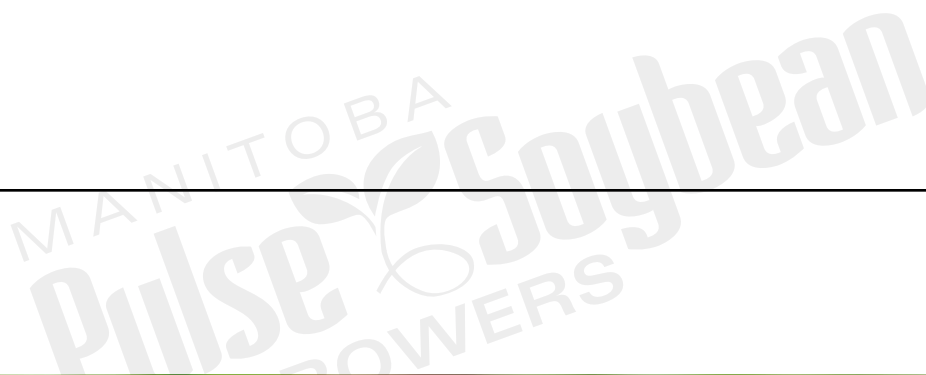


## CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION ♦ WESTERN MANITOBA

Manitoba Maturity Zone	Variety	Average DTM +/- Check <sup>†</sup>	Long-Term Yield % Check	Site-Years Tested	Hilum Colour	2022 Yield % Check		
						Melita	Swan River	
Very Early-Season Zone	Ambella	-10	93	6	BR	108	91	
Early-Season Zone	Siberia	-3	98	8	IY	107	95	
	AAC Halli	-3	98	10	Y	106	101	
	Reynolds	0	101	4	IY	105	103	
Mid-Season Zone	OAC Prudence	0	92	13	Y	95	94	
	Liska	0	100	6	IY	100	100	
	Pamela	1	93	2	IY	109	78	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>							
	PR110328Z024	1	110	2	Y	107	112	
	SVX21T0052	2	107	2	IY	108	106	
<b>CHECK CHARACTERISTICS</b>								
Liska		121 DTM	43 bu/ac	6 site-years		49 bu/ac	51 bu/ac	
					CV %	6.1	6.7	
					LSD %	-	11	
					Sign. Diff.	no	yes	
					Seeding Date	May 26	May 27	
					Harvest Date	Sep 21	Oct 4	

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

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