

# 2020 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 (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                   | 4 = brown dead tissue                            |
| 2 = yellowish leaves               | between green veins                              |
| 3 = green veins with yellow leaves | 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 (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.




# HERBICIDE TOLERANT SOYBEANS ♦ VARIETY DESCRIPTIONS ♦ EASTERN MANITOBA

Manitoba Maturity Zone	Company Maturity Group	Variety	Type	DTM +/- Check†	Yield % Check	Site Years Tested	Hilum Colour	IDC		Resistance	
								Rating (1–5)	Group	SCN	PRR
Very Early-Season Zone	000.7	Fresco R2X	R2X	-10	79	6	BL	2.2	ST	-	-
	00.1	B0011RX	R2X	-9	83	6	TN	1.7	T	-	1k
	000.5	NSC Wynyard RR2X	R2X	-9	78	6	BL	2.3	S	-	1a
	00.1	S001-D8X	R2X	-6	95	6	IY	2.0	ST	-	1c
	00.2	Devo R2X	R2X	-6	90	17	BR	1.9	ST	-	-
Early-Season Zone	000.9	SI 000919XT	R2X	-5	89	6	BL	1.7	T	-	-
	00.1	Torro R2	R2Y	-5	96	15	BL	2.2	ST	-	-
	000.9	RX000918	R2X	-5	97	11	BL	1.8	ST	yes	1c
	00.1	P001A48X	R2X	-4	96	11	TN	1.7	T	-	1c
	00.4	NSC Culross RR2X	R2X	-4	100	11	BL	1.7	T	-	1c
	00.2	NSC Redvers RR2X	R2X	-4	94	11	BL	1.9	ST	yes	1c
	00.1	SI 001XTN	R2X	-3	102	17	BL	1.7	T	yes	1k
	00.1	Prince R2X	R2X	-3	92	17	BL	1.8	ST	-	1k
	00.3	Akras R2	R2Y	-3	102	21	BL	1.7	T	-	1c
	00.4	TH89004 R2X	R2X	-3	89	11	BR	1.8	ST	-	1c
	00.5	S007-Y4	R2Y	-2	105	21	IY	2.0	ST	-	1c
	00.6	S006-M4X	R2X	-2	98	11	IY	1.9	ST	-	1c
	00.3	S003-Z4X	R2X	-2	102	6	BF	1.9	ST	-	1c
	00.3	Renuka R2X*	R2X	-2	102	6	LB	1.7	T	yes	1c
	Mid-Season Zone	00.5	P005A83X	R2X	-1	100	11	BL	1.8	ST	yes
00.5		S005-C9X	R2X	-1	102	6	BL	2.3	S	-	1c
00.6		RX Acron	R2X	-1	107	8	BL	1.8	ST	yes	-
00.3		B0030L1	R2Y	-1	95	11	BR	1.9	ST	-	-
00.3		Sunna R2X	R2X	0	103	17	GR	1.7	T	yes	1c
00.4		Bourke R2X	R2X	0	103	17	BL	1.8	ST	-	1k
00.4		Merritt R2X	R2X	0	104	6	BI	1.9	ST	yes	1c, 1k
00.5		Foote R2	R2X	0	96	21	IY	1.8	ST	-	1c
00.5		P005A27X	R2X	0	101	17	BR	1.9	ST	-	1c
00.7		P007A90R*	RR1	0	100	22	BL	1.7	T	yes	1c
00.6		PS 0068 XR	R2X	0	104	12	BL	1.8	ST	-	1c
00.6		NSC Sperling RR2Y	R2Y	0	107	17	IY	1.7	T	-	1a, 3a
00.6		P006A37X	R2X	0	109	17	BR	1.8	ST	-	1c
00.3		DKB003-29	R2X	0	98	21	BL	1.7	T	yes	-
00.2		DKB002-32	R2X	0	103	6	BR	1.9	ST	yes	1k
00.6		NSC Cartier RR2X	R2X	1	105	6	BL	2.0	ST	-	3a
00.4		B0040L1	R2Y	1	96	17	BR	1.7	T	-	-
00.5		Barker R2X	R2X	1	103	17	BL	1.8	ST	yes	1k
00.3		TH 87003 R2X	R2X	1	96	21	BL	1.8	ST	yes	1c
00.4		PV 16s004 R2X	R2X	1	101	17	BL	1.9	ST	yes	1k
00.6		PV 19s006R2X	R2X	1	92	10	IB	2.0	ST	yes	1c
00.5		DKB005-52	R2X	2	103	22	BL	1.8	ST	yes	1c
00.7		S007-A2XS	R2X	2	110	6	GR	1.9	ST	-	-
00.6		Kudo R2X	R2X	2	105	4	BL	1.7	T	-	-
00.7		P007A08X	R2X	2	110	5	GR	1.8	ST	-	1c
00.6	B0066L1	R2Y	2	98	9	Y	1.9	ST	yes	1k	
00.7	Elmo E3	E3	2	107	4	BR	1.8	ST	yes	-	
00.7	RX00797	R2X	2	97	20	BL	1.7	T	yes	1c	
Long-Season Zone	00.7	PS 0074 R2	R2Y	3	107	17	BR	1.7	T	-	-
	00.7	TH 88007R2X	R2X	3	102	18	BL	1.9	ST	-	1c
	00.7	PV 12s007 R2X	R2X	3	101	21	BL	1.9	ST	-	-
	00.5	TH 88005R2XN	R2X	3	100	18	BL	1.8	ST	yes	1c
	00.9	P00A49X	R2X	4	105	12	BR	1.7	T	yes	1c
	00.7	SI 007XTN	R2X	4	106	14	BL	1.8	ST	yes	1c
	00.6	DKB006-29	R2X	5	104	18	BL	1.7	T	-	1k
	00.8	NSC Winkler RR2X	R2X	5	106	12	BL	1.8	ST	yes	1c
	00.5	PV 10s005 RR2	R2Y	5	107	15	BL	1.9	ST	-	-
	00.9	NSC Aubigny RR2X	R2X	6	98	4	BL	1.6	T	yes	1k
	00.9	TH89009 R2XN	R2X	6	108	8	BL	1.6	T	yes	1k
	00.8	Astro R2	R2Y	7	110	8	BL	1.7	T	-	1k
	00.8	Vidar R2X	R2X	8	104	14	BL	1.7	T	yes	1c

### CHECK CHARACTERISTICS

P007A90R	114	43	22
	DTM	bu/ac	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.

# HERBICIDE TOLERANT SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA

2020 Yield % Check

Manitoba Maturity Zone	Variety	DTM +/- Check†	Early Sites		Core Sites			
			Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe
Very Early-Season Zone	Fresco R2X	-10	78	83	94	74	71	75
	B0011RX	-9	63	97	109	67	74	102
	NSC Wynyard RR2X	-9	74	80	91	72	79	73
	S001-D8X	-6	91	90	104	88	101	97
	Devo R2X	-6	86	87	96	77	89	90
Early-Season Zone	SI 000919XT	-5	64	83	116	85	98	90
	RX000918	-5	80	102	121	89	99	92
	P001A48X	-4	91	99	107	92	88	103
	NSC Culross RR2X	-4	94	99	101	102	104	113
	NSC Redvers RR2X	-4	87	97	114	102	92	95
	SI 001XTN	-3	83	108	123	99	100	111
	Prince R2X	-3	80	93	111	92	85	97
	Akras R2	-3	89	94	99	72	96	110
	TH89004 R2X	-3	72	92	108	89	91	82
	S007-Y4	-2	87	115	122	106	109	122
	S003-Z4X	-2	79	106	122	102	107	102
	Renuka R2X*	-2	91	102	118	98	108	96
	Mid-Season Zone	P005A83X	-1	79	97	115	104	98
S005-C9X		-1	84	111	125	99	99	96
RX Acron		-1	-	-	110	103	104	112
B0030L1		-1	80	95	118	95	95	99
Sunna R2X		0	84	107	113	104	112	103
Bourke R2X		0	82	103	112	101	99	115
Merritt R2X		0	98	108	109	98	102	118
Foote R2		0	83	103	107	106	99	101
P005A27X		0	106	88	100	95	99	107
P007A90R		0	100	100	100	100	100	100
PS 0068 XR		0	-	-	112	111	87	93
NSC Sperling RR2Y		0	105	115	117	101	106	106
P006A37X		0	109	122	123	113	117	112
DKB003-29		0	97	95	115	94	94	103
DKB002-32		0	93	104	106	107	99	110
NSC Cartier RR2X		1	99	105	123	107	93	103
B0040L1		1	88	97	124	103	107	111
Barker R2X		1	-	-	122	109	96	114
TH87003 R2X		1	86	90	98	88	87	99
PV 16s004 R2X		1	86	105	109	105	104	111
PV 19s006R2X	1	93	101	100	89	98	97	
DKB005-52	2	100	104	129	107	105	113	
S007-A2XS	2	103	112	119	97	117	120	
Kudo R2X	2	-	-	104	99	107	111	
B0066L1	2	-	-	110	101	94	102	
Elmo E3	2	-	-	107	102	114	106	
RX00797	2	78	95	108	91	93	99	
Long-Season Zone	PS 0074 R2	3	-	-	106	114	111	113
	TH 88007R2X	3	87	104	112	102	97	102
	PV 12s007 R2X	3	92	98	112	103	93	104
	TH 88005R2XN	3	95	99	122	104	92	92
	P00A49X	4	-	-	120	99	111	106
	SI 007XTN	4	81	98	131	104	91	103
	DKB006-29	5	-	-	127	103	108	107
	NSC Winkler RR2X	5	-	-	114	102	93	113
	TH89009 R2XN	6	-	-	105	95	105	109
	Vidar R2X	8	-	-	112	100	105	97
<b>CHECK CHARACTERISTICS</b>								
P007A90R	114 DTM	55	43	48	58	54	32	
				bu/ac				
	CV %	9.1	6.6	6.9	5.5	7.4	7.8	
	LSD %	13	11	12	9	12	13	
	Sign. Diff.	yes	yes	yes	yes	yes	yes	
	<b>Seeding Date</b>	May 19	May 23	May 26	May 22	Jun 3	May 20	
	<b>Harvest Date</b>	Oct 8	Sep 29	Oct 1	Sep 30	Oct 6	Sep 22	

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

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

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

Manitoba Maturity Zone	Company Maturity Group	Variety	DTM +/- Check†	Yield % Check	Site Years Tested	IDC		Resistance		2020 Yield % Check				
						Rating (1-5)	Group	SCN	PRR	Boissevain	Dauphin	Hamiota	Melita	Swan River
Very Early-Season Zone	000.7	B00071RX	-13	85	7	1.7	T	-	1k	78	77	104	96	85
	000.5	Amirani R2*	-9	90	7	1.8	ST	-	1k	90	91	109	94	80
	00.2	DKB002-32	-7	104	5	1.9	ST	yes	1k	99	103	118	103	94
	000.7	Fresco R2X	-7	92	7	2.2	ST	-	-	80	86	115	94	103
	000.8	NSC Watson RR2Y	-6	94	27	2.1	ST	-	6	100	91	126	102	105
	00.1	B0011RX	-6	108	5	1.7	T	-	1k	112	88	134	96	108
	000.5	NSC Wynyard RR2X	-5	95	5	2.3	S	-	1a	94	83	118	85	96
	000.8	NocomaR2*	-5	85	17	2.0	ST	-	1c	67	78	81	81	74
	000.9	S0009-M2	-5	95	27	2.0	ST	-	6	104	94	122	96	104
Early-Season Zone	000.9	RX000918	-3	96	12	1.8	ST	yes	1c	111	94	127	105	78
	000.5	DKB0005-44	-3	91	12	1.9	ST	yes	1c	93	83	107	98	93
	000.9	Fisher R2X	-3	97	7	1.8	ST	yes	1k	106	97	126	103	72
	00.4	TH89004 R2X	-2	101	7	1.8	ST	-	1c	114	95	115	96	96
	00.1	S001-D8X	-2	108	5	2.0	ST	-	1c	106	97	116	101	124
	00.1	Torro R2	-1	95	17	2.2	ST	-	-	107	90	116	101	95
	000.9	PV 15s0009 R2X	-1	99	11	2.1	ST	yes	1c	104	97	123	97	109
	00.3	P003A97X	-1	98	7	1.9	ST	yes	1k	90	100	120	97	88
	00.3	S003-Z4X	-1	107	7	1.9	ST	-	1c	100	102	134	104	106
	00.1	P001A48X	-1	100	7	1.7	T	-	1c	96	98	124	93	108
	00.3	Mahony R2	-1	100	29	2.9	S	-	-	106	96	123	101	-
	00.1	SI 001XTN	-1	97	12	1.7	T	yes	1k	85	104	116	106	79
	00.5	S007-Y4	-1	102	30	2.0	ST	-	1c	107	112	136	103	-
	00.1	Prince R2X	-1	97	11	1.8	ST	-	1k	98	95	129	102	107
	00.2	Devo R2X	-1	89	7	1.8	ST	-	-	84	80	112	93	78
	00.3	Renuka R2X*	0	106	6	1.7	T	-	1c	106	100	129	105	-
	00.5	TH 88005R2XN	0	95	9	1.8	ST	yes	1c	100	103	98	100	-
	00.5	P005A83X	0	106	7	1.8	ST	yes	1c	104	105	126	100	112
	00.2	NSC Redvers RR2X	0	97	10	1.9	ST	yes	1c	118	92	125	106	-
	00.3	Akras R2	0	100	31	1.7	T	-	1c	100	100	100	100	100
000.9	SI 000919XT	0	100	5	1.7	T	-	-	91	89	122	104	89	
000.9	DKB0009-89	0	99	12	1.9	ST	yes	1c, 1k	113	101	117	106	98	
00.3	NSC Newton RR2X	0	86	15	2.0	ST	-	-	93	85	103	92	-	
Mid-Season Zone	00.3	Sunna R2X	1	102	10	1.7	T	yes	1c	98	104	135	106	-
	00.5	S005-C9X	1	112	4	2.3	S	-	1c	112	98	130	106	-
	00.3	TH 87003 R2X	1	95	18	1.8	ST	yes	1c	84	86	96	99	74
	00.3	B0030L1	2	94	7	1.9	ST	-	-	88	93	111	95	83
	00.4	Bourke R2X	2	103	6	1.9	ST	-	1k	104	107	116	101	-
	00.6	P006A37X	2	108	11	1.8	ST	-	1c	107	112	124	107	110
	00.6	PS 0068 XR	3	110	4	1.8	ST	-	1c	114	94	120	108	-
	00.5	P005A27X	3	100	12	1.9	ST	-	1c	85	98	111	103	102
	00.4	Merritt R2X	3	106	4	1.9	ST	yes	1c, 1k	91	103	120	108	-
	00.4	PV 16s004 R2X	3	99	10	1.8	ST	yes	1k	109	100	116	95	-
	00.5	Kudo R2X	3	102	6	1.7	T	-	-	110	99	116	97	-
<b>CHECK CHARACTERISTICS</b>		Akras R2	124	54	31					48	45	55	66	44
			DTM	bu/ac	site years					bu/ac				
									CV %	13	4.3	4.4	3.8	8.2
									LSD %	21	7	8	6	13
									Sign. Diff.	yes	yes	yes	yes	yes
									Seeding Date	May 28	May 15	May 16	May 19	May 25
									Harvest Date	Sep 26	Oct 2	Oct 1	Sep 18	Oct 13

† Maturity ratings were averaged across the western 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.

## HERBICIDE TOLERANT SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN FIRST YEAR ENTRY LEVEL

Manitoba Maturity Zone	Variety	DTM +/- Check <sup>†</sup>	2020 Yield % Check		
			Carman	Morris	St. Adolphe
Very Early-Season Zone	Halo R2X	-7	96	72	86
	Aveta R2X	-6	113	77	60
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>				
	CFS20.1.R2	-9	86	58	70
Early-Season Zone	SI 000920XT	-5	117	86	92
	Young R2X	-5	121	91	90
	Hart R2X	-3	131	109	98
	Mikado R2X	-2	106	99	80
Mid-Season Zone	PV 22S002 R2X	-1	116	99	101
	P007A90R	0	100	100	100
	Mao R2X	2	122	108	101
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>				
	CFS20.2.R2	-1	106	80	98
	PV EXP 20-S4	0	130	103	107
	EXP00520XR	2	122	97	95
Long-Season Zone	SI 00820XTN	3	126	105	92
	NSC EXP004X	3	131	103	80
	SI 0220XT	4	110	91	109
	TH81007 R2XN	4	121	99	88
	Bronco R2X	4	102	86	100
	SI 0120XTN	5	119	108	85
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>				
	TH79009E	3	127	108	104
<b>CHECK CHARACTERISTICS</b>					
	P007A90R	115 DTM	43	59	35
				bu/ac	
		CV %	7.2	5.3	6.5
		LSD %	14	8	10
		Sign. Diff.	yes	yes	yes
		<b>Seeding Date</b>	May 26	May 22	May 20
		<b>Harvest Date</b>	Oct 1	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 ENTRY LEVEL

Manitoba Maturity Zone	Variety	DTM +/- Check <sup>†</sup>	2020 Yield % Check		
			Hamiota	Melita	
Very Early-Season Zone	DKB0003-24	-6	115	91	
	Mynarski R2X	-6	118	97	
	Halo R2X	-5	119	90	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>				
	PV EXP 20-S2	-5	123	93	
	PV EXP 20-S1	-4	113	95	
Early-Season Zone	NSC Watson RR2Y	-2	111	96	
	Inferno R2X	-2	106	62	
	S0009-F2X	-2	122	100	
	SI 000920XT	-2	116	88	
	Aveta R2X	-1	108	90	
	Major R2X	0	128	95	
	Akras	0	100	100	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>				
	CFS20.1.R2	-1	86	86	
	CFS20.2.R2	-1	108	90	
	Hart R2X	2	135	101	
Mid-Season Zone	DKB0008-87	3	128	104	
	Mikado R2X	3	118	103	
	PV 22S002 R2X	3	103	95	

continued ►



Manitoba Maturity Zone	Variety	DTM +/- Check†	2020 Yield % Check		
			Hamiota	Melita	
Mid-Season Zone	Young R2X	3	114	98	
	Bronco R2X	6	88	86	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>				
	CFS20.3 R2	3	111	100	
	PV EXP 20-S4	5	106	100	
	EXP00520XR	5	109	96	
<b>CHECK CHARACTERISTICS</b>					
	Akras R2	108 DTM	52	64	
			bu/ac		
			CV %	5.8	
			LSD %	11	
			Sign. Diff.	yes	
			Seeding Date	May 16	
			Harvest Date	Oct 1	
				May 19	
				Sep 18	

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

### CONVENTIONAL SOYBEANS ♦ VARIETY DESCRIPTIONS

Manitoba Maturity Zone	Company Maturity Group	Variety	DTM +/- Check†	Yield % Check	Site Years Tested	Hilum Colour	IDC		
							Rating (1-5)	Group	
Early-Season Zone	000.8	Norfolk	-6	94	20	IY	2.3	S	
	000.7	Fjord	-4	95	12	IY	1.9	ST	
	000.9	AAC Halli*	-3	101	39	Y	2.1	ST	
Mid-Season Zone	00.2	Siberia	-2	110	11	IY	1.9	ST	
	00.3	OAC Prudence	0	100	136	Y	1.6	T	
	00.3	Maxus	0	99	18	IY	2.0	ST	
	00.3	Reynolds	2	107	17	IY	2.3	S	
	00.4	Liska*	4	118	6	IY	2.3	S	
	00.6	Kebek	6	100	17	Y	1.8	ST	
	00.7	Abaca	6	127	3	IY	1.8	ST	
	00.9	DH863	6	96	25	IY	2.3	S	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>								
		000	SVX21T000S1	1	110	6	IY	2.1	ST
		00	SVX21T00S2	3	108	6	IY	1.7	T
		00.7	CER10-11.97	5	101	6	IY	1.9	ST
	00.8	CER14-640	5	106	6	IY	2.1	ST	
	00.3	PR130167Z1-02	6	111	3	BR	1.8	ST	
Long-Season Zone	00.8	Meteor	7	100	17	IY	2.3	S	
	00.8	Aurelina	8	116	3	IY	1.9	ST	
	00.6	Maya*	9	101	3	IY	1.7	T	
	00	Stanley	10	113	6	IY	2.1	ST	
	0.3	Astor	12	114	12	Y	2.0	ST	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>								
		00.7	CER14-142	9	111	6	Y	2.1	ST
	00.9	DL18.3004	11	117	6	Y	2.1	ST	
<b>CHECK CHARACTERISTICS</b>									
	OAC Prudence	112 DTM	47 bu/ac	136 site years					

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

\* (C) 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 Pulse Soybean GROWERS

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## CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA

2020 Yield % Check

Manitoba Maturity Zone	Variety	DTM +/- Check†	Early Sites			Core Sites			
			Arborg	Beausejour	Stonewall	Carman	Morris	Portage	
Early-Season Zone	Norfolk	-6	84	63	85	97	95	106	
	Fjord	-4	92	87	87	111	100	92	
	AAC Halli*	-3	90	89	113	100	98	103	
Mid-Season Zone	Siberia	-2	106	97	95	121	116	115	
	OAC Prudence	0	100	100	100	100	100	100	
	Maxus	0	-	-	-	106	103	98	
	Reynolds	2	94	94	109	107	107	100	
	Liska*	4	-	-	-	121	118	110	
	Kebek	6	99	87	92	111	118	107	
	Abaca	6	-	-	-	133	134	117	
	DH863	6	-	-	-	99	99	87	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>								
		SVX21T00S1	1	112	97	104	132	103	112
	SVX21T00S2	3	105	108	105	126	105	103	
	CER10-11.97	5	104	103	99	99	108	91	
	CER14-640	5	103	110	105	103	112	100	
	PR130167Z1-02	6	-	-	-	124	110	103	
Long-Season Zone	Meteor	7	100	102	99	96	97	88	
	Aurelina	8	-	-	-	127	117	108	
	Maya*	9	-	-	-	105	102	96	
	Stanley	10	-	-	-	109	112	91	
	Astor	12	-	-	-	104	110	97	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>								
		CER14-142	9	110	116	116	110	121	95
	DL18.3004	11	-	-	-	114	112	99	
<b>CHECK CHARACTERISTICS</b>									
	OAC Prudence	112 DTM	44	52	32	40	51	52	
						bu/ac			
		CV %	7.1	9.8	6.6	8.8	4.4	6.9	
		LSD %	12	16	11	16	8	11	
		Sign. Diff.	yes	yes	yes	yes	yes	yes	
		Seeding Date	May 15	May 20	May 23	May 26	May 22	Jun 3	
		Harvest Date	Sep 29	Oct 7	Sep 24	Oct 1	Sep 29	Oct 6	

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

\* (P) 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	DTM +/- Check†	Yield % Check	Site Years Tested	Hilum Colour	2020 Yield % Check		
						Melita	Swan River	
Early-Season Zone	Ambella	-9	98	2	BR	95	103	
	AAC Halli*	-3	93	6	Y	103	82	
	Fjord	-3	95	6	IY	95	105	
Mid-Season Zone	Siberia	-2	103	4	IY	102	109	
	Liska*	-1	111	2	IY	100	112	
	OAC Prudence	0	100	9	Y	100	100	
	Maxus	0	95	6	Y	93	100	
	Maya*	4	97	2	IY	88	89	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>							
		PR130933Z-05	-1	92	2	Y	95	89
	PR130167Z1-02	4	90	2	BR	98	81	
<b>CHECK CHARACTERISTICS</b>								
	OAC Prudence	118 DTM	36	9		39	31	
			bu/ac	site years		bu/ac		
		CV %				4.1	9.2	
		LSD %				7	15	
		Sign. Diff.				yes	yes	
		Seeding Date				May 21	Jun 4	
		Harvest Date				Sep 17	Oct 13	

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

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

