

2019 PULSE AND SOYBEAN VARIETY GUIDE



This publication features the results from MPSG-sponsored trials.

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The independent evaluation of soybean, dry bean, field pea, lentil and faba bean varieties found within this publication were made possible by your continued support through the Manitoba Pulse & Soybean Growers (MPSG) check-off. The objective of these trials is to provide the Manitoba pulse and soybean industry with independent, scientific information on variety performance and agronomic characteristics.

Lentil and field pea variety evaluations were coordinated with the Saskatchewan Regional Variety Testing Program. Lentil, field pea and faba bean variety evaluations were conducted by MCVET and partially sponsored by MPSG.

SOYBEANS

Herbicide tolerant soybean varieties were evaluated at 12 locations in 2019, reported by eastern and western regions in Manitoba. In eastern Manitoba, there are short-, mid- and long-season locations.

The long-season site in 2019 was Rosebank, where mid- and late-season varieties were tested. Mid-season sites included Carman, Morris, Portage la Prairie and St. Adolphe. These sites are also referred to as core sites due to testing of all varieties at these locations.

Short-season sites included Arborg, Beausejour and Stonewall, where early- and mid-season varieties were tested. In western Manitoba, sites included Dauphin, Hamiota, Melita and Swan River. Conventional (non-GM) soybean varieties

were tested at all sites in eastern Manitoba and at Melita and Swan River.

All soybean varieties are reported by very early-, early-, mid- and long-season maturity zones. Western Manitoba trials do not host long-season varieties, as they are generally ill-suited to the region.

DRY BEANS

Variety evaluations were conducted under wide- (>60 cm) and narrow-row (<40 cm) trials, and are reported separately in this guide.

Wide-row trials were also conducted at four locations – Boissevain, Melita, Morden and Portage la Prairie.

Narrow-row trials were conducted at five locations – Carberry, Melita, Minto, Morden, Portage la Prairie and Stonewall. Dry bean varieties are also reported by market class – navy, black, pinto, pink, Great Northern, dark red kidney, light red kidney, cranberry and Flora de Janeiro.

LENTILS

Trials were located at two sites in Manitoba – Hamiota and Melita. Lentil varieties are reported by extra small green, small green, medium green, large green, French green, Spanish brown, extra small red, small red, large red and green cotyledon market classes.

FIELD PEAS

Trials were conducted at eight locations in Manitoba, including Arborg, Boissevain, Hamiota, Melita, Portage la Prairie, Roblin, Swan River and Thornhill. Field pea varieties are reported by yellow, green, maple and forage market classes.

FABA BEANS

Trials were conducted at two locations in Manitoba – Roblin and Stonewall.

USING THIS GUIDE

There are two types of data tables found in this guide – *Variety Descriptions* and *Yields by Location*. Variety description tables summarize long-term data, including maturity, yield and agronomic characteristics (e.g., disease resistance, lodging score). Yield by location tables summarize yield data from the current year at each location.

All variety trials were randomized with three replicates to allow for statistical analysis.

Statistical yield differences can be evaluated using only single-site year data, found in all *Yields by Location* tables. To compare yields, look at the least significant difference (LSD) value at the bottom of these tables. The LSD value represents the yield quantity (%) by which two varieties must differ, to conclude with 95% confidence that a true yield difference exists due to genetics.

For more information on how to use these tables, refer to the variety table keys in each section.

We acknowledge the contributions of all companies that submitted varieties and partners involved in planting, maintenance, note-taking, harvesting and data organization. Special thanks to staff at Manitoba Agriculture and Resource Development, AAFC, WADO, PCDF, PESAI, CMCDC and the private research companies that play an integral role in making this publication possible.

Key for All Variety Tables

Yield % Check – The average yield across all site years that the variety has been tested, relative to the check variety.

Site Years Tested – The total number of individual site years that a variety has been tested. For example, if a variety was tested at five sites for two years, the total site years would be 10. The greater the number, the more a variety has been tested under a greater range of environments. A variety is typically tested at two to five sites per year.

TKW (g/1000 seeds) – The thousand kernel weight, referring to the seed weight in grams per 1000 seeds.

Resistance Rating – VG = very good G = good F = fair
P = poor VP = very poor

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.

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).

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

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.

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



IDC Rating 1



IDC Rating 1.7



IDC Rating 2.1



IDC Rating 2.5



IDC Rating 3.5



IDC Rating 4.0

HERBICIDE TOLERANT SOYBEANS ♦ VARIETY DESCRIPTIONS ♦ EASTERN MANITOBA

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	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	-	-	
Early-Season Zone	000.9	RX000918	R2X	-6	103	2	BL	1.7	T	yes	1c	
	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 ►

HERBICIDE TOLERANT SOYBEANS ♦ VARIETY DESCRIPTIONS continued

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
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	44	13					
				DTM	bu/ac	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		Core Sites		
				Arborg‡	Carman	Morris*	Portage*	St. Adolphe*
Very Early-Season Zone	000.8	LS TRI8XT	-10	92	81	84	69	67
	000.5	NocomaR2	-9	99	91	76	74	74
	000.9	S0009-M2	-9	101	82	93	88	83
	00.4	TH89004 R2X	-8	101	88	94	86	75
	000.7	PS 00078 XRN	-7	92	94	79	96	61
	00.2	Devo R2X	-6	90	77	94	90	75
	000.9	RX000918	-6	111	95	100	94	85
Early-Season Zone	00.1	P001A48X	-5	105	92	93	99	82
	00.1	PV 11s001 RR2	-5	95	73	69	78	63
	000.7	Karpo R2	-5	103	106	108	99	99
	00.2	RX00218	-5	88	82	78	91	70
	000.2	Notus R2	-5	110	104	100	96	87
	00.3	P003A97X	-5	108	90	98	81	76
	00.1	Torro R2	-5	100	87	99	68	73
	00.2	NSC Redvers RR2X	-4	95	98	85	78	74
	000.9	PV 15s0009 R2X	-4	102	97	91	78	73
	00.4	NSC Culross RR2X	-3	104	92	108	98	86
	00.1	LS 001XT	-3	105	98	98	91	83
	00.5	Lono R2	-3	117	100	104	99	97
	Mid-Season Zone	00.3	Dinero R2X	-2	96	87	92	80
00.4		TH 32004R2Y	-2	104	100	94	91	80
00.1		Prince R2X	-2	94	97	88	88	76
00.6		S006-M4X	-2	103	101	101	102	83
00.5		S007-Y4	-2	118	100	124	100	95
00.5		P005A83X	-1	112	96	96	98	94
00.5		S006-W5	-1	89	96	96	90	70
00.3		Mahony R2	-1	92	95	91	94	84
000.9		Akras R2	-1	130	105	114	96	106
00.3		B0030L1	-1	94	92	89	91	89
00.5		P005A27X	-1	103	105	101	93	86
00.1		Sunna R2X	0	112	94	99	101	90
00.7		P007A90R	0	100	100	100	100	100
00.4		Bourke R2X	0	105	100	103	95	96
00.3		DKB003-29	0	91	97	89	90	82
00.6		NSC Sperling RR2Y	0	117	104	110	104	88
00.6		PS 0068 XR	0	-	89	104	111	103
00.5		Foote R2	0	88	103	95	93	82
00.3		TH 33003R2Y	1	102	99	96	104	83
00.3		PS 0044 XRN	1	101	98	107	92	84
00.5		Gray R2	1	-	102	95	97	88
00.6		P006A37X	1	109	110	100	102	88
00.6		Dugaldo R2X	1	-	102	100	105	83
00.5	TH 33005R2Y	1	92	103	106	103	87	

continued ►

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	2019 Yield % Check				
				Early Sites		Core Sites		
				Arborg‡	Carman	Morris*	Portage*	St. Adolphe*
Mid-Season Zone	00.3	TH 87003 R2X	1	99	94	98	82	98
	00.4	B0040L1	2	92	100	79	85	65
	00.7	P007A08X	2	117	110	111	108	99
	00.5	Barker R2X	2	-	96	104	95	77
	00.4	PV 16s004 R2X	2	100	102	109	95	92
	00.5	DKB005-52	2	95	95	104	97	89
Long-Season Zone	00.6	DKB006-99	2	80	104	96	99	81
	00.8	PV 14s008 RR2	3	-	116	103	101	89
	00.5	LS Eclipse	3	-	105	106	106	98
	00.7	TH 88007R2X	3	-	109	109	103	104
	00.6	B0066L1	3	78	115	102	97	78
	00.7	RX00797	4	99	97	95	105	85
	00.5	TH 88005R2XN	4	-	95	107	100	78
	00.7	PV 12s007 R2X	4	-	106	98	96	90
	00.9	NSC Jordan RR2Y	4	-	108	107	111	91
	00.7	PS 0074 R2	4	-	113	96	99	101
	00.7	LS 007XT	4	-	107	112	111	100
	00.6	DKB006-29	5	83	108	112	99	91
	00.8	NSC Winkler RR2X	5	-	110	94	106	101
	00.9	P00A49X	5	-	112	117	101	97
	00.5	PV 10s005 RR2	5	-	114	114	113	81
	00.5	LS Mistral	5	-	116	118	117	105
	00.6	PRO 2525R2	5	-	99	109	103	95
	00.9	NSC Aubigny RR2X	6	-	103	100	99	88
	0.1	Hydra R2	6	-	108	143	112	103
	00.8	PRO 03X74	7	-	113	106	108	84
	00.8	Astro R2	7	-	116	113	102	100
	00.9	P00A75X	7	-	116	121	102	90
00.9	PRO 2535R2	8	-	113	121	105	93	
00.5	Vidar R2X	9	-	109	119	108	106	
00.9	TH89009 R2XN	9	-	121	132	104	104	
00.9	PRO 2625 R2	14	-	120	141	116	99	
Experimental lines that are being tested/proposed for registration in Canada								
	00.6	PV 19-S2	4	-	97	75	88	71
CHECK CHARACTERISTICS								
		P007A90R	115	41	38	29	37	29
			DTM				bu/ac	
			CV %	8.2	6.4	6.3	8.6	7.2
			LSD %	13	10.4	10	14	10
			Sign. Diff.	yes	yes	yes	yes	yes
			Seeding Date	May 21	May 23	May 28	May 28	May 20
			Harvest Date	Oct 9	Oct 8	Nov 5	Nov 5	Nov 4

† 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. * Days to maturity and yields from 2019 were not factored into long-term averages due to harvest delays.

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		Resistance		2019 Yield % Check	
						Rating (1-5)	Group	SCN	PRR	Hamiota	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 ►

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

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	Yield % Check	Site Years Tested	IDC		Resistance		2019 Yield % Check		
						Rating (1-5)	Group	SCN	PRR	Hamiota	Melita	
	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	
Early-Season Zone	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	

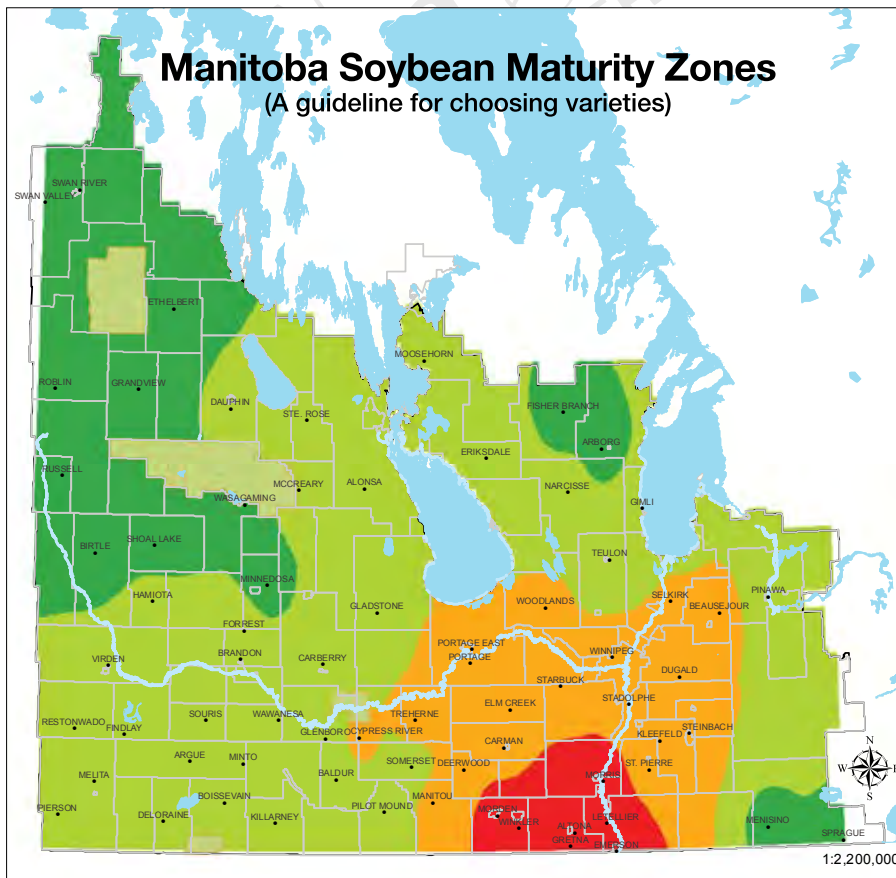
† Maturity ratings were averaged across the Dauphin, Hamiota and Melita sites over multiple years.

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

2019 Yield % Check

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	Carman	Morris	St. Adolphe	
Very Early-Season Zone	Varuna R2	-15	89	89	70	
	Amirani R2	-15	90	92	80	
	CP000719RX	-12	80	79	77	
	LS 001E020	-7	75	71	59	
	Experimental lines that are being tested/proposed for registration in Canada					
Early-Season Zone	PV 19-S1	-9	80	87	85	
	SVX0009X95	-5	92	98	89	
Mid-Season Zone	S003-Z4X	-4	113	97	89	
	Renuka R2X	-3	107	89	87	
	RX Cedo	-1	92	89	89	
	Merritt R2X	-1	112	101	95	
	TH 33003R2Y	0	105	98	95	
	P007A90R	0	100	100	100	
	RX Acron	0	93	98	93	
	CP00419RX	0	99	98	97	
	Experimental lines that are being tested/proposed for registration in Canada					
	Long-Season Zone	NSC EXP002E	-1	73	64	59
NSC EXP006X		1	122	104	86	
CBZ517A5-C0DNN		2	113	105	104	
CP00519RX		3	105	106	92	
Experimental lines that are being tested/proposed for registration in Canada						
CHECK CHARACTERISTICS	EXP005B	3	108	92	103	
	SVX06X93N	15	142	124	96	
P007A90R		115	31	31	29	
		DTM		bu/ac		
		CV %	8.4	5.7	6.5	
		LSD %	14	9	9	
		Sign. Diff.	yes	yes	yes	
		Seeding Date	May 23	May 28	May 20	
		Harvest Date	Oct 8	Nov 5	Nov 4	

† Maturity ratings were averaged across the Carman, Morris and St. Adolphe core sites in 2019.



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.

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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)	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	
	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	
Mid-Season Zone	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	48	127				
			DTM	bu/ac	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		Core Sites			
				Arborg‡	Beausejour*	Carman	Morris*	St. Adolphe*	
Early-Season Zone	00.3	AAC Dale	-3	109	102	115	108	113	
	000.9	AAC Halli	-3	103	108	97	111	105	
	000.6	Siberia	-2	113	112	110	114	100	
	Experimental lines that are being tested/proposed for registration in Canada								
	00.2	SVX17T000S1	-9	111	93	104	94	106	
Mid-Season Zone	00.2	OT 16-01	-4	98	112	116	103	110	
	00.2	OT18-09	-2	109	136	119	108	110	
	00.3	Maxus	0	-	-	117	102	98	
	00.3	OAC Prudence	0	100	100	100	100	100	
	00.5	OAC Morden	4	-	-	128	110	112	
Mid-Season Zone	00.6	AAC Mandor	5	131	94	120	114	109	
	00	Kebek	5	83	94	115	104	90	

continued ►

CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA continued

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	2019 Yield % Check					
				Early Sites		Core Sites			
				Arborg‡	Beausejour*	Carman	Morris*	St. Adolphe*	
	00.8	DH401	6	76	112	119	98	96	
	00.9	DH863	6	-	-	114	98	99	
	00.8	Meteor	6	95	110	109	105	108	
	00.6	Opus	6	-	-	107	97	105	
	Experimental lines that are being tested/proposed for registration in Canada								
Mid-Season Zone	00.5	SVX17T00S15	-1	100	115	109	109	105	
	00.2	SVX19T00S1	-1	80	95	102	100	103	
	00.7	SVX17T0S12	1	98	95	116	115	111	
	00	SC10-11.97	2	92	106	119	101	97	
	00.2	PR110196Z012	3	-	-	138	108	115	
	00.6	OT 16-06	4	-	-	125	116	103	
	00.5	DL 18.3001	4	106	123	100	112	101	
	000.8	PR110187Z017	6	-	-	117	118	117	
	00.7	SEMS 14-142	6	-	-	132	113	123	
	00.8	OT 18-01	6	-	-	127	118	122	
	00.9	SVX17T0S15	6	92	98	130	110	103	
	00.7	SEMS 14-640	6	-	-	123	93	98	
	000	SVX20T000S2	6	87	96	98	103	107	
	Long-Season Zone	00.5	Bennie	7	-	-	119	107	114
00.9		Jari	7	-	-	120	114	119	
0.3		Astor	12	-	-	139	126	112	
0.3		Panorama	14	-	-	127	117	96	
		Experimental lines that are being tested/proposed for registration in Canada							
		00	PR110212Z046	7	-	-	126	116	110
		00	SC10-13.70	8	-	-	113	114	107
		00.9	OT 18-14	8	-	-	144	152	138
		0.1	SVX17T00S23	8	-	-	144	120	122
		00.8	OT 18-12	8	-	-	140	119	126
		00	SC11-70.B33	9	83	99	110	116	107
		00	SVX19T00S3	9	54	120	125	111	119
		0.4	DL18.3005	10	-	-	156	114	116
		0.3	DL18.3004	11	-	-	134	135	125
	00.8	OT19-01	12	-	-	153	119	114	
	0.1	SVX20T0S11	17	-	-	121	149	118	
CHECK CHARACTERISTICS									
	OAC Prudence	115	29	34	36	31	23		
		DTM	bu/ac						
		CV %	11.4	8.3	7.5	6.5	8.5		
		LSD %	18	15	15	12	15		
		Sign. Diff.	yes	yes	yes	yes	yes		
		Seeding Date	May 21	May 21	May 23	May 28	May 20		
		Harvest Date	Oct 8	Nov 5	Oct 8	Nov 5	Nov 3		

† 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. * Days to maturity and yields from 2019 were not factored into long-term averages due to harvest delays.

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	Swan River
							Early-Season Zone	00.4
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.

Key for Dry Bean Variety Tables

DTM +/- Check – The number of days from planting to full maturity (90% of plants ready for harvest). 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.

Lodging (1–5) – The lodging rating at harvest on a scale of one to five. The greater the value, the more lodged the crop. For example, 1 = standing upright, 5 = flat on the ground.

Plant Height (cm) – The distance measured from the soil surface to the top of the plant at flowering.

Pod Height (% >5 cm) – The visual estimation of the % of pods greater than 5 cm from the soil surface at harvest.

CBB Severity (0–5) – The average visual rating of common bacterial blight (CBB) on 10 plants per plot at the yellow pod (R7) stage.

0 = No observable lesions or other signs of infection

1 = < 5% of plant area (leaf and stem hypocotyls) diseased

2 = 5–10% of plant area diseased

3 = 10–25% of plant area diseased

4 = 25–50% of plant area diseased

5 = 50–100% of plant area diseased or death of seedling

CBB Incidence (%) – The average visual rating of % leaf tissue infected by CBB on 10 plants per plot at the R7 stage.

WM Incidence (%) – The average visual rating of the % of plants infected by white mould (WM) on 10 plants per plot at full maturity (R8).

DRY BEANS ♦ VARIETY DESCRIPTIONS

Market Class/ Variety	DTM +/- Check	Yield % Check	Site Years Tested	TKW (g/1000 seeds)	Lodging (1–5)	Plant Height (cm)	Pod Height (% > 5 cm)	CBB Severity (0–5)	CBB Incidence (%)	WM Incidence (%)
NAVY	+/- T9905	% T9905								
Portage	-5	91	32	208	1	48	94	2	12	0
AAC Shock	-4	99	4	222	1	51	92	2	24	0
Indi	-3	100	24	195	1	53	93	3	18	0
AAC Argosy	-2	103	8	216	2	53	94	2	23	0
Bolt	-2	92	15	213	1	50	93	2	21	0
Nautica	-1	90	14	169	1	51	95	2	27	0
T9905	0	100	32	219	1	50	91	3	19	0
Medalist	2	96	2	222	2	56	88	3	20	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
S09-27C	-4	86	2	228	2	54	90	3	15	0
15094	0	100	2	225	2	55	88	3	22	0
15095	4	109	2	231	3	60	86	3	32	0
CHECK CHARACTERISTICS										
T9905	100 DTM	2389 lbs/ac	32 site years							
BLACK	+/- Eclipse	% Eclipse								
CDC Blackstrap	-5	89	13	231	1	41	93	2	15	0
Ace	-2	84	2	226	2	53	93	3	20	0
CDC Jet	-1	88	39	207	1	47	95	2	19	0
CDC Superjet	-1	87	27	211	2	49	96	2	19	0
Black Tails	0	90	2	223	2	55	89	3	32	0
Eclipse	0	100	41	213	1	52	91	3	28	0
Zenith	3	96	6	220	1	51	93	3	33	0
Zorro	4	90	4	188	1	50	92	3	33	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
13505	0	99	8	182	1	55	94	2	28	0
W11-02-152	0	83	2	234	2	58	88	3	25	0
GTS1103	2	94	12	200	2	49	94	2	10	0
CHECK CHARACTERISTICS										
Eclipse	97 DTM	2481 lbs/ac	41 site years							
PINK	+/- Floyd	% Floyd								
Floyd	0	100	27	340	4	46	63	3	42	0
CHECK CHARACTERISTICS										
Floyd	92 DTM	2400 lbs/ac	27 site years							
PINTO	+/- Windbreaker	% Windbreaker								
SV6139GR	-2	103	21	363	2	55	87	3	20	0
Vibrant	-2	106	13	353	2	65	85	3	36	0
SV6533GR	-1	97	9	423	3	55	78	3	22	0

continued ▶

DRY BEANS ♦ VARIETY DESCRIPTIONS continued

Market Class/ Variety	DTM +/- Check	Yield % Check	Site Years Tested	TKW (g/1000 seeds)	Lodging (1-5)	Plant Height (cm)	Pod Height (% > 5 cm)	CBB Severity (0-5)	CBB Incidence (%)	WM Incidence (%)
Windbreaker	0	100	52	374	3	52	81	3	25	0
Cowboy	0	121	2	410	2	62	88	3	25	0
Monterrey	2	107	16	391	2	66	86	3	22	0
La Paz	4	98	17	333	2	61	84	3	36	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
18-376	1	104	2	441	2	64	88	3	33	0
18-456	1	94	2	515	3	60	80	3	32	0
18-283	2	97	2	493	3	66	83	3	17	0
ND Palomino	2	114	2	438	4	63	77	3	33	0
CHECK CHARACTERISTICS										
Windbreaker	94 DTM	2652 lbs/ac	52 site years							
GREAT NORTHERN										
	+/- Pink Panther	% Pink Panther								
Aries	0	139	10	405	3	44	85	3	40	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
14164	-3	129	3	389	2	52	89	2	31	0
Powderhorn	-3	133	8	363	3	47	84	3	25	3
13151	-2	122	3	416	2	48	87	3	32	2
Beryl R	-2	112	32	407	4	42	78	2	33	2
13172	-1	136	3	353	2	51	92	3	26	4
DARK RED KIDNEY										
	+/- Pink Panther	% Pink Panther								
Red Hawk	4	67	15	525	2	36	86	3	28	0
Montcalm	6	81	5	460	2	47	86	4	32	0
Dynasty	7	104	3	539	2	61	84	3	34	0
LIGHT RED KIDNEY										
	+/- Pink Panther	% Pink Panther								
Big Red	0	99	21	540	2	41	87	3	34	0
Pink Panther	0	100	53	544	1	49	89	3	39	0
CHECK CHARACTERISTICS										
Pink Panther	99 DTM	1972 lbs/ac	53 site years							
CRANBERRY										
	+/- Etna	% Etna								
Etna	0	100	55	545	1	41	84	3	38	0
AAC Scotty	5	111	14	526	1	41	85	3	26	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
SV3709GC	-4	109	6	568	1	39	87	4	47	0
CR10875	-1	92	2	524	1	37	90	3	43	0
Krimson	-1	100	18	555	3	42	82	3	29	0
CHECK CHARACTERISTICS										
Etna	99 DTM	1757 lbs/ac	55 site years							

DRY BEANS ♦ YIELDS BY LOCATION ♦ WIDE ROW

Market Class/ Variety	DTM +/- Check	2019 Yield % Check	
		Carman	Winkler
NAVY			
	+/- T9905	% T9905	
Portage	-5	94	85
Indi	-3	103	108
T9905	0	100	100
Medalist	2	99	95
Varieties that are registered in the US or being tested or proposed for registration in Canada			
S09-27C	-4	98	80
15094	0	91	105
15095	4	102	112
CHECK CHARACTERISTICS			
T9905	100 DTM	1467 lbs/ac	2963
	CV %	9.2	9.9
	LSD %	15	18
	Sign. Diff.	yes	yes
	Seeding Date	May 30	May 29
	Harvest Date	Oct 8	Sep 19

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Market Class/ Variety	DTM +/- Check	2019 Yield % Check	
		Carman	Winkler
BLACK	+/- Eclipse		% Eclipse
Ace	-2	107	76
Black Tails	0	112	82
Eclipse	0	100	100
Zenith	3	97	92
Varieties that are registered in the US or being tested or proposed for registration in Canada			
W11-02-152	0	105	75
CHECK CHARACTERISTICS			
Eclipse	97	1390	3785
	DTM		lbs/ac
	CV %	9.2	9.9
	LSD %	16	14
	Sign. Diff.	yes	yes
	Seeding Date	May 30	May 29
	Harvest Date	Oct 8	Sep 19
PINK	+/- Floyd		% Floyd
Floyd	0	100	100
CHECK CHARACTERISTICS			
Floyd	92	1168	2925
	DTM		lbs/ac
	CV %	10.7	8.6
	LSD %	18	16
	Sign. Diff.	yes	yes
	Seeding Date	May 30	May 29
	Harvest Date	Oct 8	Sep 19
PINTO	+/- of Windbreaker		% of Windbreaker
SV6139GR	-2	121	106
Vibrant	-2	105	130
SV6533 GR	-1	84	116
Cowboy	0	107	105
Monterrey	2	99	123
Windbreaker	2	100	100
La Paz	4	107	116
Varieties that are registered in the US or being tested or proposed for registration in Canada			
18-376	1	91	110
18-456	1	77	103
18-283	2	88	101
ND Palomino	2	101	121
CHECK CHARACTERISTICS			
Windbreaker	94	1409	2924
	DTM		lbs/ac
	CV %	10.7	8.6
	LSD %	18	16
	Sign. Diff.	yes	yes
	Seeding Date	May 30	May 29
	Harvest Date	Oct 8	Sep 19
GREAT NORTHERN	+/- Pink Panther		% Pink Panther
Aries	0	118	151
Varieties that are registered in the US or being tested or proposed for registration in Canada			
Powderhorn	-3	120	117
DARK RED KIDNEY	+/- Pink Panther		% Pink Panther
Red Hawk	4	92	95
Montcalm	6	91	82
LIGHT RED KIDNEY	+/- Pink Panther		% Pink Panther
Big Red	0	106	85
Pink Panther	0	100	100
CHECK CHARACTERISTICS			
Pink Panther	99	1085	2482
	DTM		lbs/ac
	CV %	6.7	7
	LSD %	13	12
	Sign. Diff.	yes	yes
	Seeding Date	May 30	May 29
	Harvest Date	Oct 8	Sep 19

Market Class/ Variety	DTM +/- Check	2019 Yield % Check	
		Carman	Winkler
CRANBERRY	+/- Etna	% Etna	
Etna	0	100	100
AAC Scotty	5	117	101
Varieties that are registered in the US or being tested or proposed for registration in Canada			
SV3709GC	-4	104	110
CR10875	-1	105	86
Krimson	-1	85	93
CHECK CHARACTERISTICS			
Etna	99	1248	2561
	DTM	lbs/ac	
	CV %	6.7	7.0
	LSD %	11	12
	Sign. Diff.	yes	yes
	Seeding Date	May 30	May 29
	Harvest Date	Oct 8	Sep 19

DRY BEANS ♦ YIELDS BY LOCATION ♦ NARROW ROW

Market Class/ Variety	DTM +/- Check	Yield % Check	Site Years Tested	2019 Yield % Check	
				Melita	Morden
NAVY	+/- Envoy	% Envoy		% Envoy	
Envoy	0	100	53	100	100
Portage	1	102	20	125	154
AAC Shock	3	124	7	145	153
Bolt	3	107	11	125	115
Indi	3	123	4	121	172
T9905	6	115	9	144	171
Varieties that are registered in the US or being tested or proposed for registration in Canada					
3458-7	-4	108	17	131	127
S09-27C	0	118	2	109	132
16-6	9	153	2	146	165
BLACK	+/- Envoy	% Envoy		% Envoy	
CDC Blackstrap	-5	126	20	150	147
CDC SuperJet	1	118	23	120	163
CDC Jet	2	110	44	118	182
Eclipse	4	126	8	134	148
Zenith	4	115	4	130	145
Black Tails	5	173	2	154	208
OAC Vortex	7	164	2	150	189
CHECK CHARACTERISTICS					
Envoy	98	1910	53	1388	784
	DTM	lbs/ac	site years	lbs/ac	
			CV %	6.3	12.5
			LSD %	14	33
			Sign. Diff.	yes	yes
			Seeding Date	May 15	May 23
			Harvest Date	Sep 17	Oct 4
PINTO	+/- Windbreaker	% Windbreaker		% Windbreaker	
SV6139GR	0	104	5	103	100
SV6533GR	0	94	2	97	90
Windbreaker	0	100	12	100	100
FLORA DE JANEIRO	+/- Windbreaker	% Windbreaker		% Windbreaker	
CDC Ray	5	96	7	103	116
CHECK CHARACTERISTICS					
Windbreaker	100	2348	12	1843	1476
	DTM	lbs/ac	site years	lbs/ac	
			CV %	6.3	12.5
			LSD %	10	18
			Sign. Diff.	yes	yes
			Seeding Date	May 15	May 23
			Harvest Date	Sep 17	Oct 4

Key for Field Pea Variety Tables

Relative Vine Length

S = short M = medium L = long

Green Seed Coats

G = 0–10% green seed coats F = 11–25% green seed coats

Seed Coat Dimpling

VG = 0–5% of seeds dimpled G = 6–20% of seeds dimpled
F = 21–50% of seeds dimpled

Bleaching – The resistance rating of green pea to bleaching. Bleaching does not apply to other market classes of peas, indicated by *n/a*.

Fusarium Wilt – Varieties with good resistance to one strain of fusarium wilt may be susceptible to other strains.

FIELD PEAS ♦ VARIETY DESCRIPTIONS

Market Class/Variety	Maturity Rating	Yield % Check	Site Years Tested	Relative Vine Length	TKW (g/1000 seeds)	Resistance							
						Green Seed Coats	Seed Coat Breakage	Seed Coat Dimpling	Seed Coat Bleaching	Lodging	Powdery Mildew	Mycosphaerella Blight	Fusarium Wilt
YELLOW													
AAC Aberdeen	medium	109	7	M	240	<i>n/a</i>	F	<i>n/a</i>	<i>n/a</i>	VG	VG	F	F
AAC Ardill	medium	101	29	M	240	<i>n/a</i>	G	<i>n/a</i>	<i>n/a</i>	G	VG	F	G
AAC Asher	medium	105	6	S	260	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	G	VG	F	F
AAC Carver	medium	108	23	L	240	<i>n/a</i>	G	<i>n/a</i>	<i>n/a</i>	G	VG	F	F
AAC Chrome	medium	111	19	M	240	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	G	VG	F	F
AAC Delhi	medium	104	7	M	290	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	G	VG	F	F
AAC Lacombe	medium	103	27	L	270	F	F	G	<i>n/a</i>	G	VG	F	F
Agassiz	medium	102	66	M	230	G	G	F	<i>n/a</i>	G	VG	F	F
CDC Amarillo	medium	104	29	M	230	G	F	F	<i>n/a</i>	VG	VG	F	G
CDC Athabasca	medium	99	13	L	300	G	F	F	<i>n/a</i>	VG	VG	F	G
CDC Canary	early	100	13	L	230	F	G	F	<i>n/a</i>	VG	VG	F	F
CDC Inca	medium	107	27	L	230	F	G	G	<i>n/a</i>	G	VG	F	F
CDC Lewochko	medium	106	13	L	230	G	G	G	<i>n/a</i>	VG	VG	F	F
CDC Meadow	early	100	79	M	220	G	G	G	<i>n/a</i>	G	VG	F	F
CDC Saffron	medium	101	43	M	250	G	G	F	<i>n/a</i>	G	VG	F	F
CDC Spectrum	medium	100	13	L	240	G	G	G	<i>n/a</i>	VG	G	F	F
GREEN													
AAC Comfort	medium	100	17	M	260	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	G	G	VG	F	F
CDC Forest	medium	105	13	L	230	<i>n/a</i>	G	G	G	G	VG	F	F
CDC Greenwater	late	100	28	M	220	<i>n/a</i>	VG	G	G	G	VG	F	G
CDC Limerick	late	99	28	M	210	<i>n/a</i>	VG	G	G	VG	VG	F	F
CDC Spruce	medium	101	13	L	240	<i>n/a</i>	F	F	G	G	VG	F	F
CDC Striker	medium	90	83	M	230	<i>n/a</i>	VG	G	G	VG	P	F	G
MAPLE													
CDC Blazer	medium	100	7	M	190	<i>n/a</i>	G	VG	<i>n/a</i>	G	VG	F	<i>n/a</i>
AAC Liscard	medium	95	11	M	180	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	G	VG	F	<i>n/a</i>
FORAGE													
CDC Jasper	medium	82	7	L	180	<i>n/a</i>	G	G	<i>n/a</i>	G	VG	F	<i>n/a</i>
DL Goldeye	medium	75	7	L	160	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	VP	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
DL Lacross	medium	90	7	L	190	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	G	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
CHECK CHARACTERISTICS													
CDC Meadow	95 DTM	72 bu/ac	79 site years	34 inches									

FIELD PEAS ♦ YIELDS BY LOCATION

Market Class/Variety	2019 Yield % Check						
	Arborg	Boissevain	Hamiota	Melita	Morden	Portage	Swan River
YELLOW							
AAC Aberdeen	132	117	124	97	123	138	129
AAC Ardill	120	111	120	100	114	95	128
AAC Carver	94	106	120	104	120	123	109
AAC Chrome	122	110	115	103	106	143	134
AAC Delhi	108	117	108	112	112	129	120
AAC Lacombe	121	110	100	92	110	92	136
Agassiz	114	100	116	94	109	115	110

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Market Class/Variety	2019 Yield % Check						
	Arborg	Boissevain	Hamiota	Melita	Morden	Portage	Swan River
CDC Amarillo	96	110	116	93	115	117	99
CDC Athabasca	92	112	122	95	107	111	124
CDC Canary	106	113	115	107	104	108	94
CDC Inca	89	117	128	108	123	105	108
CDC Lewochko	128	108	103	90	110	110	132
CDC Meadow	100	100	100	100	100	100	100
CDC Saffron	101	99	114	106	106	116	90
CDC Spectrum	107	102	112	94	110	110	118
GREEN							
AAC Comfort	119	101	110	91	113	143	124
CDC Forest	110	106	120	94	115	116	138
CDC Greenwater	108	110	108	100	105	97	109
CDC Limerick	100	110	112	92	111	112	93
CDC Spruce	112	113	117	97	124	103	120
CDC Striker	75	100	110	95	97	103	73
MAPLE							
CDC Blazer	101	107	110	91	106	111	119
AAC Liscard	101	110	109	93	108	110	100
FORAGE							
CDC Jasper	76	74	84	82	100	72	81
DL Goldeye	76	77	91	70	85	76	70
DL Lacross	73	95	92	86	104	99	110
CHECK CHARACTERISTICS							
CDC Meadow	74	85	52	75	56	52	46
				bu/ac			
CV %	8.0	6.1	7.9	4.9	7.1	7.5	8.0
LSD %	14	11	14	9	13	13	14
Sign. Diff.	yes	yes	yes	yes	yes	yes	yes
Seeding Date	May 13	May 10	May 6	May 6	May 6	May 21	May 13
Harvest Date	Aug 30	Sep 8	Aug 29	Sep 19	Aug 9	Aug 23	Aug 29

Key for Faba Bean Variety Table

Tannin vs. Zero-Tannin Varieties – Tannin varieties with coloured flowers and tan-coloured seed coats cannot be fed directly to livestock. Zero-tannin varieties with white flowers and seed coats can be fed directly to livestock.

DTM – The number of days from planting to swathing. Days to maturity (DTM) may vary depending on the planting date.

FABA BEANS ♦ VARIETY DESCRIPTIONS AND YIELDS BY LOCATION

Market Class/ Variety	DTM	Yield % Check	Site Years Tested	TKW (g/1000 seeds)	2019 Yield % Check	
					Roblin	Stonewall
COLOURED FLOWER (TANNIN)						
Fabelle	105	100	1	533	100	100
CHECK CHARACTERISTICS						
Fabelle	105	3791	3		4334	1920
	DTM	lbs/ac	site years		lbs/ac	
				CV %	10.9	8.1
				LSD %	18	13
				Sign. Diff.	yes	yes
WHITE FLOWER (ZERO TANNIN)						
DL Tesoro	110	113	2	511	120	99
Snowbird	104	100	15	495	100	100
DL Rico	109	86	2	566	75	107
CHECK CHARACTERISTICS						
Snowbird	104	4896	15		3385	1862
	DTM	lbs/ac	site years		lbs/ac	
				CV%	14.9	7.1
				LSD (%)	24	12
				Sign. Diff.	yes	yes
				Seeding Date	May 7	May 13
				Harvest Date	Oct 9	Sep 8

Key for Lentil Variety Table

CL s Clearfield lentil varieties are tolerant to the herbicide Odyssey (imazamox + imazethapyr). These varieties are identified by “CL” at the end of the name.

Anthracnose Race 1 – The resistance rating of lentil varieties to anthracnose Race 1 (Ct1). There are no available varieties with resistance to Race 2 (Ct0).

Cotyledon Colour – Green lentils have a yellow cotyledon; red lentils have a red cotyledon.

LENTILS ♦ VARIETY DESCRIPTIONS AND YIELDS BY LOCATION

Market Class/Variety	Maturity Rating†	Yield % Check	Site Years Tested	TKW (g/1000 seeds)	Cotyledon Colour	Resistance		2019 Yield % Check	
						Ascochyta Blight	Anthracnose Race 1	Hamiota	Melita
EXTRA SMALL GREEN									
CDC Asterix	early	94	9	26	yellow	G	F	–	–
SMALL GREEN									
CDC Invincible CL	early	84	20	35	yellow	G	G	86	91
CDC Kermit	early/med	99	4	34	yellow	G	G	88	97
MEDIUM GREEN									
CDC Imigreen CL	medium	63	11	63	yellow	G	F	–	–
LARGE GREEN									
CDC Greenland	med/late	63	10	64	yellow	G	VP	–	–
CDC Greenstar	med/late	88	9	73	yellow	G	F	63	99
CDC Impower CL	medium	70	14	74	yellow	G	P	69	84
CDC Lima CL	early/med	85	2	74	yellow	G	P	78	92
FRENCH GREEN									
CDC Peridot CL	early	78	11	40	yellow	G	P	–	–
CDC Marble	early/med	103	9	32	yellow	F	G	–	–
SPANISH BROWN									
CDC SB-3 CL	early	75	2	38	yellow	F	G	–	–
EXTRA SMALL RED									
CDC Imp CL	early/med	86	2	30	red	G	G	75	100
CDC Rosebud	early	87	10	29	red	G	G	–	–
CDC Rosie	early/med	87	6	30	red	G	G	–	–
CDC Roxy	early/med	93	4	32	red	G	G	86	94
CDC Ruby	early	92	2	29	red	G	G	–	–
SMALL RED									
CDC Coral	early/med	87	2	37	red	G	G	80	94
CDC Dazil CL	early/med	95	12	35	red	G	F	86	98
CDC Imax CL	medium	84	20	50	red	G	G	64	99
CDC Impulse CL	early/med	102	5	44	red	G	G	88	104
CDC Maxim CL	early/med	100	22	40	red	G	G	100	100
CDC Nimble CL	early/med	98	2	38	red	G	G	91	106
CDC Proclaim CL	early/med	104	6	40	red	G	G	97	112
CDC Redmoon	early/med	107	6	41	red	G	G	101	109
CDC Scarlet	early/med	100	11	36	red	G	F	85	96
LARGE RED									
CDC-KR 1	medium	79	12	56	red	G	G	–	–
CDC KR2 CL	medium	104	3	55	red	G	G	110	111
GREEN COTYLEDON									
CDC QG-2	early/med	85	7	33	green	F	G	–	–
CDC QG-3 CL	early/med	74	4	46	green	F	G	51	81
CHECK CHARACTERISTICS									
CDC Maxim		3073	22					3213	2847
		lbs/ac	site years					lbs/ac	
							CV %	7.7	3.9
							LSD %	11	6
							Sign. Diff.	yes	yes
							Seeding Date	May 6	May 8
							Harvest Date	Aug 30	Aug 20

† Maturity ratings were determined under Saskatchewan growing conditions.