

# 2017 PULSE AND SOYBEAN VARIETY GUIDE



This publication features the results from MPSG-sponsored trials.

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**THE INDEPENDENT EVALUATION** of varieties across the five different crop types (soybeans, dry beans, field peas, faba beans and lentils) found within this publication were made possible by your continued support through MPSG's 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.

## SOYBEANS

Roundup Ready soybean varieties were evaluated at 15 locations in 2017, reported by eastern and western Manitoba. In eastern Manitoba, there are short-, mid- and long-season location categories. Long-season sites included Morden and Rosebank, which tested late- and mid-season varieties. Mid-season sites included Morris, St. Adolphe, Carman and Portage la Prairie, and are also referred to as core sites due to testing of all varieties at these locations.

Short-season sites included Arborg, Beausejour and Stonewall, which tested early- and mid-season varieties. In western Manitoba, sites included Boissevain, Carberry, Dauphin, Hamiota, Melita and Roblin. Conventional (non-GM) soybean varieties were tested at all sites in eastern Manitoba and at Melita and Carberry.

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

## PULSES

Dry bean 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 conducted at four locations, including Carman, Morden, Portage la Prairie and Winkler.

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

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 Manitoba Pulse & Soybean Growers.

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

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

Faba bean trials were conducted at two locations in Manitoba – Roblin and Arborg. Faba bean varieties are reported by coloured flower (tannins) and white flower (zero tannin) market classes.

## USING THIS GUIDE

There are two types of data tables found in this guide – *Variety Description* and *Yield 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 *Yield 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 general and crop-specific keys.

*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, Agriculture and Agri-Food Canada, the Cereal Research Centre, WADO, PCDF, PESAI, CMDC 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.

**Coefficient of Variation (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.

**Least Significant Difference (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.

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

## 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, 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 Grouping** – The maturity ranking provided by seed suppliers, indicating growing season length. Only triple zero (000) and double zero (00) soybean varieties are grown in Manitoba. Current varieties in Manitoba range from 000 (earliest) to 00.9 (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 three previous years, which are also listed in the table. 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 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 (G), brown (BR), tan (TN), imperfect black (IB) or black (BL).

**Iron Deficiency Chlorosis (IDC) Rating & Grouping** – The IDC rating at the V2 to V3 (2nd to 3rd trifoliolate) stage on a scale of one to five for soybeans. 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 one site near Winnipeg that is prone to IDC. Each variety is also given an IDC grouping to indicate the overall level of tolerance.

**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 Ratings

1 = green leaves	4 = brown dead tissue between green veins
2 = yellowish leaves	5 = severe chlorosis and a stunted growing point
3 = green veins with yellow leaves	

### IDC Groupings

T = tolerant ST = semi-tolerant S = susceptible

**SCN** – Variety resistance to soybean cyst nematode (SCN). Cases of SCN have been confirmed in the United States near the border with Canada. No confirmed cases of SCN have been reported yet in Manitoba.

**PRR** – Phytophthora root rot (PRR) resistance genes for each variety. Resistance genes that correspond with the four most prevalent races of PRR in Manitoba are listed in Table 2. For example, resistance genes 1k and 3a are effective against Race 4, the most prevalent PRR race identified in Manitoba, according to Agriculture and Agri-Food Canada research.

**Table 2. The four most prevalent phytophthora races in Manitoba soils and corresponding resistance genes.**

Phytophthora Race	Resistance Gene
4	1b, 1k*, 3a*, 6*
25	3a*, 6*
28	1c*, 1d, 3a*, 6*
3	1b, 1c*, 1d, 1k*, 3a*, 6*

\*Resistance genes available in commercial soybean varieties in Manitoba.



IDC Rating 0



IDC Rating 1.7



IDC Rating 2.1



IDC Rating 2.5



IDC Rating 3.5



IDC Rating 4.5

# ROUNDUP READY SOYBEANS ♦ VARIETY DESCRIPTIONS

Manitoba Maturity Zone	Company Maturity Grouping	Variety	Type	DTM +/- Check†				Yield % Check	Site Years Tested	Hilum Colour	IDC				
				Average	2017	2016	2015				Rating (1-5)	Grouping	SCN	PRR	
Very Early-Season Zone	000.6	NSC LEROY RR2Y	R2Y	-13	-	-13	-	78	5	Y	2.2	ST	-	-	
	000.9	22-60 RY	R2Y	-10	-	-10	-9	90	18	BL	2.1	ST	Yes	1c	
	000.9	S0009-M2	R2Y	-8	-8	-9	-8	89	17	IY	2.2	ST	-	6	
	000.9	PS 00095 R2	R2Y	-8	-6	-9	-	87	10	BL	1.7	T	-	-	
	000.8	NocomaR2	R2Y	-7	-7	-	-	93	6	B	2.2	ST	-	-	
	000.8	NSC Watson RR2Y	R2Y	-7	-5	-8	-8	88	17	IY	2.1	ST	-	-	
Early-Season Zone	00.1	NSC RESTON RR2Y	R2Y	-6	-	-7	-5	92	28	BL	2.6	S	-	1k	
	00.1	S001-B1	R2Y	-6	-	-6	-	93	5	Y	1.9	ST	-	-	
	00.1	Notus R2	R2Y	-6	-	-7	-5	95	18	BL	1.7	T	-	1c	
	00.3	McLeod R2	R2Y	-5	-	-5	-5	95	28	BL	1.8	ST	-	-	
	000.9	S0009-D6	R2Y	-5	-5	-	-	94	6	IY	2.4	S	-	1k	
	00.2	Bishop R2	R2Y	-5	-	-4	-6	91	30	IY	2.3	S	-	-	
	00.3	NSC Austin RR2Y	R2Y	-5	-	-4	-5	93	9	Y	2.2	ST	-	-	
	000.9	LS TRI9R2Y	R2Y	-4	-4	-	-	94	6	IY	2.5	S	-	-	
	00.2	P002A63R	RR1	-4	-4	-	-	99	6	TN	2.0	ST	-	1c	
	00.1	PV 11S001 RR2	R2Y	-4	-4	-	-	94	6	Y	1.8	ST	-	-	
	000.7	LS TRI7XT	R2X	-4	-4	-	-	88	6	GR	2.3	S	-	-	
	00.5	S007-Y4	R2Y	-4	-2	-5	-5	105	30	IY	2.0	ST	-	1c	
	00.2	23-60RY	R2Y	-4	-3	-4	-4	102	30	BL	1.7	T	Yes	-	
	00.3	S003-L3	R2Y	-4	-2	-4	-5	95	17	BR	2.2	ST	Yes	1c,1k	
	00.2	LS 002R24N	R2Y	-4	-	-4	-3	103	24	BL	2.0	ST	Yes	-	
	00.3	PS 0035 NR2	R2Y	-3	-	-3	-4	100	24	BL	1.9	ST	Yes	-	
	000	Torro R2	R2Y	-3	-2	-5	-	94	17	BL	2.2	ST	-	1c	
	00.6	P006T46R	RR1	-3	-3	-4	-	99	11	BR	2.0	ST	-	1c	
	00.5	Lono R2	R2Y	-3	-	-3	-3	105	24	Y	2.0	ST	-	1k	
	00.4	PS 0055 R2	R2Y	-3	-	-2	-5	97	15	IY	1.8	ST	-	1k	
	00.3	Mahony R2	R2Y	-3	0	-5	-5	101	24	BL	2.9	S	-	-	
	000.8	Barron R2X	R2X	-3	-3	-	-	91	6	BR	2.5	S	-	-	
	00.5	S006-W5	R2Y	-3	-2	-3	-3	111	14	IY	2.5	S	-	1c,1k	
	000.8	TH 87000 R2YX	R2X	-	-	-	-	nt	nt	IY	2.1	ST	-	-	
	000.9	NSC StarCity RRX2	R2X	-	-	-	-	nt	nt	BR	2.2	ST	-	-	
	000.8	DKB0008-39	R2X	-	-	-	-	nt	nt	GR	2.2	ST	-	-	
	000	P000A87R	RR1	-	-	-	-	nt	nt	TN	1.7	T	-	1k	
	Mid-Season Zone	00.3	Akras R2	R2Y	-2	1	-4	-4	104	35	BL	1.7	T	-	1k
		00.5	Foote R2	R2Y	-2	0	-4	-	99	11	IY	1.8	ST	-	1c
		00.3	Kosmo R2	R2Y	-2	-	-2	-	84	5	Y	1.9	ST	-	-
000		DARIO R2X	R2X	-2	-2	-	-	88	6	BR	2.8	S	-	-	
00.3		NSC Gladstone RR2Y	R2Y	-2	1	-3	-3	100	30	BL	2.1	ST	-	1c	
00.5		24-10RY	R2Y	-2	0	-3	-2	102	44	BL	1.9	ST	-	1k	
00.3		LS 003R24N	R2Y	-2	-	-1	-2	102	21	BL	1.9	ST	Yes	1c	
00.2		MANI R2X	R2X	-1	-1	-	-	104	6	BL	1.8	ST	Yes	1c	
00.3		DKB003-29	R2X	-1	-1	-	-	103	6	BL	1.7	T	Yes	-	
00.2		LS SOLAIRE	R2Y	-1	1	-3	-	93	11	BL	2.4	S	-	1c,1k	
00.7		P007A90R	RR1	-1	-1	-	-	101	5	BL	1.9	ST	Yes	1c	
00.5		Gray R2	R2Y	0	0	0	-1	100	33	BL	1.9	ST	-	1c	
00.4		LS 004XT	R2X	0	0	-	-	98	5	BL	1.9	ST	-	1c	
00.6		24-12RY	R2Y	0	1	-1	-	100	10	BL	2.0	ST	-	1c	
00.4		PS 0044 XRN	R2X	0	0	-	-	101	6	BL	2.0	ST	Yes	1a,1k	
00.3		TH 33003R2Y	R2Y	0	0	0	0	100	44	BR	2.0	ST	-	1c	
00.7		NSC Richer RR2Y	R2Y	0	-	1	0	104	24	BL	1.6	T	-	1c	
00.8		P008T22R2	R2Y	0	2	0	-1	103	29	BL	1.6	T	-	1c	
00.5		TAMULA R2	R2Y	1	1	0	-	100	11	Y	2.3	S	-	-	
00.4		TH 37004 R2Y	R2Y	1	1	-	-	99	11	BL	2.0	ST	Yes	1c	
00.3		TH 87003 R2X	R2X	1	1	-	-	108	6	BL	1.7	T	-	-	
00.6		DUGALDO R2X	R2X	1	1	-	-	98	5	IY	2.3	S	-	-	
00.4		DYLANO R2X	R2X	1	1	-	-	90	6	GR	2.3	S	-	-	
00.7		NSC Riverside RR2X	R2X	1	1	-	-	98	5	BL	2.1	ST	-	-	
00.6		HS 006RYS24	R2Y	1	2	1	0	100	39	BL	1.7	T	-	-	
00.2		MARDUK R2X	R2X	1	1	-	-	101	6	Y	2.0	ST	-	1c	
00.3		NSC Newton RR2X	R2X	1	1	-	-	102	6	BR	2.1	ST	-	-	
00.8		Currie R2	R2Y	2	-	2	1	103	24	BL	1.8	ST	-	1k	
00.5		LS Eclipse	R2Y	2	-	2	1	108	8	BL	2.2	ST	Yes	1c	
00.5		NSC Starbuck RRX2	R2X	2	2	-	-	102	6	BL	2.0	ST	-	-	
00.6	DS0067Z1	R2Y	2	3	1	-	102	11	BL	1.7	T	-	-		
00.7	TH 88007R2X	R2X	2	2	-	-	106	6	BL	2.2	ST	-	1c		
00.6	DKB006-29	R2X	2	2	-	-	103	5	BL	1.6	T	-	1k		
00.5	BARKER R2X	R2X	2	2	-	-	104	5	BL	1.8	ST	Yes	1k		
00.5	TH 88005R2XN	R2X	2	2	-	-	100	6	BL	1.8	ST	Yes	1c		
00.7	PV 12S007 R2X	R2X	2	2	-	-	104	5	BL	2.0	ST	-	-		
00.5	DKB005-52	R2X	2	2	-	-	108	5	BL	2.0	ST	Yes	1c		
00.5	PRO 2525R2	R2Y	2	5	1	1	107	22	BL	1.7	T	-	1c		
<b>Experimental lines that are being tested/proposed for registration in Canada</b>															
	00.7	EXP00717 XRN	R2X	2	2	-	-	103	5	BL	1.9	ST	Yes	1k	
Long - Season Zone	00.8	S008-N2	R2Y	3	3	2	-	105	9	IY	1.8	ST	-	-	
	00.6	LS 006XT	R2X	3	3	-	-	100	5	BL	1.7	T	-	-	
	00.8	DOMINGO R2X	R2X	3	3	-	-	97	5	IY	2.0	ST	-	-	
	00.6	0066 XR	R2X	3	3	-	-	101	5	IY	2.4	S	-	-	
	00.8	TH 88008 R2X	R2X	3	3	-	-	103	6	BL	1.8	ST	-	1k	
	00.7	PS 0074 R2	R2Y	3	5	3	1	107	24	BR	1.7	T	-	-	
	00.5	LS MISTRAL	R2Y	3	5	2	-	112	10	BL	1.7	T	-	-	
	00.9	NSC Jordan RR2Y	R2Y	3	-	3	-	106	4	BL	2.2	ST	-	-	
	0.1	HYDRA R2	R2Y	3	-	4	1	104	12	BL	2.1	ST	-	1k	
	00.5	PV 10S005 RR2	R2Y	4	4	-	-	106	5	BL	1.9	ST	-	-	
00.7	RX00797	R2X	4	4	-	-	104	5	BL	1.6	T	Yes	1c		
00.8	DKB008-81	R2X	4	4	-	-	101	5	GR	1.9	ST	-	-		
0.2	LEMPO R2X	R2X	7	7	-	-	101	5	GR	2.1	ST	-	-		
<b>CHECK CHARACTERISTICS</b>				TH 3303R2Y	118	117	121	115	51	44					
					DTM				bu/acre		site years				

† Maturity ratings were averaged across the core sites only, including Carman, Morris, Portage and St. Adolphe.

nt – Varieties were not tested in eastern Manitoba trials in 2017.

**ROUNDUP READY SOYBEANS ♦ YIELD BY LOCATION ♦ EASTERN MANITOBA**

		2017 Yield % Check									
Manitoba Maturity Zone	Company Maturity Grouping	Variety	Average DTM +/- Check†	Early Sites			Core Sites			Late Sites	
				Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	Rosebank	
Very Early-Season Zone	000.9	S0009-M2	-8	98	86	96	80	100	84	-	
	000.9	PS 00095 R2	-8	95	86	100	82	104	85	-	
	000.8	NocomaR2	-7	89	92	97	96	89	94	-	
	000.8	NSC Watson RR2Y	-7	106	90	96	86	99	82	-	
Early-Season Zone	000.9	S0009-D6	-5	120	81	97	88	87	80	-	
	000.9	LS TRI9R2Y	-4	110	75	102	81	97	86	-	
	00.2	P002A63R	-4	129	84	90	111	95	79	-	
	00.1	PV 11S001 RR2	-4	100	87	102	91	91	85	-	
	000.7	LS TRI7XT	-4	100	82	91	80	90	81	-	
	00.5	S007-Y4	-4	115	106	98	94	108	110	-	
	00.2	23-60RY	-4	109	99	102	110	115	106	-	
	00.3	S003-L3	-4	96	99	93	87	109	93	-	
	000	Torro R2	-3	124	99	101	110	101	94	-	
	00.6	P006T46R	-3	105	86	104	98	111	95	-	
	00.3	Mahony R2	-3	115	94	101	104	101	99	-	
	000.8	Barron R2X	-3	114	80	90	84	88	84	-	
	00.5	S006-W5	-3	140	100	119	97	109	83	-	
	Mid-Season Zone	00.3	Akras R2	-2	113	106	103	106	109	114	-
00.5		Foote R2	-2	121	82	101	79	115	98	-	
000		DARIO R2X	-2	100	83	87	71	98	87	-	
00.3		NSC Gladstone RR2Y	-2	116	97	91	99	100	108	-	
00.5		24-10RY	-2	115	96	108	115	107	102	99	
00.2		MANI R2X	-	110	99	103	103	105	106	-	
00.3		DKB003-29	-1	103	107	97	113	103	100	-	
00.2		LS SOLAIRE	-1	97	92	96	104	101	99	-	
00.7		P007A90R	-1	-	-	100	101	118	102	89	
00.5		Gray R2	-0	-	-	106	88	109	86	94	
00.4		LS 004XT	-0	-	-	102	92	108	91	95	
00.6		24-12RY	-0	-	-	104	108	103	83	105	
00.4		PS 0044 XRN	-0	116	83	105	98	100	94	-	
00.3		TH 33003R2Y	0	100	100	100	100	100	100	100	
00.8		P008T22R2	0	-	-	101	104	96	95	96	
00.5		TAMULA R2	1	88	103	105	101	113	115	-	
00.4		TH 37004 R2Y	1	125	83	100	102	104	88	-	
00.3		TH 87003 R2X	1	119	105	107	113	101	97	-	
00.6		DUGALDO R2X	1	-	-	97	99	105	99	94	
00.4		DYLANO R2X	1	88	83	96	89	95	77	-	
00.7		NSC Riverside RR2X	1	-	-	99	87	95	104	105	
00.6		HS 006RYS24	1	114	92	103	105	105	100	-	
00.2		MARDUK R2X	1	116	97	102	99	91	98	-	
00.3		NSC Newton RR2X	1	120	99	95	94	102	102	-	
00.5		NSC Starbuck RRX2	2	126	88	95	105	100	97	-	
00.6		DS0067Z1	2	101	86	92	96	113	90	-	
00.7		TH 88007R2X	2	116	101	106	104	105	102	-	
00.6		DKB006-29	2	-	-	110	111	97	100	95	
00.5		BARKER R2X	2	-	-	106	106	109	98	101	
00.5		TH 88005R2XN	2	101	86	91	112	111	103	-	
00.7	PV 12S007 R2X	2	-	-	109	105	106	96	100		
00.5	DKB005-52	2	-	-	111	115	113	92	106		
00.5	PRO 2525R2	2	-	-	106	97	109	100	100		
<b>Experimental lines that are being tested/proposed for registration in Canada</b>											
	00.7	EXP00717 XRN	2	-	-	108	103	108	96	99	
Long-Season Zone	00.8	S008-N2	3	-	-	100	93	107	102	107	
	00.6	LS 006XT	3	-	-	103	95	95	97	102	
	00.8	DOMINGO R2X	3	-	-	91	100	104	92	97	
	00.6	0066 XR	3	-	-	98	98	102	95	109	
	00.8	TH 88008 R2X	3	114	98	103	98	99	106	-	
	00.7	PS 0074 R2	3	-	-	100	95	121	102	110	
	00.5	LS MISTRAL	3	122	100	113	109	111	101	-	
	00.5	PV 10S005 RR2	4	-	-	109	83	114	106	114	
	00.7	RX00797	4	-	-	104	102	116	104	98	
	00.8	DKB008-81	4	-	-	105	81	97	89	114	
0.2	LEMPO R2X	7	-	-	101	83	103	88	116		
<b>CHECK CHARACTERISTICS</b>		TH 3303R2Y	118 DTM	50	39	56	47	44	33	60	
				bu/ac							
				CV %	13	5	5	8	8	5	5
				LSD %	24	8	9	12	13	8	9
				Sign. Diff.	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Seeding Date</b>				May 26	May 16	May 15	May 19	May 26	May 15	May 15	
<b>Harvest Date</b>				Oct 11	Sep 30	Sep 29	Oct 05	Oct 05	Sep 21	Sep 30	

† Maturity ratings were averaged across the core sites only, including Carman, Morris, Portage and St. Adolphe.

# ROUNDUP READY SOYBEANS ♦ YIELD BY LOCATION ♦ WESTERN MANITOBA

Manitoba Maturity Zone	Company Maturity Grouping	Variety	DTM +/- Check†				Yield % Check	Site Years Tested	2017 Yield % Check				
			Average	2017	2016	2015			Boissevain	Carberry	Dauphin	Hamiota	Melita
Very Early-Season Zone	000.6	NSC LEROY RR2Y	-7	-8	-7	-	83	10	84	89	83	79	75
	000	P000A87R	-7	-7	-	-	81	5	82	85	86	73	83
	000.9	S0009-M2	-3	-4	-1	-5	100	15	101	100	103	88	96
	000.8	NocomaR2	-3	-3	-	-	98	5	109	100	100	92	85
Early-Season Zone	000.8	NSC Watson RR2Y	-2	-3	0	-4	97	15	97	97	99	87	87
	000.9	S0009-D6	-2	-2	-	-	90	5	82	92	101	84	91
	000.8	TH 87000 R2YX	-2	-2	-	-	85	5	80	89	88	87	79
	000.7	LS TRI7XT	-2	-2	-	-	90	5	92	89	97	86	86
	000.9	PS 00095 R2	-1	-3	0	-	94	10	96	98	92	96	99
	00.2	P002A63R	-1	-1	-	-	102	5	104	105	109	90	100
	000.9	NSC StarCity RRX2	-1	-1	-	-	91	5	85	106	89	88	85
	000.9	LS TRI9R2Y	-1	-1	-	-	94	5	97	89	101	90	90
	00.1	S001-B1	-1	-1	-1	-	101	10	92	101	105	100	93
	000.8	Barron R2X	-1	-1	-	-	91	5	96	93	94	82	90
	000.8	DARIO R2X	-1	-1	-	-	88	5	84	88	95	84	90
	000.9	22-60 RY	0	1	-1	-1	97	19	101	104	96	103	100
	00.1	NSC RESTON RR2Y	0	0	0	0	100	25	100	100	100	100	100
	00.1	PV 11S001 RR2	1	1	-	-	91	5	94	96	92	91	81
	00.3	S003-L3	2	0	4	-	104	10	101	114	112	96	94
	00.3	NSC Austin RR2Y	2	2	2	-	100	10	97	102	111	101	88
	00.2	23-60RY	2	0	4	2	105	24	110	116	108	105	89
	00.5	S006-W5	2	0	4	-	106	10	96	98	119	102	100
	00.1	Torro R2	2	2	-	-	99	5	97	103	111	96	84
	00.4	PS 0044 XRN	2	2	-	-	100	5	105	94	101	101	98
	000.8	DKB0008-39	2	2	-	-	96	5	104	99	96	88	90
	00.3	TH 87003 R2X	3	3	-	-	109	5	106	122	113	105	95
	00.3	McLeod R2	3	1	4	3	106	25	99	106	109	100	94
	00.4	PS 0055 R2	3	3	3	-	98	10	96	105	111	83	96
	00.3	Mahony R2	3	4	3	3	107	19	99	105	111	104	99
	00.4	DYLANO R2X	3	3	-	-	91	5	74	99	108	90	83
	00.2	LS 002R24N	4	2	6	3	106	24	101	113	111	104	93
	00.3	DKB003-29	4	4	-	-	98	5	100	100	105	94	89
00.2	MARDUK R2X	4	4	-	-	101	5	99	108	108	93	93	
00.5	S007-Y4	4	3	6	3	109	19	99	95	108	106	97	
00.2	MANI R2X	4	4	-	-	103	5	92	106	116	103	94	
Mid-Season Zone	00.5	Foote R2	5	5	-	-	103	5	103	107	111	91	101
	00.6	P006T46R	5	4	6	-	109	10	102	111	121	107	100
	00.3	NSC Newton RR2X	5	5	-	-	89	5	88	93	97	83	78
	00.3	TH 33003R2Y	5	3	7	5	103	25	93	108	108	102	83
	00.3	PS 0035 NR2	5	3	7	5	103	24	94	126	115	101	89
	00.5	LS MISTRAL	5	5	-	-	109	5	109	105	121	107	99
	00.3	Akras R2	5	6	4	5	107	19	94	116	108	104	114
	00.5	Lono R2	5	4	7	5	109	19	108	112	108	105	104
	00.3	Kosmo R2	5	5	-	-	92	5	91	96	99	91	81
	00.4	TH 37004 R2Y	6	4	7	-	111	20	97	108	109	107	91
	00.5	PV 10S005 RR2	6	6	-	-	110	5	111	116	118	104	95
	00.6	DS0067Z1	7	7	-	-	99	5	92	103	111	94	95
	00.5	TH 88005R2XN	7	7	-	-	97	5	94	103	101	97	85
	00.2	LS SOLAIRE	7	5	9	-	105	10	110	111	121	94	99
	00.5	TAMULA R2	7	6	8	-	106	10	103	126	102	99	95
	<b>CHECK CHARACTERISTICS</b>		NSC Reston RR2Y	122	124	123	118	53	25	62	59	66	64
			DTM				bu/ac	site years	bu/ac				
								CV %	8	7	6	6	4
								LSD %	13	12	9	9	6
								Sign. Diff.	Yes	Yes	Yes	Yes	Yes
							<b>Seeding Date</b>	May 18	May 15	May 17	May 10	May 15	
							<b>Harvest Date</b>	Sep 30	Sep 28	Oct 10	Oct 11	Sep 29	

† Maturity ratings were averaged across all sites listed here, including Boissevain, Carberry, Dauphin, Hamiota and Melita.

## CONVENTIONAL SOYBEANS ♦ VARIETY DESCRIPTIONS

Manitoba Maturity Zone	Company Maturity Grouping	Variety	DTM +/- Check <sup>†</sup>				Yield % Check	Site Years Tested	Hilum Colour	IDC		
			Average	2017	2016	2015				Rating (1-5)	Grouping	
			Early-Season Zone	00.3	AAC Edward	-3				-5	-4	-1
	000.9	AAC Halli	-2	-3	-1	-1	99	22	Y	2.3	S	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>											
	00.0	OT 16-01	-4	-4	-	-	106	7	IY	2.1	ST	
	000.5	PR110530Z041	-4	-4	-	-	97	6	IY	1.6	T	
Mid-Season Zone	00.3	OAC Prudence	0	0	0	0	100	117	Y	1.6	T	
	00.2	Maxus	0	0	-	-	98	6	IY	2.2	ST	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>											
	000.7	PR110524Z023	-1	-1	-	-	102	6	IY	1.7	T	
	000	Terra-11	-1	-1	-	-	114	6	CL	2.2	ST	
	00.2	OT 16-02	0	0	-	-	107	7	Y	2.3	S	
	00.4	Terra-12	2	2	-	-	96	6	CL	1.9	ST	
Long-Season Zone	0.0	Opus	6	6	-	-	108	6	IY	2.2	ST	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>											
	00.4	OT 16-04	3	3	-	-	118	6	IY	2.5	S	
	00.3	OT 16-05	3	3	-	-	120	6	IY	2.5	S	
	00.6	OT 16-06	4	4	-	-	119	6	Y	2.4	S	
	00.5	Terra-13	4	4	-	-	102	6	CL	2.1	ST	
	00.9	OAC 13-05C	10	6	10	-	127	13	IY	3.0	S	
	0.1	OT15-02	10	5	10	-	116	10	IY	2.4	S	
<b>CHECK CHARACTERISTICS</b>		OAC Prudence	114	118	117	108	49	117				
			DTM				bu/acre	site years				

<sup>†</sup> Maturity ratings were averaged across the core sites only, including Carman, Morris, Portage and St. Adolphe.

## CONVENTIONAL SOYBEANS ♦ YIELD BY LOCATION ♦ EASTERN MANITOBA

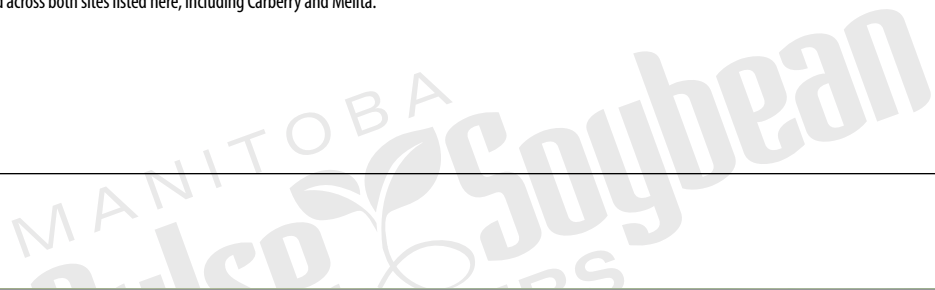
Manitoba Maturity Zone	Company Maturity Grouping	Variety	Average DTM +/- Check <sup>†</sup>	2017 Yield % Check									
				Early Sites			Core Sites				Long Sites		
				Arborg	Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	Morden	Rosebank	
Early-Season Zone	00.3	AAC Edward	-3	103	98	91	130	108	100	116	-	-	
	000.9	AAC Halli	-2	108	99	102	101	92	94	119	-	-	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>												
	00.0	OT 16-01	-4	102	110	93	130	105	93	111	-	-	
	000.5	PR110530Z041	-4	-	-	-	112	87	97	99	100	97	
Mid-Season Zone	00.3	OAC Prudence	0	100	100	100	100	100	100	100	100	100	
	00.2	Maxus	0	-	-	-	107	76	83	115	95	118	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>												
	000.7	PR110524Z023	-1	-	-	-	115	99	105	89	104	100	
	000	Terra-11	-1	-	-	-	119	98	100	116	121	131	
	00.2	OT 16-02	0	94	106	115	119	102	97	123	-	-	
	00.4	Terra-12	2	-	-	-	107	93	86	101	96	112	
Long-Season Zone	0.0	Opus	6	-	-	-	132	87	97	109	101	124	
	<b>Experimental lines that are being tested/proposed for registration in Canada</b>												
	00.4	OT 16-04	3	-	-	-	118	111	114	124	110	136	
	00.3	OT 16-05	3	-	-	-	135	104	114	129	126	123	
	00.6	OT 16-06	4	-	-	-	137	106	107	129	107	141	
	00.5	Terra-13	4	-	-	-	125	96	91	107	93	107	
	00.9	OAC 13-05C	10	-	-	-	133	109	110	140	123	154	
	0.1	OT15-02	10	-	-	-	116	99	122	126	126	152	
<b>CHECK CHARACTERISTICS</b>		OAC Prudence	114	35	50	37	41	40	41	25	45	44	
			DTM	bu/ac									
				CV %	13	7	4	8	12	7	6	11	6
				LSD %	25	14	7	16	19	11	12	19	12
				Sign. Diff.	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes
				Seeding Date	May 23	May 26	May 16	May 15	May 19	May 26	May 15	May 18	May 15
				Harvest Date	Oct 13	Oct 12	Sep 30	Sep 29	Oct 05	Oct 05	Sep 28	Oct 11	Sep 30

<sup>†</sup> Maturity ratings were averaged across the core sites only, including Carman, Morris, Portage and St. Adolphe.

CONVENTIONAL SOYBEANS ♦ YIELD BY LOCATION ♦ WESTERN MANITOBA

Manitoba Maturity Zone	Company Maturity Grouping	Variety	DTM +/- Check†			Yield % Check	Site Years Tested	2017 Yield % Check		
			Average	2017	2016			Carberry	Melita	
Early-Season Zone	000.9	AAC Halli	-1	0	-2	103	3	97	98	
	00.4	AAC Edward	-2	-2	-1	106	3	100	97	
Mid-Season Zone	000	FJORD	-2	-4	0	85	3	80	72	
	00.3	OAC Prudence	0	0	0	100	3	100	100	
	000	ANSER	3	0	5	109	3	106	101	
	00	KEBEK	4	1	6	117	3	104	92	
	Experimental lines that are being tested/proposed for registration in Canada									
	000	OT 16-01	0	0	-	97	3	103	90	
000	OT 16-02	2	-1	4	106	3	104	110		
<b>CHECK CHARACTERISTICS</b>		OAC Prudence	112	116	107	42	3	57	41	
						DTM	bu/ac	bu/ac		
							site years			
							CV %	10	8	
							LSD %	17	13	
							Sign. Diff	Yes	Yes	
							Seeding Date	May 15	May 15	
							Harvest Date	Sep 28	Sep 28	

† Maturity ratings were averaged across both sites listed here, including Carberry and Melita.



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## 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 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 BEAN ♦ 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 (%)
<b>NAVY</b>	+/- T9905	% T9905								
AAC Argosy	-1	98	4	221	2	66	89	1	6	0
Bolt	-2	90	11	238	1	67	88	1	5	0
DS105W0	2	101	9	216	2	69	83	1	7	0
Envoy	-4	72	26	199	2	57	69	2	14	5
Indi	-3	99	18	181	1	67	89	1	9	0
Lightning	-3	90	26	217	1	63	88	1	10	0
Nautica	0	91	10	184	1	66	90	1	7	0
Portage	-4	90	26	209	1	61	84	1	6	1
T9905	0	100	26	227	2	65	88	1	6	0
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>										
Alpena	-3	84	4	188	1	68	87	1	4	0
NA196	-2	94	6	202	2	66	89	1	6	0
<b>CHECK CHARACTERISTICS</b>										
T9905	104 DTM	2406 lbs/ac	26 site years							
<b>BLACK</b>	+/- Eclipse	% Eclipse								
CDC Blackstrap	-5	83	9	233	1	55	87	1	4	1
CDC Jet	-2	88	35	217	1	62	87	1	5	0
CDC Superjet	-1	86	23	215	1	54	82	1	7	0
Eclipse	0	100	35	200	1	68	87	0	3	0
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>										
13505	0	99	4	209	1	69	89	1	7	0
13489	1	108	6	204	1	71	83	1	6	0
GTS1103	2	97	8	206	1	64	89	1	7	0
H76BK6	1	92	4	218	2	61	81	1	7	0
<b>CHECK CHARACTERISTICS</b>										
Eclipse	100 DTM	2497 lbs/ac	35 site years							

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 (%)
<b>PINK</b>	+/- FLOYD	% FLOYD								
FLOYD	0	100	24	339	4	51	55	2	19	3
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>										
Rosetta	6	118	7	337	2	62	63	2	7	0
<b>CHECK CHARACTERISTICS</b>										
FLOYD	93 DTM	2463 lbs/ac	24 site years							
<b>YELLOW</b>	+/- Windbreaker	% Windbreaker								
CDC Sol	3	78	25	450	2	54	78	2	15	3
<b>PINTO</b>	+/- Windbreaker	% Windbreaker								
CDC WM-2	-4	79	19	399	2	56	64	2	8	6
Windbreaker	0	100	49	374	3	55	63	1	4	1
Monterrey	2	106	14	329	2	67	74	2	8	1
SV6139GR	-3	103	19	353	2	56	71	1	8	1
VIBRANT	-2	103	6	343	2	66	71	1	5	1
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>										
El-Diablo	-1	94	9	378	3	61	61	2	5	0
PT284-10	0	75	4	349	3	56	58	2	16	3
Radiant 12324	-2	104	7	350	2	66	75	2	9	2
<b>CHECK CHARACTERISTICS</b>										
Windbreaker	97 DTM	2687 lbs/ac	49 site years							
<b>GREAT NORTHERN</b>	+/- Pink Panther	% Pink Panther								
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>										
Powderhorn	-1	139	3	368	2	58	57	2	22	0
<b>LIGHT RED KIDNEY</b>	+/- Pink Panther	% Pink Panther								
BIG RED	-1	102	16	628	1	58	58	2	24	1
Pink Panther	0	100	48	642	1	56	64	2	22	1
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>										
09363	-3	96	5	647	1	55	57	2	40	1
<b>CHECK CHARACTERISTICS</b>										
Pink Panther	100 DTM	1970 lbs/ac	47 site years							
<b>CRANBERRY</b>	+/- Cran 09	% Cran 09								
Cran 09	0	100	58	560	2	51	48	2	24	5
Etna	2	98	50	608	1	52	67	2	15	1
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>										
CR312-8	2	101	5	614	1	56	60	3	49	1
CR318-6	4	112	9	607	1	57	68	2	27	1
Krimson	3	95	13	634	2	52	43	2	13	4
<b>CHECK CHARACTERISTICS</b>										
Cran 09	99 DTM	1874 lbs/ac	58 site years							

## DRY BEAN WIDE ROW ♦ YIELD BY LOCATION

Market Class/Variety	DTM +/- Check	2017 Yield % Check			
		Carman	Morden	Portage	Winkler
<b>NAVY</b>	+/- Envoy				
AAC Argosy	-1	89	104	111	95
Bolt	-2	82	89	81	86
DS105W0	0	97	89	106	108
Envoy	-8	32	42	103	58
Indi	-3	93	110	108	97
Lightning	-3	87	91	93	89
Nautica	-1	82	92	92	91
Portage	-6	75	91	96	82
T9905	0	100	100	100	100
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>					
Alpena	-1	77	96	86	82
NA196	0	83	100	90	85
<b>CHECK CHARACTERISTICS</b>					
T9905	103 DTM	3574	2176	2769	4709
		lbs/ac			
	CV %	8	11	7	4
	LSD %	11	18	11	6
	Sign. Diff.	Yes	Yes	Yes	Yes
	<b>Seeding Date</b>	May 30	May 23	May 16	May 30
	<b>Harvest Date</b>	Sep 28	Sep 30	Oct 5	Sep 28
<b>BLACK</b>	+/- Eclipse				
CDC Blackstrap	-5	97	73	87	80
CDC Jet	-2	79	87	85	92
CDC Superjet	-1	87	88	85	79
Eclipse	0	100	100	100	100
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>					
13489	0	109	116	105	107
13505	-1	86	107	107	100
GTS1103	3	98	96	92	108
H76BK6	1	98	91	81	94
<b>CHECK CHARACTERISTICS</b>					
Eclipse	99 DTM	3528	2343	2947	4717
		lbs/ac			
	CV%	8	11	7	4
	LSD %	12	16	10	6
	Sign. Diff.	Yes	Yes	Yes	Yes
	<b>Seeding Date</b>	May 30	May 23	May 16	May 30
	<b>Harvest Date</b>	Sep 28	Sep 30	Oct 5	Sep 28
<b>PINK</b>	+/- Windbreaker				
FLOYD	0	100	100	100	100
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>					
Rosetta	6	98	134	107	130
<b>CHECK CHARACTERISTICS</b>					
FLOYD	96 DTM	2964	2156	2253	3712
		lbs/ac			
	CV %	12	13	10	8
	LSD %	20	26	20	15
	Sign. Diff.	Yes	Yes	Yes	Yes
	<b>Seeding Date</b>	May 30	May 23	May 16	May 30
	<b>Harvest Date</b>	Sep 28	Sep 30	Oct 5	Sep 28

continued ▶

Market Class/ Variety	DTM +/- Check	2017 Yield % Check			
		Carman	Morden	Portage	Winkler
<b>YELLOW</b>	+/- Windbreaker				% Windbreaker
CDC Sol	3	87	76	85	71
<b>PINTO</b>	+/- Windbreaker				% Windbreaker
CDC WM-2	-6	87	80	61	71
Windbreaker	0	100	100	100	100
Monterrey	0	118	108	112	101
SV6139GR	1	114	107	110	112
VIBRANT	-2	97	100	135	108
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>					
El-Diablo	-1	101	111	70	103
PT284-10	0	80	72	56	84
Radiant 12324	0	114	111	115	105
<b>CHECK CHARACTERISTICS</b>					
Windbreaker	96	3089	2642	2760	4120
	DTM			lbs/ac	
	CV %	12	13	10	8
	LSD %	20	21	16	13
	Sign. Diff.	Yes	Yes	Yes	Yes
	<b>Seeding Date</b>	May 30	May 23	May 16	May 30
	<b>Harvest Date</b>	Sep 28	Sep 30	Oct 5	Sep 28
<b>GREAT NORTHERN</b>	+/- Pink Panther				% Pink Panther
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>					
Powderhorn	-1	134	108	-	175
<b>LIGHT RED KIDNEY</b>	+/- Pink Panther				% Pink Panther
Pink Panther	0	100	100	-	100
Big Red	-1	124	75	-	114
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>					
09363	-5	114	83	-	103
<b>CHECK CHARACTERISTICS</b>					
Pink Panther	96	2372	2509	-	2635
	DTM			lbs/ac	
	CV %	7	10	-	13
	LSD %	11	15	-	24
	Sign. Diff.	Yes	Yes	-	Yes
	<b>Seeding Date</b>	May 30	May 23	-	May 30
	<b>Harvest Date</b>	Sep 28	Sep 30	-	Sep 28
<b>CRANBERRY</b>	+/- Cran 09				% Cran 09
Cran 09	0	100	100	-	100
Etna	3	62	99	-	97
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>					
CR312-8	0	94	89	-	93
CR318-6	2	97	101	-	131
Krimson	2	103	88	-	124
<b>CHECK CHARACTERISTICS</b>					
Cran 09	94	2195	2110	-	2476
	DTM			lbs/ac	
	CV %	7	10	-	13
	LSD %	12	18	-	26
	Sign. Diff.	Yes	Yes	-	Yes
	<b>Seeding Date</b>	May 30	May 23	-	May 30
	<b>Harvest Date</b>	Sep 28	Sep 30	-	Sep 28

## DRY BEAN NARROW ROW ♦ YIELD BY LOCATION

Market Class/ Variety	DTM +/- Check	Yield % Check	Site Years Tested	2017 Yield % Check		
				Boissevain	Melita	Stonewall
<b>NAVY</b>	+/- Envoy	% Envoy			% Envoy	
AAC Shock	4	119	3	133	89	138
Bolt	4	105	7	120	86	118
Envoy	0	100	49	100	100	100
OAC SPARK	-1	112	10	119	102	115
Portage	2	100	16	139	114	142
T9905	6	109	5	132	88	135
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>						
3458-7	-3	107	13	125	104	101
2918-25	-3	125	14	157	117	136
<b>BLACK</b>	+/- Envoy	% Envoy			% Envoy	
CDC Jet	2	106	40	145	121	111
CDC SuperJet	1	118	19	159	125	116
CDC Blackstrap	1	124	16	168	133	144
<b>CHECK CHARACTERISTICS</b>						
Envoy	101 DTM	1980 lbs/ac	49 site years	2803	2427 lbs/ac	2167
			CV %	9	5	11
			LSD %	23	8	23
			Sign. Diff.	Yes	Yes	Yes
			Seeding Date	May 23	May 16	May 16
			Harvest Date	Oct 4	Sep 11	Sep 30
<b>PINTO</b>	+/- CDC Pintium	% CDC Pintium			% CDC Pintium	
CDC Pintium	0	100	49	100	100	100
CDC Marmot	0	110	19	104	95	89
CDC WM-2	3	116	21	113	89	95
Medicine Hat	3	112	13	120	123	106
AC Island	2	118	10	120	100	101
SV6139GR	1	140	5	128	124	107
Windbreaker	3	128	8	113	121	114
<b>YELLOW</b>	+/- CDC Pintium	% CDC Pintium			% CDC Pintium	
CDC Sol	4	96	5	101	87	85
<b>Varieties that are registered in the US or being tested/proposed for registration in Canada</b>						
3620-3 (FDJ – Bean)	5	106	3	122	99	86
7ab-3bola-3 (Cranberry)	4	84	3	103	62	74
3850-1 (Yellow)	1	98	3	112	92	79
<b>CHECK CHARACTERISTICS</b>						
CDC Pintium	97 DTM	2125 lbs/ac	49 site years	4078	2523 lbs/ac	2253
			CV %	9	5	11
			LSD %	16	8	18
			Sign. Diff.	Yes	Yes	Yes
			Seeding Date	May 23	May 16	May 16
			Harvest Date	Oct 4	Sep 11	Sep 30

## 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 PEA ♦ VARIETY DESCRIPTIONS

### Resistance Level

Market Class/Variety	Relative Maturity	Yield % Check	Site Years Tested	Relative Vine Length	TKW (g/1000 seeds)	Resistance Level							
						Green Seed Coats	Seed Coat Breakage	Seed Coat Dimpling	Bleaching	Lodging	Powdery Mildew	Mycosphaerella Blight	Fusarium Wilt
<b>YELLOW</b>													
AAC Ardill	medium	100	16	M	240	<i>n/a</i>	G	<i>n/a</i>	<i>n/a</i>	G	VG	F	G
AAC Carver	medium	110	10	L	240	<i>n/a</i>	G	<i>n/a</i>	<i>n/a</i>	G	VG	F	F
AAC Lacombe	medium	104	14	L	270	F	G	G	<i>n/a</i>	G	VG	F	F
Abarth	early	101	10	M	280	G	F	G	<i>n/a</i>	VG	VG	F	F
AC Earlystar	early	100	6	M	210	G	F	G	<i>n/a</i>	G	VG	F	F
Agassiz	medium	101	53	M	230	G	G	F	<i>n/a</i>	G	VG	F	F
CDC Amarillo	medium	103	16	M	230	G	F	F	<i>n/a</i>	VG	VG	F	G
CDC Golden	medium	93	58	M	230	G	G	G	<i>n/a</i>	G	VG	F	F
CDC Inca	medium	107	14	L	230	F	G	G	<i>n/a</i>	G	VG	F	F
CDC Meadow	early	100	66	M	220	G	G	G	<i>n/a</i>	G	VG	F	F
CDC Saffron	medium	101	30	M	250	G	G	F	<i>n/a</i>	G	VG	F	F
Cutlass	medium	93	65	M	220	G	F	F	<i>n/a</i>	G	VG	F	F

### Experimental lines that are being tested/proposed for registration in Canada

P0520-116	medium	109	6	M	240	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	G	VG	F	F
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### GREEN

AAC Radius	medium	86	15	M	230	<i>n/a</i>	VG	G	VG	G	VG	F	G
AAC Royce	medium	97	13	M	250	<i>n/a</i>	G	<i>n/a</i>	G	F	VG	F	F
CDC Greenwater	late	99	15	M	220	<i>n/a</i>	VG	G	G	G	VG	F	G
CDC Limerick	late	99	15	M	210	<i>n/a</i>	VG	G	G	VG	VG	F	F
CDC Patrick	medium	93	51	M	190	<i>n/a</i>	G	G	G	G	VG	F	G
AAC Comfort	medium	93	5	M	260	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	G	G	VG	F	F
CDC Striker	medium	90	70	M	230	<i>n/a</i>	VG	G	G	VG	P	F	G
COOPER	late	95	47	M	270	<i>n/a</i>	F	G	G	G	VG	F	F

### MAPLE

AAC Liscard	medium	92	5	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>
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### CHECK CHARACTERISTICS

CDC Meadow	95 DTM	73 bu/ac	66 site years	86 cm									
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## FIELD PEA ♦ YIELD BY LOCATION

Market Class/Variety	2017 Yield % Check					
	Boissevain	Carberry	Melita	Hamiota	Portage	Roblin
<b>YELLOW</b>						
AAC Ardill	113	97	100	103	95	119
AAC Carver	135	117	118	99	120	130
AAC Lacombe	116	103	112	108	109	111
Agassiz	112	97	95	86	105	116
CDC Amarillo	111	115	108	93	112	111
CDC Golden	94	89	97	93	96	99
CDC Inca	114	110	114	94	104	113
CDC Meadow	100	100	100	100	100	100
CDC Saffron	105	97	100	98	101	108
<b>Experimental lines that are being tested/proposed for registration in Canada</b>						
P0520-116	110	114	114	108	98	131
<b>GREEN</b>						
AAC Comfort	98	100	98	94	78	–
AAC Radius	96	89	91	88	92	–
AAC Royce	103	102	95	85	97	–
CDC Greenwater	105	100	101	94	101	–
CDC Limerick	103	102	100	101	107	–
CDC Patrick	98	101	97	87	90	–
CDC Striker	99	86	94	73	88	–
<b>MAPLE</b>						
AAC Liscard	91	94	94	99	99	–
<b>CHECK CHARACTERISTICS</b>						
CDC Meadow	82	95	82	96	90	85
	bu/ac					
CV %	6	6	6	6	10	8
LSD %	11	10	10	9	16	14
Sign. Diff.	Yes	Yes	Yes	Yes	Yes	Yes
<b>Seeding Date</b>	May 05	May 13	May 05	May 09	May 11	May 27
<b>Harvest Date</b>	Aug 24	Aug 28	Aug 14	Aug 29	Aug 30	Sep 04

### 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.

**Days to Maturity** – The number of days from planting to swathing. Days to maturity may vary depending on the planting date.

### Key for Lentil Variety Table

**CL** – 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.

## FABA BEAN ♦ VARIETY DESCRIPTION AND YIELD BY LOCATION

Market Class/Variety	DTM	Yield % Check	Site Years Tested	TKW (g/1000 seeds)	2016 Yield % Check <sup>†</sup>	
					Roblin	
<b>COLOURED FLOWER (TANNINS)</b>						
CDC Fatima	105	100	34	520	100	
CDC SSNS-1	105	96	11	335	–	
Florent	107	103	8	660	–	
Taboar	107	96	13	480	–	
Fabelle	105	107	1	533	107	
<b>CHECK CHARACTERISTICS</b>						
CDC Fatima		4032 lbs/ac	34 site years			4779 lbs/ac
					CV %	6
					LSD %	10
					Sign. Diff.	Yes
<b>WHITE FLOWER (ZERO TANNINS)</b>						
CDC Snowdrop	104	96	10	335	81	
Snowbird	104	100	13	495	100	
Tabasco	106	99	8	530	–	
<b>CHECK CHARACTERISTICS</b>						
Snowbird		5246 lbs/ac	10 site years			4033 lbs/ac
					CV %	9
					LSD %	15
					Sign. Diff.	Yes
					<b>Seeding Date</b>	May 10
					<b>Harvest Date</b>	Sep 16

<sup>†</sup> Faba bean variety trial results from 2016 were reprinted due to high variability of yield data in 2017.




## LENTILS ♦ VARIETY DESCRIPTION AND YIELD BY LOCATION

Market Class/Variety	Relative Maturity	Yield % Check	Site Years Tested	TKW (g/1000 seeds)	Cotyledon Colour	Resistance Level		2017 Yield % Check	
						Ascochyta Blight	Anthracnose Race 1	Melita	
<b>SMALL GREEN</b>									
CDC Asterix	early	91	7	26	yellow	G	F	92	
CDC Invincible CL	early	81	16	35	yellow	G	G	93	
<b>MEDIUM GREEN</b>									
CDC Imigreen CL	medium	63	11	63	yellow	G	F	–	
<b>LARGE GREEN</b>									
CDC Greenland	med/late	63	10	64	yellow	G	VP	–	
CDC Greenstar	med/late	91	5	73	yellow	G	F	100	
CDC Impower CL	medium	67	10	74	yellow	G	P	76	
<b>FRENCH GREEN</b>									
CDC Peridot CL	early	78	11	40	yellow	G	P	–	
CDC Marble	early/med	105	7	32	yellow	F	G	103	
CDC QG-2	early/med	82	5	33	yellow	F	G	90	
<b>EXTRA SMALL RED</b>									
CDC Rosebud	early	87	10	29	red	G	G	–	
CDC Rosie	early/med	87	6	30	red	G	G	–	
CDC Ruby	early	92	2	29	red	G	G	–	
<b>SMALL RED</b>									
CDC Dazil	early/med	97	8	35	red	G	F	106	
CDC Imax CL	medium	82	16	50	red	G	G	87	
CDC Maxim CL	early/med	100	18	40	red	G	G	100	
CDC Proclaim CL	early/med	98	2	40	red	G	G	110	
CDC Redmoon	early/med	112	2	41	red	G	G	111	
CDC Scarlet	early/med	104	7	36	red	G	F	105	
<b>MEDIUM RED</b>									
CDC Impulse CL	early/med	114	1	44	red	G	G	114	
CDC KR2	medium	100	1	55	red	G	G	100	
<b>LARGE RED</b>									
CDC-KR1	medium	79	12	56	red	G	G	–	
<b>CHECK CHARACTERISTICS</b>									
CDC Maxim		3192 lbs/ac	18 site years						3453 lbs/ac
							CV %	9	
							LSD %	15	
							Sign. Diff.	Yes	
							<b>Seeding Date</b>	May 05	
							<b>Harvest Date</b>	Aug 21	





# Manitoba Soybean Maturity Zones

(A guideline for choosing varieties)

## Map Elements

-  Water Bodies
-  Rural Municipalities
-  Prov/Nat. Parks

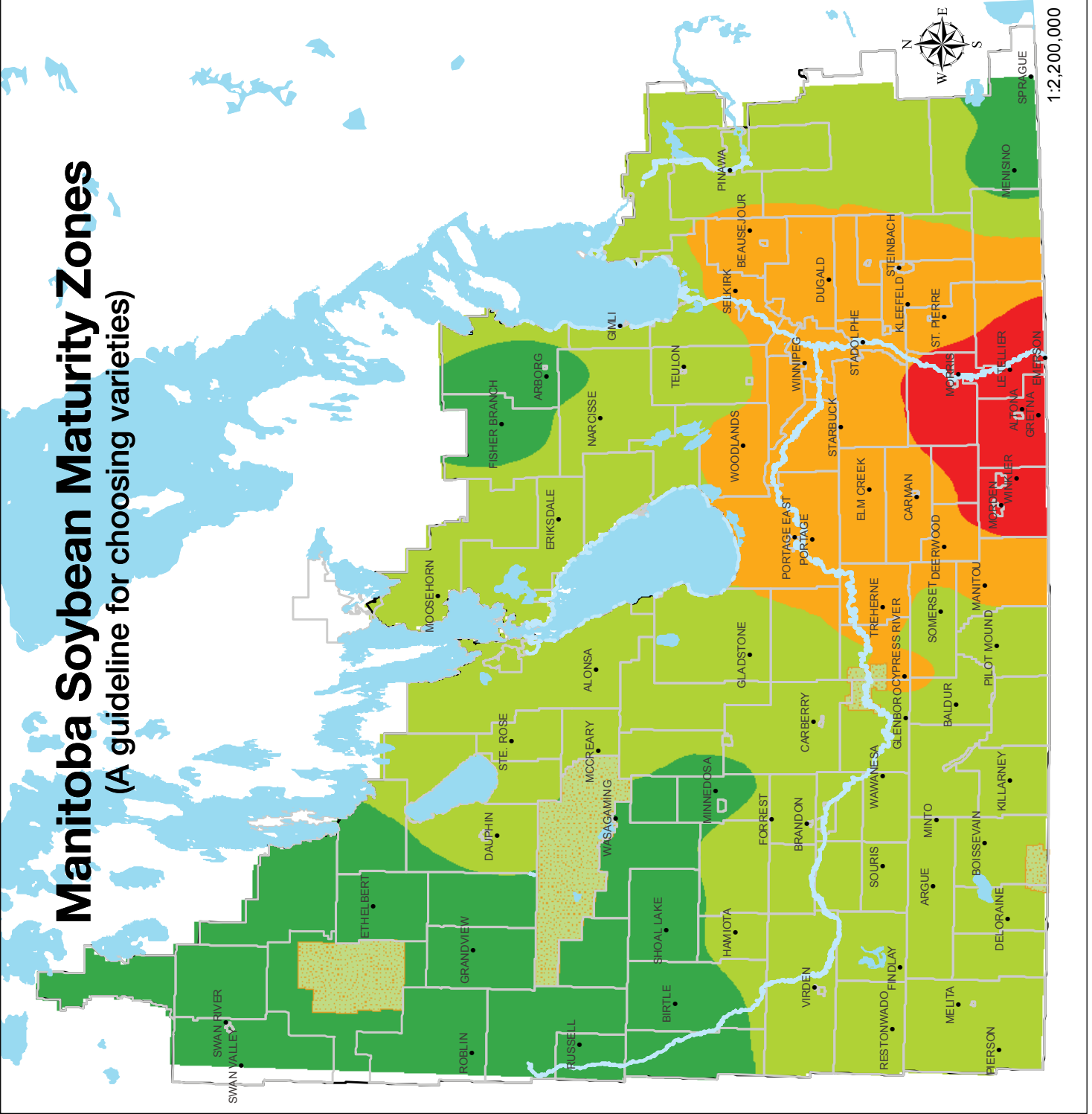
## Maturity Zones

-  Very Early
-  Early
-  Mid
-  Long

Maturity Zone	CHU	FFP (days)	Maturity Grouping
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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