

2020 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 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.

Field pea variety evaluations were coordinated with the Saskatchewan Regional Variety Testing Program. 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 2020, reported by eastern and western regions in Manitoba. In eastern Manitoba, there are short-, mid- and long-season locations.

Mid- to long-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 Boissevain, Dauphin, Hamiota, Melita and Swan River.

Herbicide tolerant first-year entry trials were also carried out at six of the 12 sites, including Boissevain, Carman, Hamiota, Melita, Morris and St. Adolphe.

Conventional (non-GM) soybean varieties were tested at all sites listed for 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- (>24 inches) and narrow-row (<12 inches) trials, and are reported separately in this guide.

Wide-row trials were conducted at five locations – Carman, Morden, Melita, Portage la Prairie and Winkler.

Narrow-row trials were conducted at four locations – Melita, Minto, Morden and Portage la Prairie.

Dry bean varieties are also reported by market class. These include navy, black, pinto, pink, Great Northern, dark red kidney, light red kidney and cranberry.

LENTILS

No lentil trials were conducted in Manitoba due to a lack of seed supply in the spring of 2020.

FIELD PEAS

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

FABA BEANS

Registration trials were conducted at Roblin and Stonewall. Registered varieties

from these trials are reported by tannin and zero-tannin types.

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). Yields 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, 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.

TSW (g/1000 seeds) – The thousand seed 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.

Manitoba Soybean Maturity Zones

(A guideline for choosing varieties)

Map Elements

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

Maturity Zones

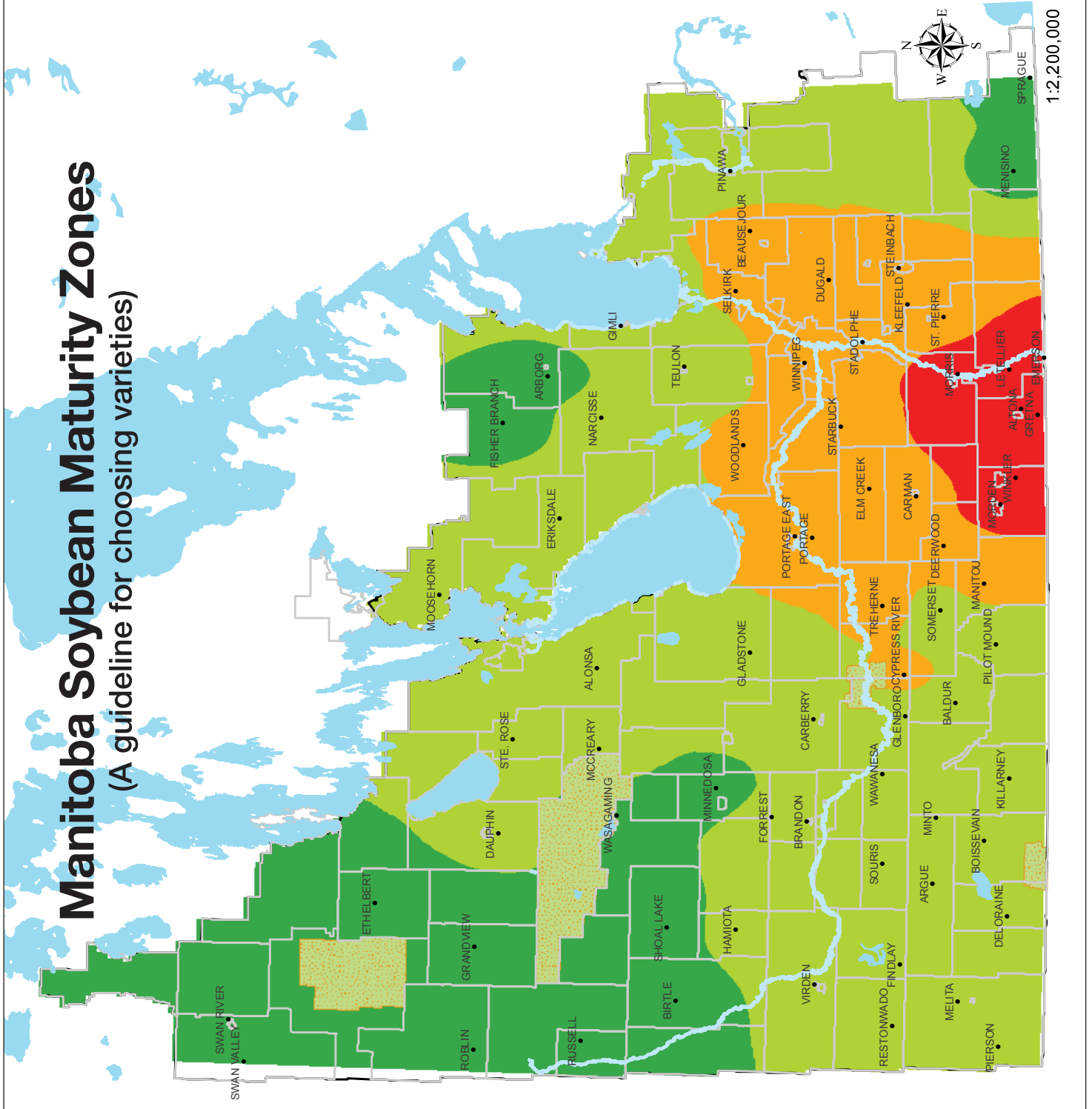
-  Very Early
-  Early
-  Mid
-  Long

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_{min} > 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.



1:2,200,000

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 (page 2), 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

2 = yellowish leaves

3 = green veins with yellow leaves

4 = brown dead tissue

between green veins

5 = severe chlorosis and a stunted growing point



IDC Rating 1



IDC Rating 1.7



IDC Rating 2.1



IDC Rating 2.5



IDC Rating 3.5



IDC Rating 4.0

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

Soluble Salt (mmhos/cm)	Carbonate (%)		
	0 to 2.5	2.6 to 5	>5.0
0 to 0.25	Low	Low	Moderate
0.26 to 0.50	Low	Moderate	High
0.50 to 1.0	Moderate	High	Very high
>1.0	High	Very high	Extreme

Source: Agvise Laboratories

IDC Groups

T = tolerant ST = semi-tolerant S = susceptible

SCN – Variety resistance to soybean cyst nematode (SCN). The presence of SCN was confirmed for the first time in Manitoba in 2019. For full details of SCN findings, visit manitobapulse.ca.

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

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.

* (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.

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
Early-Season Zone	Devo R2X	-6	86	87	96	77	89	90
	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
CHECK CHARACTERISTICS								
	P007A90R	114	55	43	48	58	54	32
		DTM			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
		Seeding Date	May 19	May 23	May 26	May 22	Jun 3	May 20
		Harvest Date	Oct 8	Sep 29	Oct 1	Sep 30	Oct 6	Sep 22

† Maturity ratings were averaged across the 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 ♦ 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	-
CHECK CHARACTERISTICS		Akras R2	124 DTM	54 bu/ac	31 site years					48	45	55	66	44
								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.

* (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.

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

Manitoba Maturity Zone	Variety	DTM +/- Check†	2020 Yield % Check		
			Carman	Morris	St. Adolphe
Very Early-Season Zone	Halo R2X	-7	96	72	86
	Aveta R2X	-6	113	77	60
	Experimental lines that are being tested/proposed for registration in Canada				
	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
	Experimental lines that are being tested/proposed for registration in Canada				
	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
	Experimental lines that are being tested/proposed for registration in Canada				
	TH79009E	3	127	108	104
CHECK CHARACTERISTICS					
	P007A90R	115 DTM	43	59 bu/ac	35
			CV %	7.2	6.5
			LSD %	14	10
			Sign. Diff.	yes	yes
		Seeding Date	May 26	May 22	May 20
		Harvest Date	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†	2020 Yield % Check		
			Hamiota	Melita	
Very Early-Season Zone	DKB0003-24	-6	115	91	
	Mynarski R2X	-6	118	97	
	Halo R2X	-5	119	90	
	Experimental lines that are being tested/proposed for registration in Canada				
	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	
	Experimental lines that are being tested/proposed for registration in Canada				
	CFS20.1.R2	-1	86	86	
	CFS20.2.R2	-1	108	90	
Mid-Season Zone	Hart R2X	2	135	101	
	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	
	Experimental lines that are being tested/proposed for registration in Canada				
	CFS20.3 R2	3	111	100	
	PV EXP 20-S4	5	106	100	
	EXP00520XR	5	109	96	
CHECK CHARACTERISTICS					
	Akras R2	108 DTM	52	64	
			bu/ac		
		CV %	5.8	4.4	
		LSD %	11	7	
		Sign. Diff.	yes	yes	
		Seeding Date	May 16	May 19	
		Harvest Date	Oct 1	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	
	00.2	Siberia	-2	110	11	IY	1.9	ST	
	00.3	OAC Prudence	0	100	136	Y	1.6	T	
Mid-Season Zone	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	
	Experimental lines that are being tested/proposed for registration in Canada								
	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		
Long-Season Zone	00.3	PR130167Z1-02	6	111	3	BR	1.8	ST	
	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	
	Experimental lines that are being tested/proposed for registration in Canada								
	00.7	CER14-142	9	111	6	Y	2.1	ST	
	00.9	DL18.3004	11	117	6	Y	2.1	ST	
	CHECK CHARACTERISTICS								
	OAC Prudence	112 DTM	47 bu/ac	136 site years					

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

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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	
	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	
Mid-Season Zone	Abaca	6	-	-	-	133	134	117	
	DH863	6	-	-	-	99	99	87	
	Experimental lines that are being tested/proposed for registration in Canada								
	SVX21T000S1	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	
	Meteor	7	100	102	99	96	97	88	
	Aurelina	8	-	-	-	127	117	108	
Long-Season Zone	Maya*	9	-	-	-	105	102	96	
	Stanley	10	-	-	-	109	112	91	
	Astor	12	-	-	-	104	110	97	
	Experimental lines that are being tested/proposed for registration in Canada								
	CER14-142	9	110	116	116	110	121	95	
	DL18.3004	11	-	-	-	114	112	99	
	CHECK CHARACTERISTICS								
OAC Prudence		112 DTM	44	52	32	40	51	52	
		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.

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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	
	Siberia	-2	103	4	IY	102	109	
	Liska*	-1	111	2	IY	100	112	
Mid-Season Zone	OAC Prudence	0	100	9	Y	100	100	
	Maxus	0	95	6	Y	93	100	
	Maya*	4	97	2	IY	88	89	
	Experimental lines that are being tested/proposed for registration in Canada							
	PR130933Z-05	-1	92	2	Y	95	89	
	PR130167Z1-02	4	90	2	BR	98	81	
CHECK CHARACTERISTICS								
OAC Prudence		118 DTM	36 bu/ac	9 site years		39	31	
		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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Key for Field Pea Variety Tables

Maturity Ratings – early = -3 days relative to the check
mid = -2 to -1 days late = 0 to +3 days

Relative Vine Length – S = short M = medium L = long
VL = very 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*.

Mycosphaerella Blight – All pea varieties listed have “fair”
resistance to *Mycosphaerella* (*Ascochyta*) blight.

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	TSW (g/1000 seeds)	Resistance						
						Green Seed Coats	Seed Coat Breakage	Seed Coat Dimpling	Seed Coat Bleaching	Lodging	Powdery Mildew	Fusarium Wilt
YELLOW												
AAC Ardill	mid	99	35	M	240	G	G	G	<i>n/a</i>	G	VG	G
AAC Asher*	mid	102	12	S	260	G	F	F	<i>n/a</i>	G	VG	F
AAC Carver*	early	104	29	L	240	G	G	G	<i>n/a</i>	G	VG	F
AAC Chrome*	long	108	25	M	240	G	G	G	<i>n/a</i>	G	VG	F
AAC Delhi*	mid	102	13	M	290	G	F	F	<i>n/a</i>	G	VG	F
AAC Lacombe**	long	100	33	L	270	F	F	G	<i>n/a</i>	G	VG	F
AAC Profit*	long	101	12	M	230	G	F	G	<i>n/a</i>	G	VG	F
CDC Amarillo	long	100	35	M	230	G	F	F	<i>n/a</i>	VG	VG	G
CDC Athabasca*	long	96	19	L	300	G	F	F	<i>n/a</i>	VG	VG	G
CDC Canary*	early	98	19	L	230	F	G	F	<i>n/a</i>	VG	VG	F
CDC Inca*	mid	104	33	L	230	F	G	G	<i>n/a</i>	G	VG	F
CDC Lewochko*	mid	103	19	L	230	G	G	G	<i>n/a</i>	VG	VG	F
CDC Meadow	early	97	85	M	220	G	G	G	<i>n/a</i>	G	VG	F
CDC Saffron	mid	97	49	M	250	G	G	F	<i>n/a</i>	G	VG	F
CDC Spectrum*	long	95	19	L	240	G	G	G	<i>n/a</i>	VG	G	F
GREEN												
AAC Comfort*	long	97	24	M	260	<i>n/a</i>	G	G	G	G	VG	F
Blueman*	long	96	6	M	230	<i>n/a</i>	VG	G	F	G	VG	F
CDC Forest*	long	101	19	L	230	<i>n/a</i>	G	G	G	G	VG	F
CDC Greenwater	mid	97	34	M	220	<i>n/a</i>	VG	G	G	G	VG	G
CDC Limerick	long	96	34	M	210	<i>n/a</i>	VG	G	G	VG	VG	F
CDC Spruce*	long	98	19	L	240	<i>n/a</i>	F	F	G	G	VG	F
CDC Striker	early	87	89	M	230	<i>n/a</i>	VG	G	G	VG	P	G
MAPLE												
AAC Liscard	early	93	24	M	180	<i>n/a</i>	–	–	<i>n/a</i>	G	VG	–
FORAGE												
DL Delicious	long	73	6	VL	220	–	VG	F	<i>n/a</i>	F	–	–
DL Goldeye*	long	69	13	VL	160	G	VG	VG	<i>n/a</i>	VP	–	–
DL Lacross	mid	86	13	VL	190	F	VG	G	<i>n/a</i>	G	–	–
CHECK CHARACTERISTICS												
CDC Amarillo	94 DTM	76 bu/ac	35 site years									

† Maturity ratings were averaged across Hamiota, Melita, Morden and Swan River. * (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. ** (P) Indicates a variety that is protected by Plant Breeder's Rights legislation that complies with UPOV 1978.

FIELD PEAS ♦ YIELDS BY LOCATION

Market Class/Variety	2020 Yield % Check					
	Carberry	Hamiota	Melita	Morden	Roblin	Swan River
YELLOW						
AAC Ardill	112	101	98	109	125	109
AAC Asher	106	88	108	118	100	109
AAC Carver*	107	91	100	110	116	102
AAC Chrome*	116	85	107	121	113	114
AAC Delhi*	95	94	105	117	111	110
AAC Lacombe**	109	90	98	122	106	109
AAC Profit*	112	93	98	100	111	109
CDC Amarillo	100	100	100	100	100	100

continued ➤

Market Class/Variety	2020 Yield % Check					
	Carberry	Hamiota	Melita	Morden	Roblin	Swan River
CDC Athabasca*	110	94	97	90	101	103
CDC Canary*	113	99	91	102	115	102
CDC Inca*	118	106	101	112	104	111
CDC Lewochko*	100	116	98	99	107	108
CDC Meadow	100	97	100	108	88	106
CDC Saffron	109	89	91	106	99	101
CDC Spectrum*	89	90	94	98	95	104
GREEN						
AAC Comfort*	122	89	101	97	115	107
Blueman*	98	85	95	94	121	107
CDC Forest*	112	102	101	86	102	107
CDC Greenwater	107	98	93	101	95	105
CDC Limerick	97	101	96	97	88	98
CDC Spruce*	88	88	97	100	113	107
CDC Striker	99	81	89	96	105	93
MAPLE						
AAC Liscard	97	89	96	101	100	96
FORAGE						
DL Delicious	95	66	67	89	78	70
DL Goldeye*	82	71	57	61	85	66
DL Lacross	98	86	95	103	93	71
CHECK CHARACTERISTICS						
CDC Amarillo	94	67	94	78	72	92
	bu/ac					
CV %	10.2	4.5	7.2	6.8	11.0	4.8
LSD %	17	7	11	11	19	8
Sign. Diff.	yes	yes	yes	yes	yes	yes
Seeding Date	May 6	May 7	May 6	May 19	May 7	May 14
Harvest Date	Aug 24	Aug 25	Aug 17	Aug 24	Aug 27	Aug 27

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** Indicates a variety that is protected by Plant Breeder's Rights legislation that complies with UPOV 1978.

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 +/- Check	Yield % Check	Site Years Tested	TSW (g/1000 seeds)	2020 Yield % Check	
					Roblin	Stonewall
COLOURED FLOWER (TANNIN)						
Fabelle*	0	100	1	533	100	100
CHECK CHARACTERISTICS						
Fabelle	105 DTM	3852 lbs/ac	5 site years		3768 lbs/ac	4118 lbs/ac
WHITE FLOWER (ZERO TANNIN)						
Snowbird**	0	100	16	495	–	100
DL Rico*	5	89	3	566	–	93
DL Tesoro*	6	109	3	511	–	103
CHECK CHARACTERISTICS						
Snowbird	104 DTM	4824 lbs/ac	16 site years		– lbs/ac	3748 lbs/ac
				CV %	–	5.1
				LSD %	–	8
				Sign. Diff.	–	yes
				Seeding Date	May 7	May 17
				Harvest Date	Sep 10	Sep 8

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

** Indicates a variety that is protected by Plant Breeder's Rights legislation that complies with UPOV 1978.

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 (R9).

DRY BEANS ♦ VARIETY DESCRIPTIONS

Market Class/Variety	DTM +/- Check	Yield % Check	Site Years Tested	TSW (g/1000 seeds)	Lodging (1–5)	Plant Height (cm)	Pod Height (% > 5 cm)	CBB Severity (0–5)	CBB Incidence (%)	WM Incidence (%)
NAVY	+/- T9905	% T9905								
AAC Shock	-2	97	8	209	2	52	90	2	21	0
Bolt	-2	93	19	204	1	53	90	2	19	0
Indi	-2	101	28	172	1	55	92	3	19	0
AAC Argosy	-1	104	12	193	2	54	91	2	18	0
Armada	0	97	4	187	2	58	88	2	17	0
Nautica	0	89	18	163	2	52	93	2	20	0
T9905	0	100	36	199	2	53	90	2	15	0
HMS Medalist	1	99	6	192	2	57	88	3	17	0
SV1893GH*	1	95	13	194	2	55	88	1	10	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	-1	103	6	204	2	56	89	2	16	0
15095	3	101	6	204	3	58	88	3	25	0
CHECK CHARACTERISTICS										
T9905	100 DTM	2366 lbs/ac	36 site years							
BLACK	+/- Eclipse	% Eclipse								
CDC Blackstrap*	-5	94	17	209	1	44	89	2	13	0
Ace	-2	99	6	195	2	55	92	3	17	0
CDC Jet	-1	89	43	192	1	50	95	2	15	0
CDC Superjet	-1	88	31	198	2	50	92	2	15	0
Black Tails	0	98	6	197	2	55	90	3	25	0
Eclipse**	0	100	45	192	1	54	93	3	20	0
Zenith	3	96	6	220	1	51	93	3	33	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
W11-02-152	0	83	2	234	2	58	88	3	25	0
CHECK CHARACTERISTICS										
Eclipse	96 DTM	2449 lbs/ac	45 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	104	24	332	2	54	87	3	20	0
Vibrant	-2	108	17	327	2	63	86	3	27	0
SV6533GR*	-1	97	9	423	3	55	78	3	22	0
Windbreaker	0	100	52	359	3	50	81	3	22	0
Cowboy*	0	108	6	375	2	63	88	3	23	0
Monterrey	2	106	20	350	3	65	87	3	18	0

continued ▶

Market Class/Variety	DTM +/- Check	Yield % Check	Site Years Tested	TSW (g/1000 seeds)	Lodging (1-5)	Plant Height (cm)	Pod Height (% > 5 cm)	CBB Severity (0-5)	CBB Incidence (%)	WM Incidence (%)
La Paz	4	99	21	320	3	61	86	3	26	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
16-NP1	4	86	4	323	3	64	88	2	20	0
19-382	5	89	4	431	3	53	86	2	20	0
ND Palomino*	5	106	6	387	4	59	82	3	23	0
19-279	7	96	4	396	3	66	87	2	17	0
CHECK CHARACTERISTICS										
Windbreaker	93 DTM	2657 lbs/ac	56 site years							
GREAT NORTHERN										
Aries	+/- Pink Panther -2	% Pink Panther 135	13	370	3	50	87	3	30	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
Powderhorn	-3	133	8	363	3	47	84	3	25	3
DARK RED KIDNEY										
Red Hawk	+/- Pink Panther 4	% Pink Panther 65	15	525	2	36	86	3	28	0
Dynasty	6	96	6	509	3	61	84	3	26	0
Montcalm	6	81	5	460	2	47	86	4	32	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
161164	5	74	3	383	3	51	85	3	24	2
Red Rover	5	56	6	428	3	51	82	3	27	0
LIGHT RED KIDNEY										
Big Red	+/- Pink Panther 0	% Pink Panther 99	24	503	2	45	86	3	27	0
Pink Panther	0	100	56	513	2	50	88	3	30	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
Red Dawn	-9	99	8	511	1	48	84	3	23	0
CHECK CHARACTERISTICS										
Pink Panther	99 DTM	1981 lbs/ac	56 site years							
CRANBERRY										
OAC Racer	+/- Etna -1	% Etna 110	3	478	1	48	85	3	30	0
Etna	0	100	58	509	1	44	84	3	34	0
OAC Candycane	4	134	3	501	1	52	88	2	13	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
Amaranto	-3	101	3	459	1	47	87	3	30	0
CR10875	-1	92	2	524	1	37	90	3	43	0
Krimson	-1	103	21	520	3	45	81	3	25	0
AGT01	1	76	3	499	1	44	82	3	33	0
CHECK CHARACTERISTICS										
Etna	99 DTM	1759 lbs/ac	58 site years							

This long-term data is based on results from wide row trials. * Indicates a variety that is protected by, or has been applied for and pending, Plant Breeder's Rights legislation that complies with UPOV 1991.

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DRY BEANS ♦ YIELDS BY LOCATION ♦ WIDE ROW

2020 Yield % Check

Market Class/ Variety	DTM +/- Check	2020 Yield % Check			
		Carman	Morden	Portage	Winkler
NAVY	+/- T9905			% T9905	
AAC Shock	-2	79	100	108	95
Bolt	-2	99	93	96	99
Indi	-2	97	96	88	120
AAC Argosy	-1	87	114	122	114
Armada	0	86	112	72	110
Nautica	0	79	91	85	87
T9905	0	100	100	100	100
HMS Medalist	1	85	97	91	117
SV1893GH*	1	77	113	107	104

continued ►

Market Class/Variety	DTM +/- Check	2020 Yield % Check			
		Carman	Morden	Portage	Winkler
Varieties that are registered in the US or being tested or proposed for registration in Canada					
15094	-1	99	102	92	116
15095	3	90	96	69	118
CHECK CHARACTERISTICS					
T9905	100	2139	1735	1717	3131
	DTM	lbs/ac			
	CV %	9.1	11.2	11.7	7.7
	LSD %	14	18	18	14
	Sign. Diff.	yes	yes	yes	yes
	Seeding Date	Jun 6	Jun 3	Jun 5	Jun 5
	Harvest Date	Sep 29	Sep 14	Oct 8	Oct 15
BLACK					
	+/- Eclipse	% Eclipse			
CDC Blackstrap	-5	133	109	133	94
Ace	-2	120	103	125	98
CDC Jet	-1	103	98	92	94
CDC Super Jet	-1	97	76	107	86
Black Tails	0	98	107	110	102
Eclipse**	0	100	100	100	100
CHECK CHARACTERISTICS					
Eclipse	96	1800	1613	1476	3604
	DTM	lbs/ac			
	CV %	9.1	11.2	11.7	7.7
	LSD %	16	20	21	12
	Sign. Diff.	yes	yes	yes	yes
	Seeding Date	Jun 6	Jun 3	Jun 5	Jun 5
	Harvest Date	Sep 29	Sep 14	Oct 8	Oct 15
PINTO					
	+/- of Windbreaker	% of Windbreaker			
SV6139GR*	-2	116	109	103	103
Vibrant	-1	122	119	102	114
Windbreaker	0	100	100	100	100
Cowboy*	3	117	109	105	107
Monterrey	3	100	106	101	110
La Paz	5	113	116	95	101
Varieties that are registered in the US or being tested or proposed for registration in Canada					
16-NP1	4	90	90	80	86
19-382	5	94	94	81	89
ND Palomino*	5	108	100	103	100
19-279	7	100	99	90	97
CHECK CHARACTERISTICS					
Windbreaker	93	2038	2303	2899	3680
	DTM	lbs/ac			
	CV %	10.9	6.9	9.3	12.7
	LSD %	20	12	16	-
	Sign. Diff.	yes	yes	yes	no
	Seeding Date	Jun 6	Jun 3	Jun 5	Jun 5
	Harvest Date	Sep 29	Sep 15	Oct 8	Oct 15
GREAT NORTHERN					
Aries	+/- Pink Panther	% Pink Panther			
	-2	130	119	-	118
DARK RED KIDNEY					
Dynasty	+/- Pink Panther	% Pink Panther			
	-	100	83	-	87
Varieties that are registered in the US or being tested or proposed for registration in Canada					
161164	5	80	63	-	77
Red Rover	5	54	57	-	55
LIGHT RED KIDNEY					
Big Red	+/- Pink Panther	% Pink Panther			
	0	104	99	-	85
Pink Panther	0	100	100	-	100
Varieties that are registered in the US or being tested or proposed for registration in Canada					
Red Dawn	-9	111	89	-	107
CHECK CHARACTERISTICS					
Pink Panther	99	1699	1924	-	2787
	DTM	lbs/ac			
	CV %	13.9	9.6	-	11.9
	LSD %	24	14	-	18
	Sign. Diff.	yes	yes	-	yes
	Seeding Date	Jun 6	Jun 3	Jun 5	Jun 5
	Harvest Date	Sep 29	Sep 21	Oct 8	Oct 15

Market Class/ Variety	DTM +/- Check	2020 Yield % Check			
		Carman	Morden	Portage	Winkler
CRANBERRY	+/- Etna			% Etna	
OAC Racer	-1	125	119	-	95
Etna	0	100	100	-	100
OAC Candycane	4	128	123	-	146
Varieties that are registered in the US or being tested or proposed for registration in Canada					
Amaranto	-3	108	96	-	99
Krimson	-1	140	132	-	95
AGT01	1	98	79	-	61
CHECK CHARACTERISTICS					
Etna	99	1507	1520	-	2401
	DTM			lbs/ac	
	CV %	13.9	9.6	-	11.9
	LSD %	27	18	-	21
	Sign. Diff.	yes	yes	-	yes
	Seeding Date	Jun 6	Jun 3	Jun 5	Jun 5
	Harvest Date	Sep 29	Sep 21	Oct 8	Oct 15

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DRY BEANS ♦ YIELDS BY LOCATION ♦ NARROW ROW

Market Class/ Variety	DTM +/- Check	Yield % Check	Site Years Tested	2020 Yield % Check		
				Melita	Morden	Portage
NAVY	+/- CDC Blackstrap	% CDC Blackstrap			% CDC Blackstrap	
HMS Medalist	3	78	3	91	57	86
SV1893GH*	4	88	5	85	75	67
Indi	5	94	7	102	105	88
AAC Argosy	7	90	5	99	93	82
Bolt	7	81	14	102	72	57
AAC Shock	8	84	10	101	81	72
T9905	8	86	12	107	80	67
Nautica	10	85	7	99	57	57
BLACK	+/- CDC Blackstrap	% CDC Blackstrap			% CDC Blackstrap	
CDC Blackstrap*	0	100	23	100	100	100
CDC Jet	5	88	23	110	84	75
CDC Superjet	5	95	23	102	81	80
Eclipse**	6	101	11	114	91	86
CHECK CHARACTERISTICS						
CDC Blackstrap	93	2780	23	3048	3438	3827
	DTM	lbs/ac	site years		lbs/ac	
			CV %	7.7	8.4	9.2
			LSD %	13	12	12
			Sign. Diff.	yes	yes	yes
			Seeding Date	May 19	Jun 3	Jun 5
			Harvest Date	Sep 9	Sep 21	Oct 8
PINTO	+/- Windbreaker	% Windbreaker			% Windbreaker	
SV6139GR*	0	109	8	111	108	130
Windbreaker	0	100	15	100	100	100
Varieties that are registered in the US or being tested or proposed for registration in Canada						
ND Palomino*	1	102	3	111	98	98
CHECK CHARACTERISTICS						
Windbreaker	98	2505	15	3007	3516	2883
	DTM	lbs/ac	site years		lbs/ac	
			CV %	7.7	8.4	9.2
			LSD %	13	12	16
			Sign. Diff.	yes	yes	yes
			Seeding Date	May 19	Jun 3	Jun 5
			Harvest Date	Sep 9	Sep 21	Oct 8

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Manitoba Pulse and Soybean Buyer List – November 2020

COMPANY	EDIBLE BEANS	FABA BEANS	LENTILS	PEAS	SOYBEANS	PHONE	LOCATION	CGC REGULATED
Alliance Pulse Processors Inc. dba AGT Foods Canada	✓	✓	✓	✓	✓	306-525-4490	Regina, SK	✓
• AGT Foods St. Joseph	✓		✓	✓	✓	204-737-2625	St. Joseph, MB	✓
All Commodities (AC) Trading Ltd.			✓	✓		204-339-8001	Winnipeg, MB	✓
Avena Foods Ltd. dba Best Booking Pulses Inc			✓	✓		204-857-4451	Portage la Prairie, MB	✓
Belle Pulses Ltd.		✓		✓		306-423-5202	Bellevue, SK	✓
Besco Grain Ltd.		✓		✓		204-745-3662	Carman, MB	✓
Brett-Young Seeds				✓	✓	204-261-7932	Winnipeg, MB	
BroadGrain Commodities Inc.	✓	✓	✓	✓	✓	416-504-0070	Toronto, ON	✓
C.B. Constantini Ltd.				✓		604-669-1212	Vancouver, BC	✓
Cargill Ltd.					✓	204-947-6219	Winnipeg, MB	✓
Columbia Grain Inc. (CGI) (Walhalla Bean Co.)	✓					701-549-3721	Walhalla, ND	✓
Delmar Commodities Ltd.	✓		✓	✓	✓	204-331-3696	Winkler, MB	✓
ETG Commodities	✓	✓	✓	✓	✓	416-900-4148	Mississauga, ON	✓
G3 Canada Limited				✓		204-983-0239	Winnipeg, MB	✓
Gavilon Grain LLC					✓	816-584-2210	Omaha, NB	✓
Global Food and Ingredients Inc.		✓	✓	✓		416-840-8590	Toronto, ON	✓
Global Grain Canada Ltd.	✓					204-829-3641	Plum Coulee, MB	
Hensall District Co-op	✓			✓		204-295-3938	Winnipeg, MB	✓
Horizon Agro Inc.					✓	204-746-2026	Morris, MB	
Kalshea Commodities Inc.			✓	✓		204-272-3773	Winnipeg, MB	✓
Knight Seeds			✓	✓		204-764-2450	Hamiota, MB	
Linear Grain Inc.	✓	✓		✓	✓	204-745-6747	Carman, MB	✓
Louis Dreyfus Company Canada ULC				✓	✓	403-205-3322	Calgary, AB	✓
Marina Commodities Inc.			✓	✓		204-937-2300	Roblin, MB	✓
Masterfeeds		✓		✓		403-327-2555	Lethbridge, AB	
McDougall Acres Ltd.	✓	✓	✓	✓	✓	306-693-3649	Moose Jaw, SK	
Monsanto					✓	-	Winnipeg, MB	
Natural Proteins Inc.					✓	204-355-5040	Blumenort, MB	
Nu-Vision Commodities	✓			✓	✓	204-758-3401	St. Jean Baptiste, MB	
Parrheim Foods				✓		306-931-1655	Saskatoon, SK	✓
Parrish & Heimbecker Ltd.				✓	✓	204-987-4320	Winnipeg, MB	✓
Paterson Grain	✓			✓	✓	204-956-2090	Winnipeg, MB	✓
• FeedMax Corp.				✓		204-523-0682	Killarney, MB	✓
Pipeline Foods, ULC				✓	✓	204-594-8750	Winnipeg, MB	✓
Prairie Fava Ltd.		✓				204-721-4715	Glenboro, MB	
Providence Grain Group			✓	✓	✓	780-997-0211	Fort Saskatchewan, AB	✓
PS International, LLC DBA Seaboard Special Crops		✓	✓	✓		306-565-3934	Regina, SK	✓
Richardson International Ltd.				✓		204-934-5627	Winnipeg, MB	✓
• Richardson Pioneer Limited				✓	✓	204-934-5627	Winnipeg, MB	✓
• Tri Lake Agri Limited				✓		204-523-5380	Killarney, MB	✓
Roquette Canada Ltd.				✓		204-428-3722	Portage la Prairie, MB	✓
Rudy Agro Ltd.	✓		✓	✓		306-867-8667	Outlook, SK	✓
Scouler Canada Ltd.	✓	✓	✓	✓		403-720-9050	Calgary, AB	✓
Seed-Ex Inc.				✓	✓	204-737-2000	Letellier, MB	✓
Semences Prograin Inc.					✓	450-469-5744	Saint-Césaire, QC	
Shafer Commodities Inc.	✓	✓	✓	✓	✓	204-822-6275	Morden, MB	✓
Simpson Seeds Inc.			✓			306-693-2132	Moose Jaw, SK	✓
Southland Pulse Inc.			✓	✓		306-634-8008	Estevan, SK	✓
The Andersons Inc.			✓	✓		419-891-6464	Maumee, OH	✓
Vandaele Seeds Ltd.		✓		✓		204-665-2384	Medora, MB	✓
Vanderveen Commodity Services Ltd.				✓	✓	204-745-6444	Carman, MB	✓
Viterra Inc.	✓		✓	✓	✓	Contact your local Viterra sales representative		✓
Western Harvest Bean ULC	✓					204-515-7331	Winnipeg, MB	
Wilbur Ellis Company of Canada Ltd.	✓		✓	✓		204-867-8163	Minnedosa, MB	✓
XPT Grain Inc.	✓			✓		306-525-0205	Regina, SK	✓

The Canada Grain Act requires some elevators and grain dealers to have a Canadian Grain Commission (CGC) license and post security to cover their liabilities (what they owe) to farmers. Grain dealers and operators of primary, terminal and process elevators in western Canada are licensed by the CGC. Seed cleaning plants, which do not purchase grain, and feed mills do not have to be licensed.

It is the responsibility of farmers to satisfy themselves that any company they deal with is financially sound. Questions regarding licencing and security should be directed to the CGC at 800-853-6705 or 204-983-2770.

MPSG's pulse crop buyers list contains the names of companies that have registered with MPSG and are actively purchasing pulse and soybean crops in Manitoba. The word *registered* does not imply endorsement. The complete list is available on our website manitobapulse.ca.