

# 2022 PULSE AND SOYBEAN VARIETY GUIDE



*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.*

*Soybean and dry bean trials were sponsored and co-ordinated by MPSG. Field pea and faba bean trials were co-ordinated by the Manitoba Crop Variety Evaluation Team (MCVET) and co-sponsored by MPSG, MCVET and Manitoba Agriculture.*

## SOYBEANS

Herbicide tolerant soybean varieties were evaluated at 12 locations in 2022, reported by eastern and western regions in Manitoba. In eastern Manitoba, early- and mid-season varieties were tested at early sites, including Arborg, Beausejour and Stonewall, and all types of varieties were tested at core sites, including Carman, Portage la Prairie and St. Adolphe. In western Manitoba, varieties were tested at Dauphin, Hamiota, Holland, Melita, Souris and Swan River.

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

Conventional (non-GM) soybean varieties were tested at all sites listed for eastern Manitoba and at Melita and Swan River in western Manitoba.

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 four locations – Carman, Morden, Portage la Prairie and Winkler.

Narrow-row trials were conducted at five locations – Melita, Morden, Portage la Prairie, Souris and Swan River, a new location.

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

## FIELD PEAS

Trials were conducted at 10 locations in Manitoba, including Arborg, Carberry, Hamiota, Holland, Melita, Morden, Portage la Prairie, Roblin, Souris and Swan River. Field pea varieties are reported by yellow, green, maple and forage market classes.

## FABA BEANS

Regional faba bean trials were conducted for the second year in Manitoba at

Dauphin, Morden and Swan River, a new location.

## 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 individual 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, 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

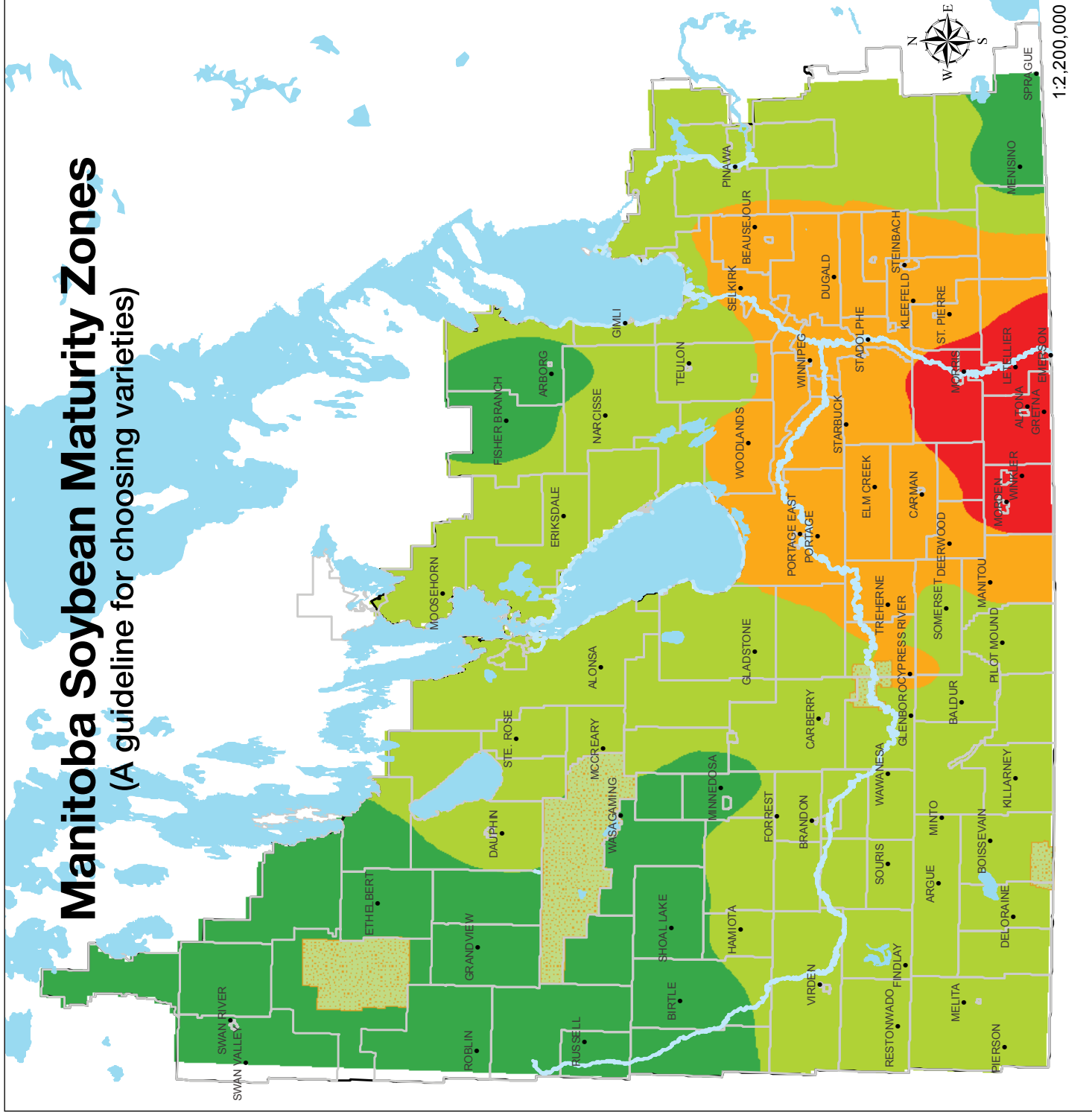
## Maturity Zones

- 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<sub>min</sub> > 0°C).

The map outlines the longest maturity suggested for each production area, but earlier varieties can also perform well. Use in conjunction with the *Pulse and Soybean Variety Guide*, which outlines varieties according to maturity zones.



1:2,200,000

## 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.

WPX = Blended Variety Xtend® Tolerant.

**DTM +/- Check** – The number of days from planting to full maturity (R8 or 95% brown pod). It is expressed as + or – days relative to the check variety. Actual days to maturity (DTM) for the check variety is found in the shaded area at the bottom of the table. Average DTM is calculated from multiple site-years. It is important to use long-term data for variety selection, as maturity can vary by year.

**Hilum Colour** – The hilum is the area of a soybean seed that was previously attached to the pod. Hilum colour is a marketing factor that varies among soybean varieties. Hilum colour can be clear (CL), yellow (Y), imperfect yellow (IY), grey (GR), light brown (LB), brown (BR), tan (TN), imperfect black (IB) or black (BL).

**IDC Rating and Group** – The iron deficiency chlorosis (IDC) rating is the severity of IDC expressed in a given variety on a 1–5 scale. The IDC group indicates the overall level of tolerance. Each year, ratings are conducted during the V2 to V3 stages at a site near Winnipeg that is prone to IDC. If a field is at moderate to high risk of IDC (Table 1), select a variety with a low (tolerant) rating.

### IDC Ratings

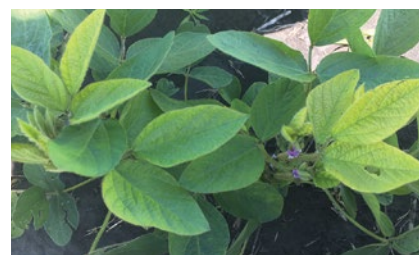
1 = green leaves  
2 = yellowish leaves  
3 = green veins with yellow leaves  
4 = brown dead tissue between green veins  
5 = severe chlorosis and a stunted growing point



IDC Rating 1



IDC Rating 1.7



IDC Rating 2.1



IDC Rating 2.5



IDC Rating 3.5



IDC Rating 4.0

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

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

Source: Agvise Laboratories

### IDC Groups

T = tolerant ST = semi-tolerant S = susceptible

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

**PRR** – Phytophthora root rot (PRR) race-specific resistance genes for each variety. Resistance genes that correspond with prevalent races in Manitoba are listed in Table 2. A new pathotype was most prevalent in Manitoba in 2018, according to Agriculture and Agri-Food Canada research. Soybean varieties with the rps 6 gene are resistant to this new pathotype.

Table 2. Resistance to *Phytophthora sojae* (rps) genes currently available in Manitoba for control of Phytophthora root rot.

Race of <i>P. sojae</i>	Rps Gene				
	1a	1c	1k	3a	6
New Pathotype	S	S	S	S	R
25	S	S	S	R	R
4	S	S	R	R	R
28	S	R	S	R	R
3	S	R	R	R	R

S = susceptible R = resistant

Source: Debra McLaren, AAFC

# HERBICIDE TOLERANT SOYBEANS ♦ VARIETY DESCRIPTIONS ♦ EASTERN MANITOBA

Manitoba Maturity Zone	Company Maturity Group	Variety	Type	Average DTM +/- Check†	Long-Term Yield % Check	Site-Years Tested	Hilum Colour	IDC		Resistance	
								Rating (1–5)	Group	SCN	PRR
Very Early-Season Zone	000.5	BY Rundle XT	R2X	-13	78	10	BL	2.1	ST	yes	1c, 3a
	000.8	NSC Dauphin RR2X	R2X	-12	78	10	IY	2.3	S	–	1c
	00.1	P001A48X	R2X	-7	95	21	TN	1.8	ST	–	1c
	00.3	P003A97X	R2X	-7	98	15	GR	1.8	ST	yes	1k
	00.1	BY Morro XT	R2X	-7	91	4	GR	2.6	S	yes	3b
	00.1	S001-D8X	R2X	-6	87	16	IY	2.0	ST	–	1c
Early-Season Zone	00.1	B0012RX	R2X	-5	95	10	BR	1.7	T	–	1k, 6
	00.3	S003-R5X	R2X	-5	98	7	IY	2.1	ST	–	1c
	00.1	Pikas R2X	R2X	-5	88	4	BL	1.8	ST	yes	1c
	00.4	B0041RX	R2X	-4	102	10	GR	1.7	T	–	1k
	000.9	Young R2X	R2X	-4	98	10	BL	1.7	T	yes	1c
	00.3	Akras R2	R2Y	-3	101	31	BL	1.7	T	–	1c
	000.7	BY Logan XT	R2X	-3	93	4	BL	2.1	ST	yes	1c
	00.3	S003-Z4X	R2X	-3	96	16	BF	1.9	ST	–	1c
	00.1	SI 001XTN	R2X	-3	98	27	BL	1.7	T	yes	1k
	000.9	NSC Arden RR2X	R2X	-3	94	4	BL	2.0	ST	–	1c
	00.5	S005-C9X	R2X	-2	96	16	BL	2.4	S	–	1c
	00.4	Mikado R2X	R2X	-2	96	7	BL	2.0	ST	yes	1c
	00.4	NSC Holland RR2X	R2X	-2	103	10	BR	2.0	ST	–	1c
	00.1	PV 28s001R2X	R2X	-2	93	4	BL	1.8	ST	yes	1c
	00.5	Hart R2X	R2X	-2	99	7	BR	2.0	ST	–	1c
	00.1	NSC EXP001LX	R2X	-2	96	4	IY	2.0	ST	–	1c, 3a
	00.2	PV 22s002 R2X	R2X	-2	99	10	BL	2.0	ST	yes	1k
	Experimental lines that are being tested/proposed for registration in Canada										
	00.1	CP00121WPX	WPX	-3	88	4	BL	2.1	ST	–	–
Mid-Season Zone	00.2	DKB002-32	R2X	-1	99	13	BR	1.8	ST	yes	1k
	00.5	BY Rainier XT	R2X	-1	100	1	BL	1.7	T	–	1c
	00.4	Bourke R2X	R2X	-1	102	24	BL	1.8	ST	–	1k
	00.6	RX Acron	R2X	-1	101	15	BL	1.8	ST	yes	–
	00.6	NSC Sperling RR2Y	R2Y	-1	105	22	IY	1.8	ST	–	1a, 3a
	00.3	Merino R2X	R2X	-1	96	1	BL	1.7	T	yes	1k
	00.5	P005A59E	E3	-1	101	4	BR	1.8	ST	–	1c
	00.3	Sunna R2X	R2X	-1	101	27	GR	1.7	T	yes	1c
	00.2	SI 00221XTN	R2X	-1	93	4	BL	1.9	ST	yes	1c
	00.6	S006-K3X	R2X	0	100	4	BF	1.9	ST	yes	1c
	00.6	P006A37X	R2X	0	108	27	BR	1.8	ST	–	1c
	00.5	DKB005-52	R2X	0	100	32	BL	1.8	ST	yes	1c
	00.5	Mako R2X	R2X	0	112	1	GR	1.8	ST	–	1c
	00.3	TH 87003 R2X	R2X	0	96	31	BL	1.8	ST	yes	1c
	00.4	PV 16s004 R2X	R2X	0	100	27	BL	1.8	ST	yes	1k
	00.6	DKB006-80	R2X	1	111	1	BL	1.9	ST	yes	1c
	00.3	SI 00321XT	R2X	1	99	4	BR	2.3	S	–	1c
	00.4	SI 00421XT	R2X	1	96	4	GR	2.4	S	–	1a, 6
	00.6	SI 00620XTN	R2X	1	103	7	BL	1.8	ST	yes	1c
	00.6	Badger R2X	R2X	2	111	1	BL	1.7	T	–	1k
	00.7	Elmo E3	E3	2	100	9	BR	1.9	ST	yes	–
	00.6	Mao R2X	R2X	2	107	5	BL	1.7	T	yes	1c
	00.8	DKB008-48	R2X	2	111	7	BL	1.8	ST	yes	1c, 1k
	00.7	PV 26s007R2X	R2X	2	100	1	BL	1.9	ST	yes	1c
	00.8	Jaguar R2X	R2X	2	106	1	BL	2.1	ST	–	1c
	00.9	P00A49X	R2X	2	104	17	BR	1.7	T	yes	1c
	00.7	B0071RX	R2X	2	108	1	BR	–	–	yes	1k, 6
	Experimental lines that are being tested/proposed for registration in Canada										
	00.7	CP00722WPX	WPX	1	109	1	BL	2.0	ST	–	1k, 1c, 3a
	00.5	CP005WPRX	WPX	1	99	4	BL	1.9	ST	–	1k, 1c, 3a
Long-Season Zone	00.7	TH82005 R2X	R2X	3	104	10	BR	1.9	ST	–	1k
	00.7	SI 007XTN	R2X	3	103	24	BL	1.8	ST	yes	1c
	00.7	S007-A2XS	R2X	3	106	13	GR	1.8	ST	–	–
	00.8	NSC Winkler RR2X	R2X	3	104	17	BL	1.8	ST	yes	1c
	00.7	TH81007 R2XN	R2X	4	106	5	BR	1.7	T	yes	1c
	00.8	TH82008XF	R2X	7	103	1	BL	2.1	ST	yes	1c
	Experimental lines that are being tested/proposed for registration in Canada										
	00.7	SV193236-04	R2X	6	90	4	BR	2.4	S	yes	1c, 6
CHECK CHARACTERISTICS											
DKB005-52				121 DTM	46 bu/ac	32 site-years					

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



# HERBICIDE TOLERANT SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	2022 Yield % Check			
			Early Sites‡			Core Site
			Arborg	Beausejour	Stonewall	Carman
Very Early-Season Zone	BY Rundle XT	-13	80	81	77	91
	NSC Dauphin RR2X	-12	64	77	71	91
	P001A48X	-7	109	104	98	100
	P003A97X	-7	105	107	97	100
	BY Morro XT	-7	95	84	93	92
Early-Season Zone	S001-D8X	-6	83	93	74	91
	B0012RX	-5	93	97	90	98
	S003-R5X	-5	92	105	101	101
	Pikas R2X	-5	88	92	79	92
	B0041RX	-4	102	104	96	109
	Young R2X	-4	98	105	95	98
	Akras R2	-3	111	99	84	97
	BY Logan XT	-3	90	92	88	101
	S003-Z4X	-3	93	92	89	99
	SI 001XTN	-3	92	89	91	101
	NSC Arden RR2X	-3	91	93	91	99
	S005-C9X	-2	106	92	102	100
	Mikado R2X	-2	-	-	-	96
	NSC Holland RR2X	-2	94	105	91	98
	PV 28s001R2X	-2	88	98	88	97
	Hart R2X	-2	-	-	-	104
	NSC EXP001LX	-2	101	94	89	100
	PV 22s002 R2X	-2	88	102	94	104
	Experimental lines that are being tested/proposed for registration in Canada					
	CP00121WPX	-3	79	88	91	93
Mid-Season Zone	DKB002-32	-1	-	-	-	107
	BY Rainier XT	-1	-	-	-	100
	Bourke R2X	-1	-	-	-	104
	RX Acron	-1	-	-	-	107
	NSC Sperling RR2Y	-1	-	-	-	99
	Merino R2X	-1	-	-	-	96
	P005A59E	-1	97	99	104	105
	Sunna R2X	-1	95	98	89	95
	SI 00221XTN	-1	88	96	85	102
	S006-K3X	0	105	105	90	98
	P006A37X	0	114	112	102	111
	DKB005-52	0	100	100	100	100
	Mako R2X	0	-	-	-	112
	TH 87003 R2X	0	96	100	86	102
	PV 16s004 R2X	0	95	98	92	105
	DKB006-80	1	-	-	-	111
	SI 00321XT	1	97	101	87	109
	SI 00421XT	1	92	101	89	101
	SI 00620XTN	1	-	-	-	103
	Badger R2X	2	-	-	-	111
	Elmo E3	2	-	-	-	100
	Mao R2X	2	-	-	-	109
	DKB008-48	2	-	-	-	106
	PV 26s007R2X	2	-	-	-	100
	Jaguar R2X	2	-	-	-	106
	P00A49X	2	-	-	-	107
	B0071RX	2	-	-	-	108
	Experimental lines that are being tested/proposed for registration in Canada					
	CP00722WPX	1	-	-	-	109
	CP005WPRX	1	103	91	98	104
Long-Season Zone	TH82005 R2X	3	105	109	94	109
	SI 007XTN	3	96	105	90	105
	S007-A2XS	3	-	-	-	112
	NSC Winkler RR2X	3	-	-	-	105
	TH81007 R2XN	4	-	-	-	106
	TH82008XF	7	-	-	-	103
	Experimental lines that are being tested/proposed for registration in Canada					
	SV193236-04	6	88	94	84	94
CHECK CHARACTERISTICS						
DKB005-52		121 DTM	59	66	60	73
			bu/ac			
			CV %	8.7	6.1	5.6
			LSD %	13	10	9
			Sign. Diff.	yes	yes	yes
Seeding Date			May 26	May 27	Jun 4	May 22
Harvest Date			Oct 11	Oct 7	Oct 8	Oct 5

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

‡ Dashes indicate that varieties were not tested at the early sites.

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

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check†	Long-Term Yield % Check	Site- Years Tested	IDC		Resistance		2022 Yield % Check						
						Rating (1–5)	Group	SCN	PRR	Dauphin	Hamiota	Holland	Melita	Souris	Swan River	
Very Early- Season Zone	000.7	EVO E3	-9	87	6	2.4	S	–	–	91	91	84	86	88	79	
	000.5	BY Rundle XT	-8	92	12	2.1	ST	yes	1c, 3a	102	93	92	91	85	89	
	000.9	S0009-F2X	-8	97	12	2.0	ST	–	1c	96	99	100	95	98	95	
	000.3	DKB0003-24	-7	92	12	1.9	ST	yes	1c, 1k	104	112	100	83	79	94	
	000.5	PV 27s0005R2X	-7	81	6	2.1	ST	yes	1k	99	78	82	87	75	65	
	000.7	S0007-S1X	-7	91	6	2.7	S	–	1c, 3a	95	97	89	93	94	76	
	000.8	NSC Dauphin RR2X	-7	83	12	2.3	S	–	1c	89	72	82	80	74	78	
	000.5	Amirani R2	-6	87	19	1.8	ST	–	1k	98	96	81	87	74	86	
000.3	Wolf R2X	-6	95	6	2.0	ST	yes	3a	108	93	88	96	89	96		
Early- Season Zone	00.1	NSC EXP001LX	-5	94	11	2.0	ST	–	1c, 3a	100	98	96	84	90	81	
	00.1	Polo R2X	-5	100	6	2.1	ST	–	–	100	103	102	100	106	85	
	000.7	Briggs R2X	-4	102	6	1.9	ST	–	–	107	108	93	95	105	104	
	00.1	S001-D8X	-4	100	17	2.0	ST	–	1c	100	104	88	93	90	104	
	00.1	BY Morro XT	-4	99	5	2.6	S	yes	3b	108	102	90	93	99	–	
	00.2	Major R2X	-4	96	6	2.1	ST	–	–	99	98	88	88	102	103	
	00.1	P001A48X	-4	102	19	1.8	ST	–	1c	116	106	95	99	106	116	
	00.1	B0012RX	-4	106	12	1.7	T	–	1k, 6	103	114	111	96	109	111	
	00.1	Pikas R2X	-3	87	6	1.8	ST	yes	1c	94	92	75	88	84	95	
	00.3	S003-R5X	-3	105	6	2.1	ST	–	1c	116	112	110	102	108	103	
	000.8	PV 24s0008R2X	-3	94	6	1.7	T	yes	–	97	95	93	90	97	91	
	00.4	TH89004 R2X	-3	95	19	1.9	ST	–	1c	94	89	90	87	81	94	
	000.5	DKB0005-03	-2	95	6	–	–	–	1c	110	96	91	86	101	78	
	00.2	SI 00221XTN	-2	101	6	1.9	ST	yes	1c	105	106	111	90	96	93	
	000.9	Young R2X	-2	101	12	1.7	T	yes	1c	105	94	102	92	108	106	
	00.3	P003A97X	-2	102	19	1.8	ST	yes	1k	113	111	91	99	103	96	
	00.3	S003-Z4X	-2	103	19	1.8	ST	–	1c	99	106	96	98	108	99	
	000.9	TH830009X	-2	99	6	2.1	ST	–	1c	105	103	93	95	104	88	
	000.9	SI 000919XT	-1	96	17	1.7	T	–	–	104	103	94	85	93	77	
	00.1	PV 28s001R2X	-1	97	6	1.8	ST	yes	1c	106	98	93	95	90	98	
	00.5	P005A83X	-1	106	19	1.7	T	yes	1c	110	107	109	93	98	102	
	000.8	DKB0008-87	-1	101	12	1.9	ST	yes	1c, 1k	106	105	95	85	104	103	
	00.1	SI 001XTN	-1	99	24	1.8	ST	yes	1k	105	98	95	91	104	108	
	000.9	NSC Arden RR2X	0	100	6	2.0	ST	–	1c	109	110	97	96	107	71	
	00.3	Sunna R2X	0	100	22	1.7	T	yes	1c	98	106	98	88	102	103	
	00.5	S005-C9X	0	105	14	2.3	S	–	1c	104	108	103	95	102	–	
	00.4	B0041RX	0	105	10	1.7	T	–	1k	118	107	98	97	107	–	
	00.5	Hart R2X	0	102	11	2.0	ST	–	1c	108	116	97	96	98	–	
	00.3	Akras R2	0	100	43	1.7	T	–	1c	100	100	100	100	100	100	
	000.7	BY Logan XT	0	94	6	2.1	ST	yes	1c	100	99	99	89	94	81	
	00.5	P005A27X	0	103	24	1.8	ST	–	1c	103	118	108	98	101	120	
	00.5	P005A59E	0	104	6	1.8	ST	–	1c	108	111	105	95	102	100	
	00.4	NSC Holland RR2X	0	100	5	2.0	ST	–	1c	112	100	97	92	95	–	
		Experimental lines that are being tested/proposed for registration in Canada														
	–	CP000621WPX	-4	89	6	2.4	S	–	1c	95	93	85	88	93	80	
Mid- Season Zone	00.4	Mikado R2X	1	97	10	2.0	ST	yes	1c	99	98	99	87	96	–	
	00.3	SI 00321XT	1	98	6	2.3	S	–	1c	108	102	99	85	91	94	
	00.2	PV 22s002 R2X	1	102	12	2.0	ST	–	–	106	102	100	91	103	102	
	00.3	TH 87003 R2X	1	97	28	1.8	ST	yes	1c	108	101	101	91	102	–	
	00.3	Merino R2X	2	106	5	1.7	T	yes	1k	105	118	105	92	106	–	
	00.6	S006-K3X	2	104	5	1.7	T	yes	1c	106	99	112	86	108	–	
	00.4	Bourke R2X	3	102	16	1.8	ST	–	1k	100	99	105	86	104	–	
	00.4	PV 16s004 R2X	3	101	20	1.8	ST	yes	1k	101	115	104	85	99	–	
	00.2	DKB002-32	3	105	11	1.8	ST	yes	1k	107	114	98	95	118	101	
	00.5	TH82005 R2X	4	107	10	1.9	ST	–	1k	114	110	101	92	106	–	
	00.4	SI 00421XT	4	99	6	2.4	S	–	1a, 6	109	103	95	86	99	100	
	00.5	Mako R2X	4	108	5	1.8	ST	–	1c	106	119	106	85	120	–	
CHECK CHARACTERISTICS																
	Akras R2	120 DTM	56 bu/ac	43 site-years						76	72	86	50	72	55	
										CV %	6.2	7.8	7.1	5.3	5.7	7.7
										LSD %	10	13	11	8	9	12
										Sign. Diff.	yes	yes	yes	yes	yes	yes
										Seeding Date	June 3	May 27	May 26	May 26	May 26	May 27
										Harvest Date	Oct 19	Oct 9	Oct 11	Sep 21	Oct 14	Oct 5

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

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

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

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

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

Manitoba Maturity Zone	Variety	Average DTM +/- Check†	IDC		2022 Yield % Check		
			Rating	Group	Hamiota	Melita	Souris
Very Early- Season Zone	PV S0007X74	-7	2.1	ST	98	110	101
	PV S0009X84	-3	1.8	ST	92	105	104
Early- Season Zone	PV S004XF13	-2	2.0	ST	100	110	104
	PV S0006X24	-2	1.9	ST	93	97	99
	Akras R2	0	2	ST	100	100	100
	PR150363Z-20	0	2.4	S	105	95	93
	Experimental lines that are being tested/proposed for registration in Canada						
	PR160217Z-06	-3	2.0	ST	82	88	88
	PR170663Z-15	-2	2.1	ST	95	92	97
	PR160901Z-16	0	2.1	ST	107	92	94
	Mid- Season Zone	TH83004X	2	1.9	ST	104	106
Experimental lines that are being tested/proposed for registration in Canada							
EXP001-22		2	1.9	ST	82	97	103
PR160671Z-20		3	2.5	S	92	93	103
CHECK CHARACTERISTICS							
	Akras R2	119			65	47	70
		DTM				bu/ac	
				CV %	6.2	3.8	4.5
				LSD %	10	6	8
				Sign. Diff	yes	yes	yes
				Seeding Date	May 27	May 26	May 26
				Harvest Date	Oct 7	Sep 21	Oct 7

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

# CONVENTIONAL SOYBEANS ♦ VARIETY DESCRIPTIONS

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



# CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA

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

<sup>†</sup> Maturity ratings were averaged across the Carman, Morris and St. Adolphe core sites over multiple years. <sup>‡</sup> Dashes indicate that varieties were not tested at the early sites.

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

## CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION ♦ WESTERN MANITOBA

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

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

\* (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.

### 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	Average DTM +/- Check <sup>†</sup>	Long-Term 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 (%)
<b>NAVY</b>	<b>+/- T9905</b>	<b>% T9905</b>								
Valiant	-6	102	5	190	2	52	94	2	10	0
Indi	-3	99	33	174	2	57	96	3	16	0
AAC Shock	-2	95	13	214	2	51	92	2	20	0
Armada	-2	101	9	209	2	57	93	2	17	0
Bolt	-2	93	19	204	1	53	90	2	19	0
Blizzard	-2	99	4	188	3	57	88	2	18	0
Rogue	-2	93	1	172	4	46	82	2	5	0
Nautica	0	89	18	163	2	52	93	2	20	0
T9905	0	100	41	199	2	55	93	2	14	0
AAC Argosy	1	102	17	196	3	54	88	2	16	0
HMS Medalist	1	99	6	192	2	57	88	3	17	0
SV1893GH*	1	96	17	206	2	57	91	2	13	0
<b>Varieties that are registered in the US or being tested or proposed for registration in Canada</b>										
HMS Victory	-1	104	7	197	2	51	92	2	16	0
15095	3	101	6	204	3	58	88	3	25	0
<b>CHECK CHARACTERISTICS</b>										
T9905	102	2425	45							
	DTM	lbs/ac	site-years							

continued ►

Market Class/Variety	Average DTM +/- Check†	Long-Term 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 (%)
<b>BLACK</b>	+/- Eclipse	% Eclipse								
CDC Blackstrap*	-6	95	22	222	2	46	90	2	18	0
CDC Superjet	-2	89	36	202	2	51	93	2	18	0
Ace	-1	99	7	179	2	52	96	3	17	0
CDC Jet	-1	89	48	202	2	53	95	2	16	0
Eclipse**	0	100	50	190	2	55	95	3	21	0
Black Tails	1	103	11	199	3	54	90	3	22	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
B303350	-1	109	4	206	2	59	93	2	18	0
B3036381	1	103	4	194	2	58	92	2	17	0
<b>CHECK CHARACTERISTICS</b>										
Eclipse	98 DTM	2476 lbs/ac	50 site-years							
<b>PINTO</b>	+/- Vibrant	% Vibrant								
Cowboy*	-1	96	11	369	3	57	86	3	17	0
Windbreaker	0	93	22	409	4	47	77	3	15	0
SV6139GR*	0	97	21	359	3	49	86	3	14	0
Vibrant	0	100	22	333	3	58	83	2	19	0
Gleam	2	94	5	340	3	53	83	2	17	0
Mystic	5	103	5	399	3	57	85	3	7	0
ND Palomino*	7	94	11	389	4	55	81	2	17	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
Rustler	-3	85	4	105	3	50	80	2	20	0
Bronco	-1	82	4	329	4	57	79	2	20	0
Charro	5	104	4	381	3	63	85	2	18	0
USDA Rattler	5	102	4	396	3	58	89	2	12	0
USDA Diamondback	5	85	4	390	3	52	86	2	15	0
<b>MAYOCOBA (YELLOW)</b>	+/- Vibrant	% Vibrant								
CDC Sunburst	-1	64	5	435	2	43	89	2	17	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
Claim Jumper	8	87	5	389	3	46	87	2	17	0
<b>CHECK CHARACTERISTICS</b>										
Vibrant	96 DTM	2881 lbs/ac	22 site-years							
<b>GREAT NORTHERN</b>	+/- Pink Panther	% Pink Panther								
Andromeda	-4	130	7	363	4	42	74	3	19	0
Aries	0	136	17	344	4	54	81	3	24	0
Virgo	4	145	7	363	3	55	89	2	16	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
Lyra	-3	129	3	410	3	50	80	3	20	0
Eiger	2	169	3	332	3	57	85	3	18	0
<b>DARK RED KIDNEY</b>	+/- Pink Panther	% Pink Panther								
Cabernet	1	73	17	499	2	57	89	3	30	0
Rampart	5	114	3	477	2	57	89	3	22	0
Dynasty	7	108	10	522	3	59	89	3	17	0
Gallantry	10	131	4	507	2	54	92	2	15	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
161156	-3	71	3	476	2	55	88	4	33	0
Red Rover	4	56	6	483	2	55	87	3	30	0
181021	8	82	3	529	2	59	88	2	10	0
<b>LIGHT RED KIDNEY</b>	+/- Pink Panther	% Pink Panther								
Red Dawn	-7	97	11	558	2	49	86	3	21	0
Clouseau	-2	97	17	610	2	52	88	3	27	0
Big Red	-1	98	27	540	2	49	87	3	28	0
Pink Panther	0	100	60	560	2	50	89	3	25	0
<b>WHITE KIDNEY</b>	+/- Pink Panther	% Pink Panther								
Yeti	9	101	4	459	2	55	92	2	17	0
<b>CHECK CHARACTERISTICS</b>										
Pink Panther	99 DTM	1969 lbs/ac	60 site-years							
<b>CRANBERRY</b>	+/- Etna	% Etna								
OAC Navabi	-3	134	3	552	2	52	90	4	33	0
Krimson	-1	105	25	550	4	46	81	3	24	0
Etna	0	100	62	505	2	48	88	4	30	0
OAC Firestripe	4	165	3	638	2	56	90	2	30	0
OAC Candycane	5	129	4	460	1	50	92	2	11	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
Amaranto	-3	107	6	514	2	48	88	4	30	0
<b>CHECK CHARACTERISTICS</b>										
Etna	100 DTM	1748 lbs/ac	62 site-years							

This long-term data is based on results from wide-row trials. † The 2021 Morden wide-row trial was not included in the long-term average days to maturity. \* 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.

# DRY BEANS ♦ YIELDS BY LOCATION ♦ WIDE ROW

Market Class/ Variety	Average DTM +/- Check	2022 Yield % Check			
		Carman	Morden	Portage	Winkler
<b>NAVY</b>	+/- T9905			% T9905	
Valiant	-6	95	102	105	106
Indi	-3	78	107	82	92
AAC Shock	-2	89	98	91	95
Armada	-2	94	105	95	104
Blizzard	-2	85	109	108	97
T9905	0	100	100	100	100
AAC Argosy	1	96	94	96	96
SV1893GH	1	98	92	103	98
Varieties that are registered in the US or being tested or proposed for registration in Canada					
HMS Victory	-1	96	113	104	91
<b>CHECK CHARACTERISTICS</b>					
T9905	102	3142	3394	2337	3615
	DTM			lbs/ac	
	CV %	10.8	7.5	11.0	8.5
	LSD %	16	13	17	14
	Sign. Diff.	yes	yes	yes	yes
	Seeding Date	May 31	Jun 6	Jun 7	Jun 7
	Harvest Date	Sep 28	Oct 17	Oct 3	Oct 17
<b>BLACK</b>	+/- Eclipse			% Eclipse	
CDC Blackstrap*	-6	92	81	122	108
CDC Superjet	-2	99	82	119	93
CDC Jet	-1	91	81	113	98
Eclipse**	0	100	100	100	100
Black Tails	1	129	97	115	98
Varieties that are registered in the US or being tested or proposed for registration in Canada					
B3033350	-1	111	104	114	111
B3036381	1	115	102	103	95
<b>CHECK CHARACTERISTICS</b>					
Eclipse	98	2628	3652	1910	3529
	DTM			lbs/ac	
	CV %	10.8	7.5	11.0	8.5
	LSD %	20	12	21	14
	Sign. Diff.	yes	yes	yes	yes
	Seeding Date	May 31	Jun 6	Jun 7	Jun 7
	Harvest Date	Sep 28	Oct 17	Oct 3	Oct 17
<b>PINTO</b>	+/- of Vibrant			% of Vibrant	
Cowboy*	-1	94	109	81	106
Windbreaker	0	99	83	95	97
SV6139GR*	0	110	93	80	88
Vibrant	0	100	100	100	100
Gleam	2	91	106	94	75
Mystic	5	113	106	84	108
ND Palomino*	7	122	90	82	104
Varieties that are registered in the US or being tested or proposed for registration in Canada					
Rustler	-3	95	87	64	92
Bronco	-1	94	77	73	85
Charro	5	107	100	115	98
USDA Diamondback	5	96	84	69	88
USDA Rattler	5	110	92	102	108
<b>MAYOCOBA (YELLOW)</b>	+/- Vibrant			% Vibrant	
CDC Sunburst	-1	62	46	-	76
Varieties that are registered in the US or being tested or proposed for registration in Canada					
Claim Jumper	8	110	58	67	95
<b>CHECK CHARACTERISTICS</b>					
Vibrant	96	2575	3267	2478	2922
	DTM			lbs/ac	
	CV %	9	11	11	13
	LSD %	16	17	15	20
	Sign. Diff.	yes	yes	yes	yes
	Seeding Date	May 31	Jun 6	Jun 7	Jun 7
	Harvest Date	Sep 28	Oct 17	Oct 3	Oct 17
<b>GREAT NORTHERN</b>	+/- Pink Panther			% Pink Panther	
Andromeda	-4	140	124	158	-
Aries	0	127	141	158	-
Virgo	4	128	155	183	-
Varieties that are registered in the US or being tested or proposed for registration in Canada					
Lyra	-3	115	132	146	-
Eiger	2	162	172	176	-
<b>DARK RED KIDNEY</b>	+/- Pink Panther			% Pink Panther	
Cabernet	1	124	74	105	-

continued ➤

Market Class/ Variety	Average DTM +/- Check	2022 Yield % Check			
		Carman	Morden	Portage	Winkler
Rampart	5	127	99	120	–
Dynasty	7	142	101	146	–
Gallantry	10	141	99	171	–
Varieties that are registered in the US or being tested or proposed for registration in Canada					
161156	-3	64	61	95	–
Red Rover	4	63	83	79	–
181021	8	109	49	96	–
<b>LIGHT RED KIDNEY</b>	+/- Pink Panther			% Pink Panther	
Red Dawn	-7	84	92	99	–
Clouseau	-2	99	95	83	–
Big Red	-1	89	96	86	–
Pink Panther	0	100	100	100	–
<b>WHITE KIDNEY</b>	+/- Pink Panther			% Pink Panther	
Yeti	9	122	80	95	–
<b>CHECK CHARACTERISTICS</b>					
Pink Panther	99	1985	2227	1458	–
	DTM			lbs/ac	
	CV %	14.9	12.2	12.0	–
	LSD %	28	21	25	–
	Sign. Diff.	yes	yes	yes	–
	Seeding Date	May 31	Jun 6	Jun 7	–
	Harvest Date	Sep 28	Oct 17	Oct 3	–
<b>CRANBERRY</b>	+/- Etna			% Etna	
OAC Navabi	-3	141	148	113	–
Krimson	-1	173	124	82	–
Etna	0	100	100	100	–
OAC Firestripe	4	178	160	160	–
Varieties that are registered in the US or being tested or proposed for registration in Canada					
Amaranto	-3	160	93	99	–
<b>CHECK CHARACTERISTICS</b>					
Etna	100	1380	1844	1720	–
	DTM			lbs/ac	
	CV %	14.9	12.2	12.0	–
	LSD %	40	25	21	–
	Sign. Diff.	yes	yes	yes	–
	Seeding Date	May 31	Jun 6	Jun 7	–
	Harvest Date	Sep 28	Oct 17	Oct 3	–

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


## DRY BEANS ♦ YIELDS BY LOCATION ♦ NARROW ROW


Market Class/ Variety	Average DTM +/- Check	Long-Term Yield % Check	Site-Years Tested	2022 Yield % Check		
				Melita	Portage	Souris
<b>NAVY</b>	+/- CDC Blackstrap	% CDC Blackstrap			% CDC Blackstrap	
OAC Fusion	4	94	6	90	94	104
Indi	7	88	13	71	92	71
AAC Shock	8	86	16	78	117	83
SV1893GH*	8	92	8	74	163	98
AAC Argosy	9	90	11	80	134	93
T9905	9	87	18	69	132	92
<b>BLACK</b>	+/- CDC Blackstrap	% CDC Blackstrap			% CDC Blackstrap	
CDC Blackstrap*	0	100	29	100	100	100
CDC Superjet	5	96	29	87	175	100
Eclipse**	5	100	17	83	124	103
CDC Jet	6	88	29	84	120	85
Varieties that are registered in the US or being tested or proposed for registration in Canada						
B3033350	7	104	3	79	159	105
B3036381	10	96	3	74	126	106
<b>CHECK CHARACTERISTICS</b>						
CDC Blackstrap	95	2680	29	3129	1323	2963
	DTM	lbs/ac	site-years		lbs/ac	
			CV %	7.8	12.6	7.2
			LSD %	10	28	12
			Sign. Diff.	yes	yes	yes
			Seeding Date	May 17	May 25	May 26
			Harvest Date	Sep 13	Oct 3	Oct 6

continued ►



Market Class/ Variety	Average DTM +/- Check	Long-Term Yield % Check	Site-Years Tested	2022 Yield % Check		
				Melita	Portage	Souris
<b>PINTO</b>	+/- Windbreaker	% Windbreaker			% Windbreaker	
SV6139GR*	-1	109	11	99	92	88
Windbreaker	0	100	21	100	100	100
Vibrant	1	109	3	111	114	105
ND Palomino	4	94	9	95	103	82
<b>Varieties that are registered in the US or being tested or proposed for registration in Canada</b>						
Bronco	2	86	3	91	80	85
USDA Rattler	4	107	3	93	133	104
Charro	4	109	3	98	156	94
USDA Diamondback	4	99	3	86	119	98
<b>CHECK CHARACTERISTICS</b>						
Windbreaker	100	2473	21	2621	1763	3207
	DTM	lbs/ac	site-years		lbs/ac	
			CV %	7.8	12.6	7.2
			LSD %	12	21	11
			Sign. Diff.	yes	yes	yes
			Seeding Date	May 17	May 25	May 26
			Harvest Date	Sep 13	Oct 3	Oct 6

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### Key for Faba Bean Variety Table


**Tannin vs. Zero-Tannin Varieties** – Tannin varieties with coloured flowers and tan-coloured seed coats are desired for human consumption. Zero-tannin varieties with white flowers and seed coats may be used for both human and animal consumption.

**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	Average DTM†	Long-Term Yield % Check	Site-Years Tested	TSW (g/1000 seeds)	2022 Yield % Check		
					Dauphin	Morden	Swan River
COLOURED FLOWER (TANNIN)							
Allison*	105	106	3	499	90	87	85
Fabelle*	111	100	5	533	100	100	100
Victus*	129	87	5	401	89	86	78
CHECK CHARACTERISTICS							
Fabelle*	111	4623	5		7734	4651	4283
	DTM	lbs/ac	site-years			lbs/ac	
				CV %	4.4	7.7	8.9
				LSD %	7	11	13
				Sign. Diff.	yes	yes	yes
WHITE FLOWER (ZERO TANNIN)							
DL Nevado*	101	99	4	421	104	98	107
Snowbird**	104	100	5	448	100	100	100
Tabasco*	106	98	2	530	–	–	–
DL Rico*	109	86	2	566	–	–	–
DL Tesoro*	110	112	5	511	114	108	101
219-16*	115	94	5	350	93	84	96
Navi*	129	106	5	401	103	107	114
CHECK CHARACTERISTICS							
Snowbird**	104	3750	5		6419	3686	3201
	DTM	lbs/ac	site-years			lbs/ac	
				CV %	4.4	7.7	8.9
				LSD %	8	14	17
				Sign. Diff.	yes	yes	yes
				Seeding Date	May 23	May 28	May 25
				Harvest Date	Oct 1	Sep 28	Sep 26

† Maturity ratings are based on days until swathing, but will vary depending on seeding date.

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legislation that complies with UPOV 1991

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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†	Long-Term 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	Mycosphaerella Blight	Fusarium Wilt
YELLOW													
AAC Carver*	Early	103	51	L	240	G	G	G	n/a	G	VG	F	F
Boost*	Early	104	6	M	230	G	VG	G	n/a	G	VG	F	G
CDC Canary*	Early	98	41	L	230	F	G	F	n/a	VG	VG	F	F
ProStar*	Early	103	6	M	240	G	VG	G	n/a	G	VG	F	G
AAC Ardill	Mid	100	36	M	240	G	G	G	n/a	G	VG	F	G
AAC Asher*	Mid	103	13	S	260	G	F	F	n/a	G	VG	F	F
AAC Beyond*	Mid	98	21	M	210	–	F	–	n/a	G	VG	F	G
AAC Delhi*	Mid	103	35	M	290	G	F	F	n/a	G	VG	F	F
AAC Julius*	Mid	103	22	M	210	–	G	–	n/a	G	VG	F	G
AAC Profit**	Mid	102	34	M	230	G	F	G	n/a	G	VG	F	F
CDC Citrine*	Mid	108	6	L	230	G	G	G	n/a	G	VG	F	G
CDC Hickie*	Mid	103	6	M	230	G	G	G	n/a	VG	VG	F	G
CDC Inca*	Mid	104	55	L	230	F	G	G	n/a	G	VG	F	F
CDC Saffron	Mid	97	36	M	250	G	G	F	n/a	G	VG	F	F
AAC Aberdeen*	Long	105	29	M	250	G	F	F	n/a	VG	VG	F	F
AAC Chrome*	Long	108	47	M	240	G	G	G	n/a	G	VG	F	F
AAC Lacombe**	Long	101	43	L	270	F	F	G	n/a	G	VG	F	F
AAC Planet*	Long	104	6	L	231	G	F	G	n/a	G	VG	F	G
CDC Amarillo	Long	100	57	M	230	G	F	F	n/a	VG	VG	F	G
CDC Athabasca*	Long	97	41	L	300	G	F	F	n/a	VG	VG	F	G
CDC Lewochko*	Long	103	41	L	230	G	G	G	n/a	VG	VG	F	F
CDC Spectrum*	Long	97	41	L	240	G	G	G	n/a	VG	VG	F	F
CDC Tollefson*	Long	105	6	L	240	G	G	G	n/a	VG	VG	F	G
Experimental lines that are being tested/proposed for registration in Canada													
DL1814	Long	99	6	M	260	G	G	G	n/a	G	VG	F	G
GREEN													
CDC Striker	Early	89	35	M	230	n/a	VG	G	G	VG	P	F	G
CDC Greenwater	Mid	98	35	M	220	n/a	VG	G	G	G	VG	F	G
AAC Comfort*	Long	98	25	M	260	n/a	G	G	G	G	VG	F	F
Bluman**	Long	99	16	M	230	n/a	VG	G	F	G	VG	F	F
CDC Forest*	Long	102	41	L	230	n/a	G	G	G	G	VG	F	F
CDC Limerick	Long	97	44	M	210	n/a	VG	G	G	VG	VG	F	F
CDC Rider*	Long	96	22	M	220	n/a	G	G	G	VG	VG	F	G
CDC Spruce*	Long	99	20	L	240	n/a	F	F	G	G	VG	F	F
MAPLE													
AAC Liscard	Early	94	25	M	180	n/a	–	n/a	n/a	G	VG	F	–
AAC Lorlie	Long	90	6	M	226	n/a	G	n/a	n/a	G	VG	F	–
FORAGE													
CDC Jasper*	Mid	86	29	L	180	G	G	G	n/a	F	VG	F	–
DL Lacross	Mid	91	35	VL	190	F	VG	G	n/a	F	–	F	–
DL Delicious*	Long	79	28	VL	220	–	VG	F	n/a	P	–	F	–
CHECK CHARACTERISTICS													
CDC Amarillo	92 DTM	78 bu/ac	57 site-years										
LSD% 5													

† Maturity ratings were averaged across Hamiota, Melita, Morden and Swan River.

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\*\* 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	2022 Yield % Check					
	Hamiota	Melita	Morden	Portage	Souris	Swan River
<b>YELLOW</b>						
AAC Carver*	98	100	70	99	110	95
Boost*	85	108	91	93	109	108
CDC Canary*	85	89	83	87	95	89
ProStar*	77	111	92	101	117	93
AAC Beyond*	80	93	93	94	107	102
AAC Delhi*	82	108	82	89	121	100
AAC Julius*	93	109	91	99	109	104
AAC Profit**	109	98	90	91	122	105
CDC Citrine*	116	110	90	103	119	98
CDC Hickie*	114	103	86	95	92	102
CDC Inca*	109	107	99	100	101	105
AAC Aberdeen*	94	108	96	97	90	105
AAC Chrome*	82	116	91	94	132	101
AAC Planet*	111	106	90	100	98	104
CDC Amarillo	100	100	100	100	100	100
CDC Athabasca*	104	101	88	91	104	93
CDC Lewochko*	108	106	91	89	99	94
CDC Spectrum*	92	110	87	85	89	104
CDC Tollefson*	108	108	89	96	108	98
<b>Experimental lines that are being tested/proposed for registration in Canada</b>						
DL1814	89	103	73	89	111	93
<b>GREEN</b>						
CDC Forest*	105	107	82	87	105	94
CDC Rider*	102	100	82	94	100	87
<b>MAPLE</b>						
AAC Lorie	80	97	91	63	85	81
<b>FORAGE</b>						
CDC Jasper*	68	82	73	70	45	83
DL Lacross	93	93	71	76	77	79
DL Delicious*	82	80	69	61	48	69
<b>CHECK CHARACTERISTICS</b>						
CDC Amarillo	69	67	73	100	93	92
	bu/ac					
CV %	10.4	5.7	11.5	9.5	6.6	7.6
LSD %	16	10	16	14	11	12
Sign. Diff.	yes	yes	yes	yes	yes	yes
Seeding Date	May 16	May 16	May 28	Jun 7	May 24	May 25
Harvest Date	Sep 7	Aug 10	Sep 7	Sep 7	Sep 7	Aug 31

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