

2024 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, faba bean and lupin 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, dry bean, faba bean and lupin trials were sponsored and co-ordinated by MPSG and Manitoba Agriculture. Field pea 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 13 locations in 2024, 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, Morris and St. Adolphe. In western Manitoba, varieties were tested at Dauphin, Hamiota, Holland, Melita, Souris and Swan River.

Conventional (non-GM) soybean varieties were tested at all sites listed for eastern Manitoba and at Melita,

Swan River and, new in 2024, Souris 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.

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, Stonewall, 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 at Dauphin, Morden and Swan River.

LUPINS

Lupin trials were conducted at Carberry, Melita and Roblin. Market classes included narrow-leaved blue, broad-

leaved sweet white, narrow-leaf yellow lupins compared to yellow peas.

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, MCDC 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

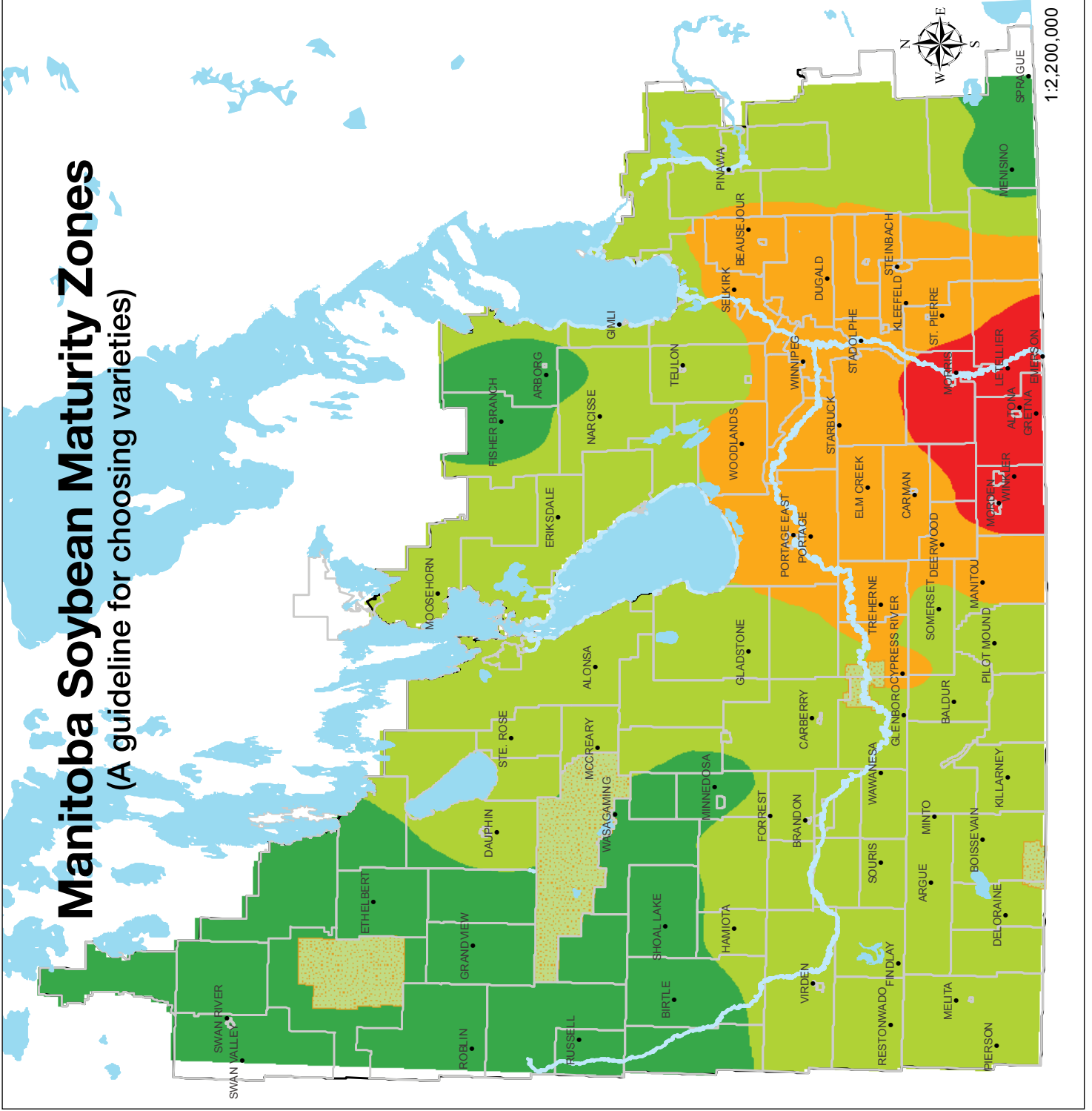
-  Very Early
-  Early
-  Mid
-  Long

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 *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® soybeans with glyphosate and dicamba herbicide tolerance.

R2XF = Roundup Ready 2 XtendFlex® soybeans with glyphosate, dicamba and glufosinate 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), buff (BF), 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 (1 = green leaves, 2 = yellowish leaves, 3 = green veins with yellow leaves, 4 = brown dead tissue between green veins, 5 = severe chlorosis and stunted growing point). 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 Groups

T = tolerant (≤1.7) ST = semi-tolerant (1.8–2.2) S = susceptible (≥2.3)

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

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) pathotype-specific major resistance (Rps) genes for each variety. Soil survey results from 2023 found *Phytophthora sojae* present in soils at 81% of soybean fields in Manitoba. Prevalent *P. sojae* pathotypes found commonly defeated Rps 1c and 1k while Rps 3a and 6 were defeated less frequently and offered the most protection against pathotypes common in Manitoba soils. (Source: Yong Min Kim, AAFC–Brandon)



1.7 (T)



2.3 (S)

IDC Rating and Group

IDC ratings are independently assessed each year at an IDC-prone site near Winnipeg. Pictured are soybeans from the IDC trial on July 17, 2024, during the last IDC rating assessment for the season. Soybean varieties range from tolerant (L), rating 1.7 or less to susceptible (R), rating 2.3 or greater.

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	000.9	PV S0009X84	R2X	-6	94	12	BL	1.8	ST	yes	-	
	00.3	S003-R5X	R2X	-5	89	7	IY	2.1	ST	-	1c	
	00.2	B0024EE	E3	-5	93	7	BF	1.9	ST	-	1k,6	
	00.1	BY Hector XT	R2X	-4	84	12	BL	1.9	ST	-	1c	
Early-Season Zone	00.2	P002A42E	E3	-3	89	12	BF	1.9	ST	-	1c	
	00.2	BY Meru E3*	E3	-3	97	7	Y	2.1	ST	-	1c	
	00.4	NS EXP004ME3	E3	-3	102	7	Y	1.9	ST	-	1k	
	00.2	TH84002X	R2X	-2	90	12	BL	1.8	ST	yes	1c	
	00.5	Hart R2X	R2X	-2	94	19	BR	1.9	ST	-	1c	
	00.1	Alouette R2X	R2X	-2	90	7	BL	1.8	ST	-	1c	
	000.9	Young R2X	R2X	-2	92	22	BL	1.7	T	yes	1c	
	Experimental lines that are being tested/proposed for registration in Canada											
	00.1	CP00123WPX	WPX	-2	94	12	BR	2.1	ST	yes	1c	
	00.4	B0044EE	E3	-1	99	7	BF	2.0	ST	yes	1c	
00.3	BY Deno XT	R2X	-1	89	12	BL	2.0	ST	yes	1c		
00.4	NSC Holland RR2X	R2X	-1	94	22	BR	1.9	ST	-	1c		
00.3	P003Z08E	E3	-1	97	7	Y	2.2	ST	-	1c		
00.2	DKB002-32	R2X	-1	95	25	BR	1.8	ST	yes	1k		
00.6	P006A37X	R2X	0	100	39	BR	1.8	ST	-	1c		
00.2	NSC Arden RR2X	R2X	0	91	16	BL	1.8	ST	-	1c		
00.5	NSC EXP004CX	R2X	0	102	7	BR	1.8	ST	-	1c		
00.6	NSC Homewood RR2X	R2X	0	103	7	BL	1.7	T	-	1c		
00.3	Oslo XF	R2XF	0	101	7	IY	1.9	ST	-	-		
00.3	TH85003XF	R2XF	0	97	7	BR	2.0	ST	yes	1c,3a		
00.4	Bourke R2X	R2X	0	94	36	BL	1.8	ST	-	1k		
00.4	Merino R2X	R2X	1	90	13	BL	1.7	T	yes	1k		
Mid-Season Zone	00.6	BY Robson XT	R2X	1	102	6	BL	2.1	ST	-	1c	
	00.4	P004Z87E	E3	1	97	7	Y	2.1	ST	-	1c	
	00.2	PV 22s002 R2X	R2X	1	90	22	BL	2.0	ST	yes	1k	
	00.4	PV 16s004 R2X	R2X	1	92	33	BL	1.8	ST	yes	1k	
	00.3	SI 00323XT	R2X	1	99	12	BL	2.0	ST	-	1c	
	00.7	B0074EE	E3	2	100	7	BR	1.9	ST	-	1c	
	00.6	Badger R2X	R2X	2	97	10	BL	1.7	T	-	1k	
	00.5	TH84005XF	R2XF	2	86	7	BL	2.0	ST	yes	1c	
	00.6	SI 00623XT	R2X	2	102	12	BL	2.0	ST	-	1c	
	00.6	Mao R2X	R2X	2	100	11	BL	1.7	T	yes	1c	
	Experimental lines that are being tested/proposed for registration in Canada											
	00.6	EXP006-24E3	E3	-1	96	7	B	1.7	T	yes	1k,3a	
	00.6	EXP006-24XF	R2XF	0	96	7	BR	1.8	ST	yes	1c,3a	
	00.2	PR23X2350	R2X	1	105	7	IY	2.0	ST	-	-	
00.5	CP00523WPX	WPX	2	98	9	BL	2.1	ST	-	1k,1c		
00.2	PR150019Z-14	R2X	2	90	4	BL	2.0	ST	-	1c		
Long-Season Zone	00.8	P008Z25E	E3	3	104	4	Y	1.9	ST	-	1c	
	00.9	P009Z94E	E3	3	107	4	BF	1.9	ST	yes	1k,6	
	00.5	TH82005 R2X	R2X	3	99	22	BR	1.9	ST	-	1k	
	00.7	S007-A2XS	R2X	3	99	22	GR	1.8	ST	-	-	
	00.6	DKB006-80	R2X	4	103	10	BL	1.7	T	yes	1c	
	00.7	P007A68E	E3	4	98	12	BF	1.9	ST	-	1c	
	00.4	DKB004-04	R2X	4	94	7	BL	1.7	T	yes	1c	
	00.9	Rico R2X	R2X	4	102	6	B	2.3	S	yes	1c	
	00.7	DKB007-91XF	R2XF	5	92	4	BL	1.9	ST	-	1c	
	00.9	DKB009-96	R2X	5	93	4	BL	1.9	ST	yes	1c	
	00.9	Triquet R2X	R2X	5	100	6	BL	1.7	T	yes	1k	
	00.7	TH81007 R2XN	R2X	5	100	11	BR	1.7	T	yes	1c	
	00.7	PV S007XF55	R2XF	6	102	4	BL	1.8	ST	yes	-	
	00.7	SI 00723XFN	R2XF	6	98	12	BL	1.7	T	yes	1c	
	00.7	TH74007E	E3	7	106	4	BF	1.9	ST	yes	3a	
	Experimental lines that are being tested/proposed for registration in Canada											
	00.7	EXP N007E3	E3	3	108	4	BR	2.1	ST	-	1k,3a	
	00.9	PR24XF2450	R2XF	3	105	4	BR	1.8	ST	-	-	
00.7	C4M24517 XT	R2X	5	103	4	BL	1.9	ST	yes	-		

CHECK CHARACTERISTICS

00.6	P006A37X	118	52	39
		DTM	bu/ac	site-years

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

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

HERBICIDE TOLERANT SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA

2024 Yield % Check

Manitoba Maturity Zone	Variety	Average DTM +/- Check [†]	Early Sites [†]			Core Sites				
			Arborg	Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	
Very Early-Season Zone	PV S0009X84	-6	96	104	96	100	92	91	97	
	S003-R5X	-5	112	97	104	85	103	98	99	
	B0024EE	-5	92	89	98	95	92	93	90	
	BY Hector XT	-4	86	79	89	77	84	87	89	
Early-Season Zone	P002A42E	-3	96	87	92	100	90	105	89	
	BY Meru E3*	-3	88	98	96	100	107	101	97	
	NS EXP004ME3	-3	96	92	106	116	100	103	103	
	TH84002X	-2	88	86	94	99	93	82	92	
	Hart R2X	-2	97	99	107	99	93	107	105	
	Alouette R2X	-2	94	89	93	85	87	97	89	
	Young R2X	-2	89	104	102	95	101	102	94	
	Experimental lines that are being tested/proposed for registration in Canada									
	CP00123WXPX	-2	90	90	103	101	89	104	104	
	B0044EE	-1	109	89	101	91	97	103	101	
BY Deno XT	-1	93	85	94	84	91	89	81		
NSC Holland RR2X	-1	106	100	95	93	99	99	92		
P003Z08E	-1	97	94	99	107	99	102	88		
DKB002-32	-1	110	97	102	102	98	102	104		
P006A37X	0	100	100	100	100	100	100	100		
NSC Arden RR2X	0	94	93	100	94	91	100	98		
NSC EXP004CX	0	105	99	103	99	104	98	104		
NSC Homewood RR2X	0	104	99	109	109	93	103	99		
Oslo XF	0	95	104	98	110	104	107	95		
TH85003XF	0	98	90	98	100	104	104	92		
Bourke R2X	0	96	95	98	89	107	87	101		
Merino R2X	1	102	93	91	81	96	93	90		
BY Robson XT	1	-	-	-	96	102	102	103		
P004Z87E	1	98	101	97	103	85	97	89		
PV 22s002 R2X	1	90	83	90	83	93	91	96		
PV 16s004 R2X	1	-	-	-	86	98	97	96		
SI 00323XT	1	102	93	103	94	95	103	91		
B0074EE	2	94	104	96	102	108	99	100		
Badger R2X	2	-	-	-	97	96	101	101		
TH84005XF	2	80	84	90	80	88	88	96		
SI 00623XT	2	106	105	105	98	109	110	101		
Mao R2X	2	-	-	-	102	105	104	102		
Experimental lines that are being tested/proposed for registration in Canada										
EXP006-24E3	-1	98	93	98	102	95	97	87		
EXP006-24XF	0	94	93	100	99	92	108	90		
PR23X2350	1	110	100	106	107	101	113	98		
CP00523WXPX	2	105	97	98	88	97	98	101		
PR150019Z-14	2	-	-	-	88	93	85	91		
Long-Season Zone	P008Z25E	3	-	-	-	99	105	109	106	
	P009Z94E	3	-	-	-	112	106	110	100	
	TH82005 R2X	3	100	93	96	100	97	114	108	
	S007-A2XS	3	91	103	105	100	95	97	105	
	DKB006-80	4	109	105	105	95	105	105	106	
	P007A68E	4	95	93	98	94	101	108	84	
	DKB004-04	4	90	92	104	85	95	94	100	
	Rico R2X	4	-	-	-	109	105	110	104	
	DKB007-91XF	5	-	-	-	91	99	97	88	
	DKB009-96	5	-	-	-	76	111	97	97	
	Triquet R2X	5	-	-	-	97	103	103	106	
	TH81007 R2XN	5	-	-	-	106	98	98	102	
	PV S007XF55	6	-	-	-	104	99	103	103	
	SI 00723XFN	6	101	91	103	95	98	94	104	
	TH74007E	7	-	-	-	106	103	112	105	
	Experimental lines that are being tested/proposed for registration in Canada									
EXP N007E3	3	-	-	-	110	106	106	107		
PR24XF2450	3	-	-	-	105	108	108	101		
C4M24517 XT	5	-	-	-	102	94	99	111		
CHECK CHARACTERISTICS										
	P006A37X	118	78	63	56	57	39	36	61	
	DTM					bu/ac				
	CV %		6.2	7.0	4.3	6.7	6.8	6.1	4.3	
	LSD %		10	11	7	10	11	10	7	
	Sign. Diff.		yes	yes	yes	yes	yes	yes	yes	
	Seeding Date		May 23	May 30	May 10	May 23	May 23	May 31	May 23	
	Harvest Date		Oct 2	Oct 3	Oct 3	Oct 9	Sep 27	Oct 8	Sep 27	

[†] 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.

* 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	Average DTM +/- Check†	Long-Term Yield % Check	Site-Years Tested	IDC		Resistance		2024 Yield % Check						
						Rating (1-5)	Group	SCN	PRR	Dauphin	Hamiota	Holland	Melita	Souris	Swan River‡	
Very Early-Season Zone	000.7	S0007-S1X	-5	85	16	2.4	S	-	1c,3a	91	88	73	83	83	83	
	000.5	BY Nebo XT	-4	93	6	2.0	ST	-	1c	92	99	96	91	90	92	
	Experimental lines that are being tested/proposed for registration in Canada															
	000.7	PR181000-04	-3	87	5	2.0	ST	-	-	93	88	88	90	80	-	
	000.7	PR180907-05	-3	94	5	2.0	ST	-	1c	94	98	102	92	88	-	
Early-Season Zone	000.7	Wolf R2X*	-2	88	16	1.9	ST	yes	3a	91	89	83	81	80	85	
	000.7	PV S0007X74	-2	100	10	2.0	ST	-	1c,3a	103	100	102	89	98	93	
	000.9	BY Arvon XT	-2	90	6	2.2	ST	-	1c,1k	83	93	99	91	89	90	
	000.8	NSC EXP0008CX	-2	99	10	1.7	T	-	1c	96	101	94	97	94	96	
	000.9	S0009-J5X	-2	96	10	2.0	ST	-	1c,3a	106	94	93	92	99	85	
	00.2	Major R2X	-1	91	16	2.0	ST	-	1c	96	89	81	89	89	90	
	00.1	S001-D8X	-1	91	22	2.0	ST	-	1c	90	89	95	96	87	84	
	00.2	BY Meru E3	-1	96	6	2.1	ST	-	1c	101	93	106	98	90	93	
	00.2	B0024EE	-1	97	6	1.9	ST	-	1k,6	99	96	107	96	90	98	
	00.1	Alouette R2X	-1	92	6	1.8	ST	-	1c	95	94	98	80	91	92	
	00.4	NS EXP004ME3	-1	105	5	1.9	ST	-	1k	102	104	120	103	104	-	
	000.7	Briggs R2X	-1	94	16	2.0	ST	yes	1c	89	97	106	96	88	90	
	00.2	P002A42E	0	95	10	1.9	ST	-	1c	97	90	105	99	91	89	
	00.3	S003-R5X	0	100	22	2.1	ST	-	1c	100	100	100	100	100	100	
	000.7	PV S0009X84	0	101	10	1.8	ST	yes	-	101	101	106	93	93	96	
	00.7	Gecko R2X	0	97	10	2.0	ST	-	1c	87	102	95	92	94	90	
	00.4	B0044EE	1	100	6	2.0	ST	yes	1c	103	98	111	94	102	96	
	00.3	TH85003XF	1	99	6	2.0	ST	yes	1c,3a	102	97	106	93	97	98	
	000.9	Young R2X	1	99	22	1.7	T	yes	1c	98	106	103	99	100	93	
	00.3	P003Z08E	1	95	6	2.2	ST	-	1c	93	98	96	96	95	96	
	00.2	NSC Arden RR2X	1	97	15	1.8	ST	-	1c	106	98	104	105	101	-	
	00.1	BY Hector XT	2	92	10	1.9	ST	-	1c	88	88	94	73	82	85	
	00.5	Hart R2X	2	98	19	1.9	ST	-	1c	104	95	114	96	97	-	
	00.4	NSC Holland RR2X	2	95	13	1.9	ST	-	1c	101	100	104	87	94	-	
	00.1	DKB001-07	3	102	9	1.7	T	yes	1k	100	103	100	97	96	-	
	00.2	TH84002X	3	102	10	1.8	ST	yes	1c	101	96	99	82	100	95	
	Experimental lines that are being tested/proposed for registration in Canada															
		000.7	PR180640-05	-2	98	5	2.0	ST	-	-	97	103	102	93	98	-
		000.7	C4M24518 XT	-2	91	6	2.0	ST	-	1k	94	95	99	91	86	87
		00.3	PR180517X-01-06	-1	85	4	2.3	S	-	1c	86	87	88	-	82	-
	00.6	EXP006-24E3	2	99	5	1.7	T	yes	1k,3a	99	98	114	92	99	-	
	00.1	CP00123WPX	2	102	9	2.1	ST	yes	1c	100	112	103	97	102	100	
	00.6	EXP006-24XF	3	95	5	1.8	ST	yes	1c,3a	97	96	101	92	92	-	
Mid-Season Zone	00.3	BY Deno XT	4	97	10	2.0	ST	yes	1c	99	86	96	81	90	89	
	00.4	Merino R2X	4	98	13	1.7	T	yes	1k	100	102	104	86	96	-	
	00.4	P004Z87E	4	97	6	2.1	ST	-	1c	97	98	106	86	96	100	
	00.3	Oslo XF	4	100	5	1.9	ST	-	-	95	101	105	102	99	-	
	00.3	SI 00323XT	4	105	10	2.0	ST	-	1c	104	105	106	96	98	102	
	00.2	DKB002-32	4	103	15	1.8	ST	yes	1k	107	110	115	98	107	-	
	00.4	Bourke R2X	4	97	18	1.8	ST	-	1k	98	105	107	96	97	-	
	00.2	PV 22s002 R2X	4	97	22	2.0	ST	yes	1k	102	106	86	86	88	91	
	00.7	B0074EE	4	103	6	1.9	ST	-	1c	106	106	104	107	100	99	
	00.6	Badger R2X	5	105	9	1.7	T	-	1k	105	115	103	101	98	98	
	00.4	DKB004-04	5	99	5	1.7	T	yes	1c	107	106	105	79	97	-	
	00.5	PV 16s004 R2X	6	97	18	1.8	ST	yes	1k	98	101	94	97	92	-	
	00.6	Mao R2X	6	104	5	1.7	T	yes	1c	109	108	105	91	104	-	
	00.5	TH84005XF	6	96	8	2.0	ST	yes	1c	91	92	96	82	87	-	
	00.7	P007A68E	6	102	9	1.9	ST	-	1c	100	92	106	89	101	97	
	00.5	TH82005 R2X	7	102	18	1.9	ST	-	1k	112	107	111	102	95	-	
Experimental lines that are being tested/proposed for registration in Canada																
	00.2	PR23X2350	4	101	6	2.0	ST	-	-	108	100	110	98	101	95	
	00.9	PR24XF2450	6	100	5	1.8	ST	-	-	100	102	112	91	99	-	
CHECK CHARACTERISTICS																
	00.3	S003-R5X	119	67	22					79	70	41	59	88	73	
			DTM	bu/ac	site-years					bu/ac						
										CV %	4.0	3.2	5.9	5.7	4.6	5.3
										LSD %	6	5	10	10	7	8
										Sign. Diff.	yes	yes	yes	yes	yes	yes
										Seeding Date	May 29	May 21	May 22	May 16	May 17	May 29
										Harvest Date	Oct 7	Oct 2	Oct 7	Sep 25	Oct 3	Oct 1


† Maturity ratings were averaged across the Dauphin, Hamiota and Melita sites over multiple site years. ‡ Dashes indicate that varieties were not tested at the early sites.

* Ⓢ 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 ♦ 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	91	27	Y	1.9	ST
	00.2	Siberia	-6	93	27	IY	1.9	ST
	00.4	Rosser	-4	97	24	IY	1.9	ST
	00.3	Reynolds	-1	93	26	IY	2.1	ST
	00.3	Liska*	0	100	27	IY	2.3	S
	00.3	Arietta	0	106	8	IY	2.1	ST
	00.4	Abaca*	0	114	22	IY	1.9	ST
Early-Season Zone	Experimental lines that are being tested/proposed for registration in Canada							
	00.2	OT22-04	-3	102	12	Y	2.3	S
	00.2	OT24-03	-2	91	7	IY	2.3	S
	000.7	PR193498C-11	-2	97	4	IY	2.3	S
	00.3	OT24-04	-1	98	7	IY	2.4	S
	00.3	PR193409C-10	-1	96	4	IY	2.0	ST
	00.3	PR193839C-08	0	106	4	IY	2.3	S
	00.7	Koa*	2	101	7	IY	1.9	ST
Mid-Season Zone	00.6	Aurelina*	3	104	21	IY	2.0	ST
	00.7	Dufferin	3	101	11	IY	2.1	ST
	00.6	Maya*	4	89	12	Y	1.9	ST
	00.7	Jago	4	103	20	Y	2.3	S
	00.6	Nala*	4	97	5	Y	2.0	ST
	Experimental lines that are being tested/proposed for registration in Canada							
	00.5	OT20-06	2	107	9	Y	2.3	S
	00.4	OT24-05	2	104	7	IY	1.9	ST
Long-Season Zone	00.8	PR182740-19	2	107	4	Y	2.0	ST
	00.9	Hana	6	99	9	Y	2.1	ST
	00	Stanley	6	102	15	IY	2.1	ST
	Experimental lines that are being tested/proposed for registration in Canada							
00.5	PR182804-02	8	122	3	IY	2.0	ST	
CHECK CHARACTERISTICS								
	00.3	Liska*	119 DTM	52 bu/ac	27 site-years			

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

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

CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA


Manitoba Maturity Zone	Variety	Average DTM +/- Check [†]	2024 Yield % Check						
			Early Sites [†]			Core Sites			
			Arborg	Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe
Very Early-Season Zone	AAC Halli*	-8	94	93	99	103	90	93	97
	Siberia	-6	97	96	103	105	95	89	100
	Rosser	-4	100	97	107	101	100	95	101
	Reynolds	-1	100	96	94	87	88	91	91
	Liska*	0	100	100	100	100	100	100	100
	Arietta	0	109	101	112	128	113	101	102
	Abaca*	0	106	109	125	139	123	111	113
Early-Season Zone	Experimental lines that are being tested/proposed for registration in Canada								
	OT22-04	-3	92	105	102	110	96	105	102
	OT24-03	-2	91	89	97	102	88	85	89
	PR193498C-11	-2	-	-	-	112	96	94	89
	OT24-04	-1	105	99	89	101	96	96	93
	PR193409C-10	-1	-	-	-	115	88	92	90
	PR193839C-08	0	-	-	-	119	105	107	98

continued >

CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION continued

			2024 Yield % Check							
Manitoba Maturity Zone	Variety	Average DTM +/- Check ¹	Early Sites [‡]			Core Sites				
			Arborg	Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	
Mid-Season Zone	Koa*	2	-	-	-	106	111	89	102	
	Aurelina*	3	98	104	102	112	107	98	104	
	Dufferin	3	-	-	-	113	110	92	102	
	Maya*	4	-	-	-	91	90	85	95	
	Jago	4	-	-	-	110	112	97	100	
	Nala*	4	-	-	-	102	103	89	109	
	Experimental lines that are being tested/proposed for registration in Canada									
	OT20-06	2	-	-	-	119	118	105	103	
	OT24-05	2	91	107	108	116	107	106	105	
	PR182740-19	2	-	-	-	117	109	97	106	
Long-Season Zone	Hana	6	-	-	-	112	106	96	100	
	Stanley	6	-	-	-	120	102	104	99	
	Experimental lines that are being tested/proposed for registration in Canada									
PR182804-02	8	-	-	-	142	114	110	-		
CHECK CHARACTERISTICS										
Liska*		119 DTM	75	54	49	44	42	49	57	
		CV %	12.1	7.2	4.3	5.9	6.6	4.5	4.7	
		LSD %	-	12	8	11	11	7	8	
		Sign. Diff.	no	yes	yes	yes	yes	yes	yes	
		Seeding Date	May 23	May 30	May 10	May 23	May 23	May 31	May 23	
		Harvest Date	Oct 2	Oct 3	Oct 1	Oct 9	Oct 1	Oct 8	Sep 28	


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

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

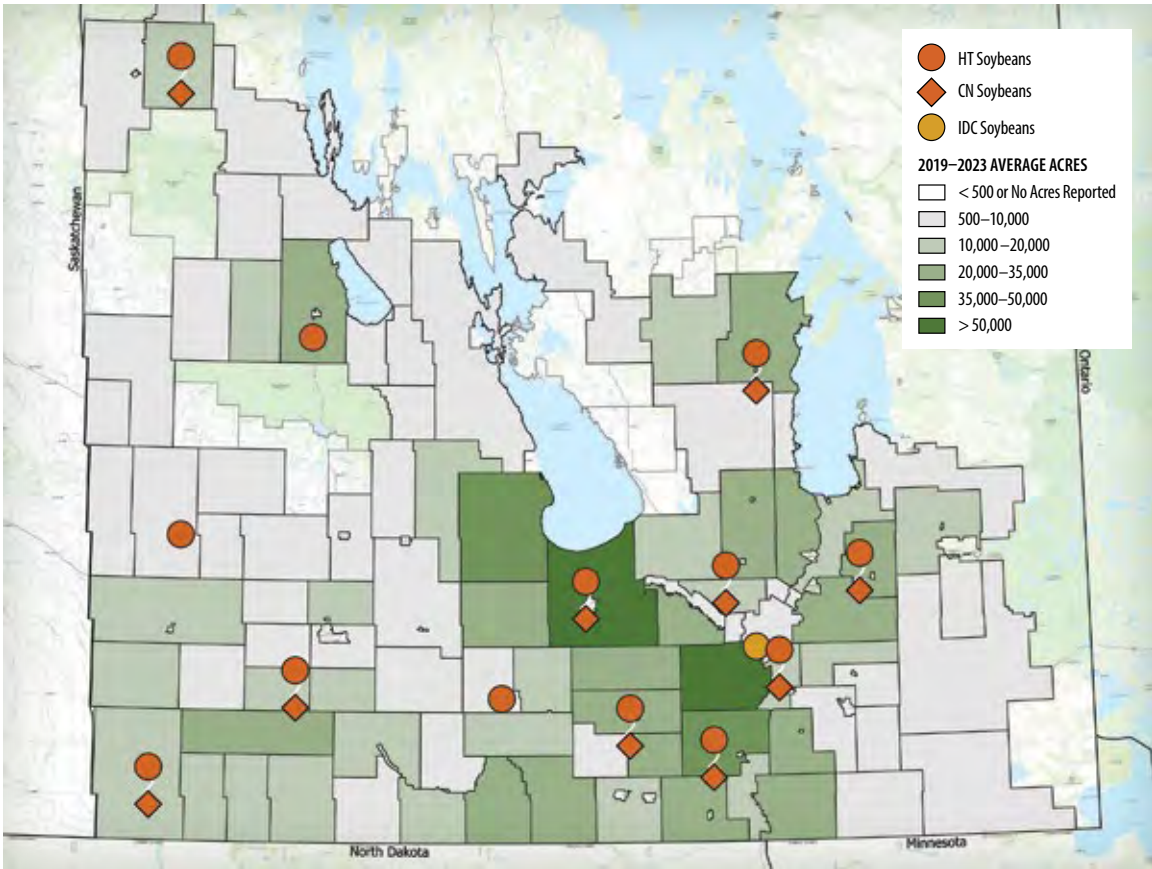
CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION ♦ WESTERN MANITOBA

Manitoba Maturity Zone	Company Maturity Group	Variety	Average DTM +/- Check ¹	Long-Term Yield % Check	Site-Years Tested	Hilum Colour	IDC		2024 Yield % Check	
							Rating (1-5)	Group	Melita	Souris
Very Early-Season Zone	00.2	Ambella	-12	86	10	BR	2.0	ST	83	73
Early-Season Zone	000.9	AAC Halli*	-5	96	14	Y	1.9	ST	108	90
	00.2	Siberia	-3	96	12	IY	1.9	ST	98	96
Mid-Season Zone	00.4	Abaca*	0	106	4	IY	1.9	ST	111	114
	00.3	Liska*	0	100	10	IY	2.3	S	100	100
	00.4	Rosser	0	99	6	IY	1.9	ST	105	98
	Experimental lines that are being tested/proposed for registration in Canada									
00.5	CDC Cedar	-4	99	2	IY	2.1	ST	110	95	
CHECK CHARACTERISTICS										
Liska*		120 DTM	45	10	site-years				50	81
		CV %							6.8	5.5
		LSD %							11	8
		Sign. Diff.							yes	yes
		Seeding Date							May 16	May 17
		Harvest Date							Sep 24	Oct 3

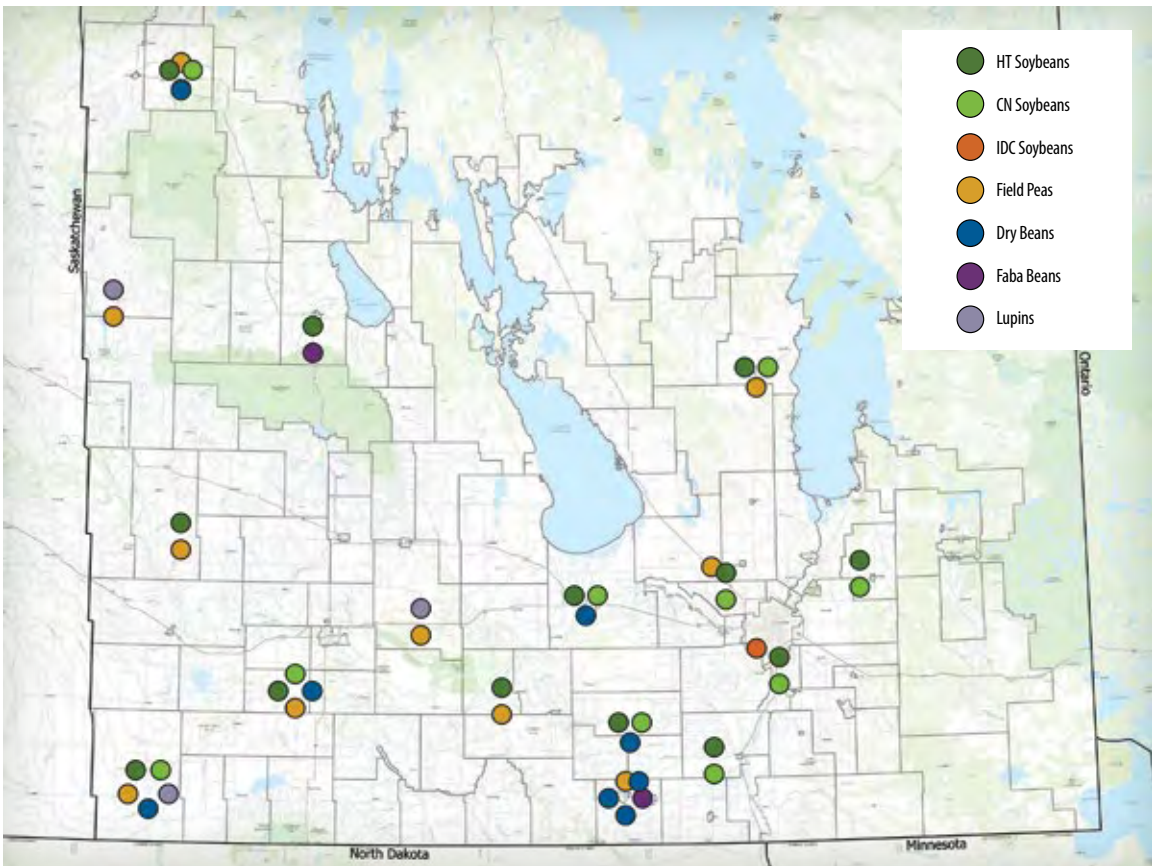
† Maturity ratings were averaged across the Melita and Swan River sites over multiple years. Actual maturity will depend on seasonal growing conditions.

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

2024 REGIONAL SOYBEAN VARIETY TRIALS



2024 REGIONAL PULSE AND SOYBEAN VARIETY TRIALS



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	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 (%)
NAVY	+/- T9905	% T9905								
Valiant	-4	97	11	202	2	62	94	2	11	0
Indi	-3	98	39	181	1	62	95	2	15	0
Armada	-2	102	15	210	2	65	92	2	17	0
Blizzard	-2	100	10	212	2	64	92	2	14	0
HMS Victory	-2	102	17	205	2	61	93	2	15	0
Blast*	-1	115	4	207	2	65	92	–	–	–
AAC Shock	0	93	19	213	2	58	93	2	15	0
OAC Charm	0	85	2	206	2	69	93	1	8	0
SV1893GH*	0	96	19	199	2	64	93	1	11	0
T9905*	0	100	47	202	2	61	92	2	13	0
Steam*	1	120	4	210	2	67	90	–	–	–
OAC Seal*	2	100	6	207	2	64	94	2	10	0
AAC Argosy	3	101	23	208	2	65	89	2	13	0
Liberty	3	103	10	213	2	61	93	–	–	–
Varieties that are registered in the US or being tested or proposed for registration in Canada										
ND Polar	3	108	4	198	2	64	90	–	–	–
CHECK CHARACTERISTICS										
T9905*	103 DTM	2416 lbs/ac	47 site-years							
BLACK	+/- Eclipse	% Eclipse								
CDC Blackstrap*	-6	91	28	214	1	53	90	2	15	0
CDC Superjet	-3	88	40	206	2	54	91	2	18	0
CDC Turtle Mountain*	-4	87	4	231	2	54	89	–	–	–
Umbra*	1	111	4	230	2	62	92	–	–	–
Eclipse**	0	100	56	202	2	60	95	2	17	0
Black Tails	3	103	17	210	2	62	93	3	19	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
Ace	-1	101	9	179	2	57	98	3	14	0
B3033350	-1	101	10	202	2	60	93	2	13	0
B3036381	3	99	10	202	2	60	93	2	15	0
CHECK CHARACTERISTICS										
Eclipse**	99 DTM	2458 lbs/ac	56 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 (%)
PINTO	+/- Vibrant	% Vibrant								
Cowboy*	-1	96	17	350	2	68	89	2	14	0
Windbreaker	0	90	28	373	4	56	71	2	12	0
SV6139GR*	0	98	23	321	2	52	91	2	11	0
Vibrant	0	100	28	337	3	68	83	2	17	0
Bronco	2	83	10	378	4	63	80	2	17	0
Gleam	1	94	11	327	3	64	85	2	13	0
Mystic	4	101	11	384	3	67	87	2	9	0
ND Palomino*	7	94	13	342	3	60	87	2	15	0
Eternal*	9	102	4	344	3	70	80	-	-	-
OAC Sienna	2	93	4	365	3	69	82	-	-	-
Varieties that are registered in the US or being tested or proposed for registration in Canada										
Rustler	-2	87	10	363	3	59	83	2	14	0
USDA Rattler	4	100	6	371	2	63	92	2	10	0
Charro	5	101	10	355	3	68	88	2	15	0
USDA Diamondback	6	85	6	339	2	56	92	2	13	0
MAYOCOBA (YELLOW)	+/- Vibrant	% Vibrant								
CDC Sunburst	0	65	7	376	2	49	94	2	14	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
Claim Jumper	9	76	11	369	3	49	85	2	14	0
CHECK CHARACTERISTICS										
Vibrant	98 DTM	2754 lbs/ac	28 site-years							
GREAT NORTHERN	+/- Pink Panther	% Pink Panther								
Virgo	2	148	11	426	3	65	83	2	15	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
Lyra	-3	129	3	410	3	50	80	3	20	0
Eiger	1	167	7	387	3	64	86	3	15	0
DARK RED KIDNEY	+/- Pink Panther	% Pink Panther								
Rampart	4	112	7	488	2	60	89	3	18	0
Dynasty	5	111	14	552	2	64	88	2	15	0
Gallantry	5	131	8	522	2	62	90	2	17	0
Varieties that are registered in the US or being tested or proposed for registration in Canada										
161156	-2	79	7	450	2	59	85	3	25	0
181021	2	91	7	496	2	58	83	2	11	0
LIGHT RED KIDNEY	+/- Pink Panther	% Pink Panther								
Red Dawn	-6	97	13	515	2	52	90	3	19	0
Big Red	-3	99	31	537	2	56	86	2	22	0
Clouseau	-2	97	17	610	2	52	88	3	27	0
Pink Panther	0	100	64	538	2	57	88	3	20	0
WHITE KIDNEY	+/- Pink Panther	% Pink Panther								
OAC Snowshoe	0	128	4	498	2	63	88	2	15	0
Yeti	9	101	4	459	2	55	92	2	17	0
CHECK CHARACTERISTICS										
Pink Panther	101 DTM	1950 lbs/ac	64 site-years							
CRANBERRY	+/- Krimson	% Krimson								
OAC Navabi	-2	112	7	542	1	56	87	3	25	0
Krimson	0	100	29	540	4	51	76	2	19	0
OAC Firestripe	3	133	7	619	1	59	89	2	23	0
CHECK CHARACTERISTICS										
Krimson	99 DTM	1804 lbs/ac	29 site-years							

These long-term data are based on averaged results from wide-row trials. TSW, Lodging, Plant Height and Pod Height are collected from Carman, Morden, Portage and Winkler, these results are averaged and included in the long-term results. Long-term disease ratings are averaged from Morden. Disease ratings were not conducted in 2024. * 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	2024 Yield % Check			
		Carman	Morden	Portage	Winkler
NAVY	+/- T9905			% T9905	
Valiant	-4	111	82	94	78
Indi	-3	111	83	94	87
Armada	-2	112	106	104	93
Blizzard	-2	112	113	96	91
HMS Victory	-2	107	106	103	93
Blast*	-1	121	120	112	104
AAC Shock	0	93	101	81	85
OAC Charm	0	111	106	105	108
T9905*	0	100	100	100	100
Steam*	1	125	125	117	112
OAC Seal*	2	123	102	92	100
AAC Argosy	3	108	107	92	97
Liberty	3	124	103	103	90
Varieties that are registered in the US or being tested or proposed for registration in Canada					
ND Polar	3	108	116	96	117
CHECK CHARACTERISTICS					
T9905*	103 DTM	2525	2232	2601	1873
		lbs/ac			
	CV %	8.2	9.5	9.1	10.3
	LSD %	15	16	14	16
	Sign. Diff.	yes	yes	yes	yes
	Seeding Date	May 28	May 23	May 31	May 28
	Harvest Date	Oct 3	Sep 25	Oct 4	Oct 3
BLACK	+/- Eclipse			% Eclipse	
CDC Blackstrap*	-6	50	65	75	75
CDC Turtle Mountain*	-4	73	86	99	97
CDC Superjet	-3	82	70	89	75
Eclipse**	0	100	100	100	100
Umbra*	1	102	100	132	115
Black Tails	3	107	102	116	102
Varieties that are registered in the US or being tested or proposed for registration in Canada					
B3033350	-1	85	82	105	95
B3036381	3	90	64	116	107
CHECK CHARACTERISTICS					
Eclipse**	99 DTM	2960	2594	2287	1794
		lbs/ac			
	CV %	8.2	9.5	9.1	10.3
	LSD %	12	14	16	17
	Sign. Diff.	yes	yes	yes	yes
	Seeding Date	May 28	May 23	May 31	May 28
	Harvest Date	Oct 3	Sep 25	Oct 4	Oct 3
PINTO	+/- of Vibrant			% of Vibrant	
Cowboy*	-1	74	93	97	119
Windbreaker	0	64	84	72	88
Vibrant	0	100	100	100	100
Gleam	1	70	108	86	127
Bronco	2	78	95	81	88
OAC Sienna	2	85	104	87	100
Mystic	4	90	111	89	111
Eternal*	9	104	113	84	115
Varieties that are registered in the US or being tested or proposed for registration in Canada					
Rustler	-2	84	98	90	87
Charro	5	96	105	89	107
MAYOCOBA (YELLOW)	+/- Vibrant			% Vibrant	
Varieties that are registered in the US or being tested or proposed for registration in Canada					
Claim Jumper	9	77	36	80	84
CHECK CHARACTERISTICS					
Vibrant	98 DTM	2882	2372	2935	1648
		lbs/ac			
	CV %	10.4	6.7	7.6	10.6
	LSD %	15	11	11	-
	Sign. Diff.	yes	yes	yes	no
	Seeding Date	May 28	May 23	May 31	May 28
	Harvest Date	Oct 3	Sep 25	Oct 4	Oct 3
GREAT NORTHERN	+/- Pink Panther			% Pink Panther	
Virgo	2	161	-	177	-
Varieties that are registered in the US or being tested or proposed for registration in Canada					
Eiger	1	141	-	211	-

continued ▶

DRY BEANS ♦ YIELDS BY LOCATION ♦ WIDE ROW continued

Market Class/ Variety	Average DTM +/- Check	2024 Yield % Check			
		Carman	Morden	Portage	Winkler
DARK RED KIDNEY	+/- Pink Panther			% Pink Panther	
Rampart	4	109	-	124	-
Dynasty	5	129	-	133	-
Gallantry	5	137	-	161	-
Varieties that are registered in the US or being tested or proposed for registration in Canada					
161156	-2	53	-	69	-
181021	2	80	-	102	-
LIGHT RED KIDNEY	+/- Pink Panther			% Pink Panther	
Big Red	-3	93	-	83	-
Pink Panther	0	100	-	100	-
WHITE KIDNEY	+/- Pink Panther			% Pink Panther	
OAC Snowshoe	0	117	-	144	-
CHECK CHARACTERISTICS					
Pink Panther	101 DTM	1839	-	1492	-
				lbs/ac	
	CV %	10.4	-	12.7	-
	LSD %	19	-	28	-
	Sign. Diff.	yes	-	yes	-
	Seeding Date	May 28	-	May 31	-
	Harvest Date	Oct 3	-	Oct 4	-
CRANBERRY	+/- Krimson			% Krimson	
OAC Navabi	-2	152	-	98	-
Krimson	0	100	-	100	-
OAC Firestripe	3	160	-	134	-
CHECK CHARACTERISTICS					
Krimson	99 DTM	1324	-	1749	-
				lbs/ac	
	CV %	10.4	-	12.7	-
	LSD %	27	-	24	-
	Sign. Diff.	yes	-	yes	-
	Seeding Date	May 28	-	May 31	-
	Harvest Date	Oct 3	-	Oct 4	-

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** 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	2024 Yield % Check				
				Portage	Souris	Melita	Morden	
NAVY	+/- CDC Blackstrap	% CDC Blackstrap			% CDC Blackstrap			
Blast*	4	119	4	129	122	103	131	
Steam*	4	120	4	145	116	108	123	
Indi	5	88	19	120	84	91	65	
AAC Shock	7	86	22	104	79	70	94	
OAC Seal*	7	103	6	113	109	96	134	
OAC Charm	8	106	6	125	117	96	131	
AAC Argosy	9	94	17	126	107	84	131	
T9905*	9	92	24	117	114	98	130	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
ND Polar	9	93	4	136	87	77	89	
BLACK	+/- CDC Blackstrap	% CDC Blackstrap			% CDC Blackstrap			
CDC Blackstrap*	0	100	35	100	100	100	100	
CDC Turtle Mountain*	1	108	4	126	108	92	118	
Eclipse**	3	104	23	143	130	97	117	
CDC SuperJet	4	96	29	98	99	81	79	
Umbra*	7	127	4	134	133	106	147	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
B3033350	6	102	9	124	115	104	111	
B3036381	8	95	9	131	114	93	109	
CHECK CHARACTERISTICS								
CDC Blackstrap*	96 DTM	2663 lbs/ac	35 site-years	2057	3344	3537	1808	
					lbs/ac			
				CV %	11.2	6.5	8.0	11.9
				LSD %	22	12	12	22
				Sign. Diff.	yes	yes	yes	yes
				Seeding Date	May 31	May 19	May 21	May 23
				Harvest Date	Oct 4	Oct 3	Sep 24	Sep 25

continued ▶

Market Class/ Variety	Average DTM +/- Check	Long-Term Yield % Check	Site-Years Tested	2024 Yield % Check			
				Portage	Souris	Melita	Morden
PINTO	+/- Windbreaker	% Windbreaker			% Windbreaker		
Windbreaker	0	100	27	100	100	100	100
OAC Sienna	1	110	2	137	95	-	-
Vibrant	2	109	9	118	101	101	106
Eternal*	11	109	4	115	94	89	169
Varieties that are registered in the US or being tested or proposed for registration in Canada							
Bronco	3	89	9	97	80	86	90
Charro	7	104	9	121	93	92	109
CHECK CHARACTERISTICS							
Windbreaker	100	2510	27	2061	4077	3704	2009
	DTM	lbs/ac	site-years	lbs/ac			
			CV %	11.2	6.5	8.0	11.9
			LSD %	22	10	12	20
			Sign. Diff.	yes	yes	yes	yes
			Seeding Date	May 31	May 19	May 21	May 23
			Harvest Date	Oct 4	Oct 3	Sep 24	Sep 25

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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	Low Vicine/ Convicine	Average DTM†	Long-Term Yield % Check	Site-Years Tested	TSW (g/1000 seeds)	2024 Yield % Check	
						Dauphin	Swan River
COLOURED FLOWER (TANNIN)							
Allison*	yes	110	99	8	465	86	78
Dosis*	yes	103	89	5	480	96	78
Fabelle*	yes	111	100	10	492	100	100
Futura*	yes	112	99	5	489	101	93
Victus*	yes	111	93	10	401	99	100
Experimental lines that are being tested/proposed for registration in Canada							
Hammer	yes	100	106	2	444	106	106
CHECK CHARACTERISTICS							
Fabelle*		111	5272	10		6792	3952
		DTM	lbs/ac	site-years		lbs/ac	
					CV %	3.7	11.8
					LSD %	6	18
					Sign. Diff.	yes	yes
WHITE FLOWER (ZERO TANNIN)							
CDC 1089*	yes	110	100	5	386	104	121
CDC 1142*	yes	114	93	5	358	92	107
CDC 1310*	yes	108	99	2	333	93	105
DL Nevado*	yes	107	100	9	421	100	100
Juno*	yes	106	108	5	403	112	115
Navi*	yes	129	105	10	401	105	104
CHECK CHARACTERISTICS							
DL Nevado*		107	4406	9		5916	3069
		DTM	lbs/ac	site-years		lbs/ac	
					CV %	3.7	11.8
					LSD %	6	18
					Sign. Diff.	yes	yes
					Seeding Date	May 6	May 10
					Harvest Date	Aug 27	Sep 6

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

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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 Root Rot – S = susceptible MS = moderately
susceptible I = intermediate MR = moderately resistant
R = resistant

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 Root Rot
YELLOW													
AAC Aberdeen*	Long	101	31	M	250	G	F	F	<i>n/a</i>	VG	VG	F	I
AAC Beyond*	Mid	97	31	M	210	<i>n/a</i>	F	<i>n/a</i>	<i>n/a</i>	G	VG	F	MR
AAC Carver*	Early	100	61	L	240	G	G	G	<i>n/a</i>	G	VG	F	I
AAC Chrome*	Long	105	40	M	240	G	G	G	<i>n/a</i>	G	VG	F	I
AAC Delhi*	Mid	100	28	M	290	G	F	F	<i>n/a</i>	G	VG	F	I
AAC Harrison*	Mid	95	9	L	223	–	G	–	<i>n/a</i>	VG	VG	F	–
AAC Julius*	Mid	97	23	M	210	<i>n/a</i>	G	<i>n/a</i>	<i>n/a</i>	G	VG	F	MR
AAC Lacombe**	Long	98	42	L	270	F	F	G	<i>n/a</i>	G	VG	F	I
AAC McMurphy*	Long	97	17	L	270	G	G	G	<i>n/a</i>	VG	VG	F	MR
AAC Planet*	Long	99	23	L	231	G	F	G	<i>n/a</i>	G	VG	F	MR
AAC Profit**	Mid	99	27	M	230	G	F	G	<i>n/a</i>	G	VG	F	I
Boost*	Early	97	23	M	230	G	VG	G	<i>n/a</i>	G	VG	F	MR
Caphorn*	Long	94	23	M	260	G	G	G	<i>n/a</i>	G	VG	F	MR
CDC 5791-9 ^{VUA}	Long	97	17	L	246	G	VG	G	<i>n/a</i>	G	VG	F	MR
CDC 5845-2 ^{VUA}	Long	99	17	L	236	<i>n/a</i>	G	<i>n/a</i>	<i>n/a</i>	VG	VG	F	MR
CDC Amarillo	Long	98	50	M	230	G	F	F	<i>n/a</i>	VG	VG	F	MR
CDC Citrine*	Mid	102	23	L	230	G	G	G	<i>n/a</i>	G	VG	F	MR
CDC Boundless*	Mid	97	9	L	230	G	G	G	<i>n/a</i>	VG	VG	F	MR
CDC Engage*	Long	99	9	M	233	G	G	G	<i>n/a</i>	VG	VG	F	I
CDC Hickie*	Mid	98	23	M	230	G	G	G	<i>n/a</i>	VG	VG	F	MR
CDC Inca*	Mid	102	48	L	230	F	G	G	<i>n/a</i>	G	VG	F	I
CDC Lewochko*	Long	100	42	L	230	G	G	G	<i>n/a</i>	VG	VG	F	I
CDC Spectrum*	Long	93	42	L	240	G	G	G	<i>n/a</i>	VG	VG	F	I
CDC Tollefson*	Long	104	23	L	240	G	G	G	<i>n/a</i>	VG	VG	F	MR
ProStar ^{VUA}	Early	97	23	M	240	G	VG	G	<i>n/a</i>	G	VG	F	MR
Experimental lines that are being tested/proposed for registration in Canada													
6020-11	Mid	94	9	L	226	<i>n/a</i>	G	<i>n/a</i>	<i>n/a</i>	G	VG	F	MR
6242-1	Long	101	9	L	236	<i>n/a</i>	VG	<i>n/a</i>	<i>n/a</i>	G	VG	F	MR
GREEN													
CDC Forest*	Long	99	34	L	230	<i>n/a</i>	G	G	G	G	VG	F	I
CDC Limerick	Long	94	43	M	210	<i>n/a</i>	VG	G	G	VG	VG	F	I
CDC Rider*	Long	94	32	M	220	<i>n/a</i>	G	G	G	VG	VG	F	MR
CDC Huskie*	Long	99	17	M	220	<i>n/a</i>	G	G	G	G	VG	F	MR
CDC Spruce*	Long	96	19	L	240	<i>n/a</i>	F	F	G	G	VG	F	I
MAPLE													
AAC Lorlie	Long	84	14	M	226	<i>n/a</i>	G	<i>n/a</i>	<i>n/a</i>	G	VG	F	<i>n/a</i>
CHECK CHARACTERISTICS													
AAC Carver*	88	77	61										
	DTM	bu/ac	site-years										
LSD% 4													

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

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

^{VUA} Indicates that variety has a variety use agreement (VUA).

FIELD PEAS ♦ YIELDS BY LOCATION

2024 Yield % Check

Market Class/Variety	Arborg	Carberry	Hamiota	Holland	Melita	Roblin	Souris	Stonewall	Swan River
YELLOW									
AAC Aberdeen*	114	102	96	86	87	99	97	103	103
AAC Beyond*	100	99	98	93	95	95	103	98	95
AAC Carver*	100	100	100	100	100	100	100	100	100
AAC Harrison	96	98	94	91	96	99	103	85	92
CDC Boundless*	110	95	95	93	104	103	92	106	100
AAC McMurphy*	96	98	98	103	88	96	94	89	90
AAC Planet*	121	82	95	92	98	88	106	95	95
Boost*	97	108	94	104	100	95	105	86	90
Caphorn*	110	88	95	96	96	97	91	94	101
CDC Citrine*	103	101	100	84	96	95	107	95	94
CDC Hicki*	95	101	96	73	93	85	106	96	97
CDC 5791-9 ^{VUA}	106	84	104	70	101	96	98	92	84
CDC 5845-2 ^{VUA}	117	101	101	97	98	94	83	99	92
CDC Engage	123	107	101	80	98	105	87	97	95
CDC Tollefson*	116	123	102	100	97	110	108	96	106
ProStar ^{VUA}	108	76	96	104	98	98	106	92	87
Experimental lines that are being tested/proposed for registration in Canada									
6020-11	105	98	104	73	92	94	84	95	90
6242-1	97	93	103	99	103	105	102	104	99
GREEN									
CDC Rider*	92	119	97	83	94	91	88	93	88
CDC Huskie*	109	107	98	93	96	93	86	95	100
CHECK CHARACTERISTICS									
AAC Carver*	77	75	100	61	96	88	83	86	84
	bu/ac								
CV %	8.2	4.1	2.8	11.1	6.0	5.6	6.6	4.5	5.8
LSD %	14	7	5	17	-	9	11	7	9
Sign. Diff.	yes	yes	yes	yes	no	yes	yes	yes	yes
Seeding Date	May 10	May 13	May 5	May 22	Apr 25	May 6	May 11	May 10	May 10
Harvest Date	Aug 19	May 5	Aug 27	Sep 9	Aug 18	Aug 27	Sep 4	Aug 28	Aug 23

* Ⓒ 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 ^{VUA} Indicates that variety has a variety use agreement (VUA). Find more information at seeds-canada.ca/variety-use-agreement.

Varieties of broad-leaved sweet white lupins (*Lupinus albus*), narrow-leaved blue lupins (*L. angustifolius*) and narrow-leaved yellow lupins (*L. luteus*) were tested for the second year in Manitoba. Broad-leaved sweet white lupins are longer-season with indeterminate growth habits, while narrow-leaved blue lupins exhibit determinate growth and require fewer days to maturity. Peas are included in the lupin trials as a comparison since lupins may be expected to yield similarly to field peas.

LUPINS ♦ VARIETY DESCRIPTIONS AND YIELDS BY LOCATION

Market Class/ Variety	Average DTM†	Long-Term Yield % Check	Site-Years Tested	TSW (g/1000 seeds)	Average Height (cm)	Average Lodging Score (1-9)	2023 Yield (bu/ac)		2024 Yield (bu/ac)	
							Melita	Carberry	Melita	Carberry
BLUE										
Boregine	83	-	2	129	44	2	32		32	
Probor	84	-	2	111	41	2	26		29	
Lunabor	83	-	2	122	44	1	36		30	
SWEET WHITE										
Dieta	102	-	2	228	73	1	38		42	
Volos	102	-	2	240	68	1	36		44	
Bonus	102	-	2	232	80	2	42		49	
Snowbird	102	-	2	230	70	1	39		42	
Periwinkle	103	-	2	232	68	1	42		49	
YELLOW										
2112 Yellow	102	-	1	80	40	1	-		27	
FIELD PEAS										
AAC Carver	82	-	2	204	80	-	71		83	
AAC Beyond	86	-	1	170	88	-	-		83	
Boost	93	-	1	212	101	-	-		85	
AAC Chrome	76	-	1	232	66	-	68		-	
CDC Lewochko	76	-	1	203	76	-	61		-	
						CV %	6.9		4.3	
						LSD bu/ac	5		4	
						Sign. Diff.	yes		yes	
						Seeding Date	May 16		May 16	
						Blue, Yellow, Pea Harvest Date	Aug 17		Sep 16	
						White Harvest Date	Sep 8		Sep 27	

† Days to maturity are averaged from Melita in 2023 and Carberry and Melita in 2024.

Average height, lodging score and TSW are averaged from Melita in 2023 and 2024.